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Preface


Oracle Flow Builder is licensed as a feature in Oracle Functional Testing Suite for Oracle Applications.

Audience

This document is intended for Business analysts, QA engineers, and test engineers who will be developing Oracle Flow Builder components and flows for testing a Web site or application. The guide does require an understanding of software or Web/Oracle E-Business Suite application testing concepts. Test engineers using Oracle Flow Builder should be familiar with the concepts of regression testing, load testing, and scalability testing.

The keyword paradigm of Oracle Flow Builder does not require any programming experience to develop scripts for testing. However, the advanced programming features available in Oracle OpenScript scripts do require experience with the Java programming language.

Using This Guide

This guide is organized as follows:

Chapter 1, "Introduction" introduces Oracle Flow Builder and provides an overview of the features and user interface.

Chapter 2, "Setting Up Oracle Flow Builder" explains the requirements, installation, and initial setup of the Oracle Flow Builder application.

Chapter 3, "Defining Components" explains how to add and update components in the Component Tree.

Chapter 4, "Defining Components Sets" explains how to add and update components sets in the Component Set Tree.

Chapter 5, "Defining Flows" explains how to add and update components sets in the Component Set Tree.

Chapter 6, "Using Notifications" explains how to use the Notifications options in the Oracle Flow Builder application.

Chapter 7, "Using History" explains how to use the History options in the Oracle Flow Builder application.
Chapter 8, "Using Reports" explains how to use the Report options in the Oracle Flow Builder application.

Chapter 9, "Administering Oracle Flow Builder" explains how to perform administrative tasks within the Oracle Flow Builder application.

Appendix A, "Keyword Reference" lists the keywords and objects used to specify component code in Oracle Flow Builder.

Appendix B, "Function Library Reference" lists the functions in the default function libraries installed with the Oracle Flow Builder application.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

For more information, see the following documents in the Oracle Application Testing Suite documentation set:

- Oracle Application Testing Suite Release Notes
- Oracle Application Testing Suite Installation Guide
- Oracle Application Testing Suite Getting Started Guide
- Oracle Functional Testing OpenScript Programmer's Reference
- Oracle Load Testing Load Testing ServerStats Guide
- Oracle Test Manager Test Manager User's Guide

Conventions

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td>Convention</td>
<td>Meaning</td>
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<tr>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td>monospace</td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Oracle Flow Builder (OFB) is a Keyword-driven testing application that business analysts and QA engineers use to build business test automation flows. The test automation flows can be translated into executable OpenScript scripts. Technical QA engineers define and implement keywords for the Web/Oracle E-Business Suite application’s components. Business analysts and QA engineers then connect components together to define a larger business process, or "flow" and generate OpenScript scripts to automate testing of the application.

This chapter introduces the Oracle Flow Builder application and provides an overview of the features available. It contains the following sections:

- **About Oracle Flow Builder**
- **Basic Processes**

### 1.1 About Oracle Flow Builder

The Oracle Flow Builder application is a keyword-driven component based testing framework for testing Oracle E-Business Suite applications. Oracle Flow Builder starter kit includes 2100+ components and 200 flows for testing Oracle E-Business Suite.

The application consists of the following features:
The Oracle Flow Builder application consists of the following pages:

- **Home**: shows the logged in users’ Access Rights with options for requesting changes and lists recent notifications and components. Roles and permissions information is also provided.

- **Components**: shows the currently available component tree and provides options for adding new components and defining the keywords and parameters that define the component code.

- **Component Sets**: shows the currently available component sets tree and provides options for adding new component sets that link multiple individual components that are used together frequently in test flows.

- **Flows**: shows the currently available flows tree and provides options for adding new flows that define the sequence of components, component sets, and test data to use to generate test automation scripts.

- **Notifications**: shows the informational and To Do messages generated during use of the Oracle Flow Builder application.

- **History**: provides options for searching the history of components, component sets, flows, and users.

- **Settings**: provides options for specifying the email notification preferences.
- **Reports**: provide options for searching and viewing reports for components, component sets, and flows.
- **Administration**: provides options for setting up the release and product structure within the application, setting up the Email server, managing function libraries, managing approvals, and managing product family access.

### 1.2 Basic Processes

This section describes the main steps involved with using the application after it is installed and the initial setup has been performed.

- An administrator defines the Releases, Product Families, Products, and Features in the Oracle Flow Builder application.
- An administrator sets up user roles and assigns privileges.
- Users request registration from the login page. Upon approval of the user registration, the user will be able to log in and request product family access rights.
- Component developers define components and component code (keywords and parameters) in the component library. Component developers must be very familiar with the application to be tested in order to define components and component code (keywords, objects, and parameters).
- A designated approver approves or rejects component code created by component developers. Designated approvers review the keywords and parameters defined in the component code for accuracy and completeness and approve or reject the code.
- After approval, components become available to be added to component sets and flows.
- Component developers define component sets (groups of components in a set or sequence that can be added to a flow as a group).
- Flow developers create flows by adding components and/or component sets and defining test data for each component in the flow. Flow developers must be familiar with the application to be tested in order to select components and component sets for the flow and define the test data for each component.
- Once a flow is finalized, flow developers set the flow to "assembled" status.
- Flow developers or other testers generate OpenScript code to an OpenScript zip file. The OpenScript zip file can be used in OpenScript to perform functional tests against the application under test.
This chapter explains how to get started using Oracle Flow Builder. This chapter contains the following sections:

- Getting Started
- System Requirements
- Prerequisites
- Installing Oracle Flow Builder
- Initial Setup for Administrators
- Initial Setup for Users

2.1 Getting Started

The following table provides an overview of the Oracle Flow Builder application setup tasks.

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Role</th>
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<tbody>
<tr>
<td>1</td>
<td>Verify the system requirements. See Section 2.2, &quot;System Requirements&quot;</td>
<td>Administrator</td>
</tr>
<tr>
<td>2</td>
<td>Verify the Prerequisites have been meet. See Section 2.3, &quot;Prerequisites&quot;</td>
<td>Administrator</td>
</tr>
<tr>
<td>3</td>
<td>Install the application. See Section 2.4, &quot;Installing Oracle Flow Builder&quot;</td>
<td>Administrator</td>
</tr>
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<td>4</td>
<td>Perform the initial set up. See Section 2.5, &quot;Initial Setup for Administrators&quot;</td>
<td>Administrator</td>
</tr>
<tr>
<td>5</td>
<td>Perform the initial set up. See Section 2.6, &quot;Initial Setup for Users&quot;</td>
<td>Users</td>
</tr>
</tbody>
</table>

2.2 System Requirements

Oracle Flow Builder has the following system requirements:

- OS: Oracle Enterprise Linux version 5.
- CPU: P4 or higher @ 2GHz (Intel Dual core recommended, Intel Xeon Quad core preferred).
Prerequisites

- Memory: 4GB or higher (8GB preferred).
- Free Disk space: 20 GB (50 GB recommended, 200 GB preferred).
- Browser: Firefox 17 ESR.

2.3 Prerequisites

Oracle Flow Builder installer has the following prerequisites:

- An installed and functioning Oracle Database 11g Enterprise Edition (v. 11.2.0.3.0).
- Oracle Enterprise Linux version 5.

2.4 Installing Oracle Flow Builder

This section describes the basic installation procedures required for setting up the database and installing the application.

Oracle Flow Builder requires a functioning database which:

- Is running Oracle Database 11g Enterprise Edition (v. 11.2.0.3.0), which can be accessed from:
  https://updates.oracle.com/Orion/PatchDetails/process_form?patch_num=10404530
- Can be accessed from a remote machine (i.e., connect using the machine hostname instead of using localhost).

---

**Note:** This section provides basic summary steps for installing Oracle Database 11g Enterprise Edition and remote access configuration for use with the Oracle Flow Builder application. These steps are not intended to provide complete database installation instructions. For detailed database installation instructions, see the "Installing Oracle Database" chapter of the Oracle Database Installation Guide 11g Release 2 (11.2) for Linux at the following location:

http://docs.oracle.com/cd/E11882_01/install.112/e47689/toc.htm

---

2.4.1 Installing Oracle Database 11g Enterprise Edition

The Oracle Flow Builder application requires an installed and functioning Oracle Database 11g Enterprise Edition (v. 11.2.0.3.0). If necessary, download and install the database prior to installing the Oracle Flow Builder application.

To download and install Oracle Database 11g Enterprise Edition (v. 11.2.0.3.0):

1. Download the seven zip files from:
   https://updates.oracle.com/Orion/PatchDetails/process_form?patch_num=10404530

2. Extract all seven zip files: p10404530_112030_Linux-x86-64_1of7 through p10404530_112030_Linux-x86-64_7of7.

3. Run ./database/runInstaller.

4. Clear the I wish to receive security updates checkbox and click Next.

5. Click Skip software updates.

6. Select Create and configure a database and click Next.
7. Select **Desktop Class** and click **Next**.

8. Specify the Install Configuration as follows:
   - **Oracle base**: `/scratch/<username>/oracle/oee/app`  
   - **Software location**: `/scratch/<username>/oracle/oee/app/product/11.2.0/dbhome_1` (auto populated).
   - **Database file location**: `/scratch/<username>/oracle/oee/app/oradata` (auto populated).
   - **Database edition**: Enterprise Edition (4.5GB).
   - **Character Set**: Unicode (AL32UTF8).
   - **OSDBA Group**: `dba`.
   - **Global database name**: `orcl.us.oracle.com`.
   - **Administrative password**: `oracle123`.

9. Click **Yes** on the "Admin password entered does not conform to the Oracle standards" dialog box.

10. On Prerequisite Checks, if there are errors, click **Ignore All** and click **Next**.

11. Click **Yes** on the "You have chosen to ignore some of the prerequisites" dialog box.

12. On the Summary page, confirm your entries and click **Install**.

13. If installing the database for the first time, execute the `orainstRoot.sh` script when prompted by the installer then click **OK**, as follows:
   ```
   > sudo <Path to oraInventory>/orainstRoot.sh
   ```
   for example:
   ```
   > sudo /scratch/${USER}/oracle/oee/oraInventory/orainstRoot.sh
   ```

14. Execute the `root.sh` script when prompted by the installer then click **OK** to complete the installation, as follows:
   ```
   > sudo /scratch/<username>/oracle/oee/app/product/11.2.0/dbhome_1/root.sh
   ```
   During the `root.sh` file execution, if you get '/usr/local/bin is read only', then continue without copy.

### 2.4.2 Configuring Oracle Database for Remote Access

The Oracle Database must be configure for remote access to be used with the Oracle Flow Builder application.

To configure Oracle Database for remote access:

1. Modify `tnsnames.ora` and change `localhost` to the fully qualified domain name (FQDN) of the machine where the Database is installed. For example:
   ```
   > sed -i -e 's/localhost/machineName.company.com/g' $ORACLE_HOME/network/admin/tnsnames.ora
   ```

**Note:** If you receive an "Undefined variable" error, verify the `$ORACLE_HOME` environment variable is set or manually enter the full path to Oracle's home directory in place of `$ORACLE_HOME`. 
2. Modify listener.ora and change localhost to the fully qualified domain name (FQDN) of the machine where the Database is installed. For example:

   > sed -i -e 's/localhost/machineName.company.com/g' $ORACLE_HOME/network/admin/listener.ora

3. Stop the Listener and then Start it back up so that the new changes are in effect, as follows:

   > $ORACLE_HOME/bin/lsnrctl stop
   > $ORACLE_HOME/bin/lsnrctl start

4. Restart the database (optional), as follows:

   $> sqlplus
   $> username: SYS AS SYSDBA
   $> password: oracle123
   $> shutdown immediate
   $> startup

2.4.3 Installing the Oracle Flow Builder Application

The Oracle Flow Builder application is installed using the setup script included in the downloaded application zip file.

To install the Oracle Flow Builder application:

1. Download the Oracle Flow Builder zip file from Oracle Technology Network (OTN):


2. Extract the Oracle Flow Builder Zip, as follows:

   > unzip ./OFB_MAIN_GENERIC_xxxxxx.xxxx.S.zip -d /tmp/OFB_MAIN

3. Add execute permission to setup.sh, as follows:

   > chmod 744 /tmp/OFB_MAIN/setup.sh

   **Note:** You may need to add execute permission to other .sh script files also if you receive a "Permission denied" message when running the script.

4. Start the Oracle Flow Builder setup, as follows:

   > /tmp/OFB_MAIN/setup.sh install

5. Enter the configuration information as prompted by the setup script. For example:

   - Enter the Oracle Flow Builder installation directory:
     /scratch/username/oracle/OracleOFB

   - Enter the Administrator Password: oracle123 (or any other password you wish to use as the default administrator account password).

   - Enter the Oracle Flow Builder Server host-name (press enter to accept [auto-detected-hostname]): machineName.company.com

   - Enter Database port (press enter to accept [1521]): 1521.

   - Enter database SID (press enter to accept [orcl]): orcl.
- Enter database admin user name: system.
- Enter database admin Password: oracle123.

After a successful installation, the Oracle Flow Builder will be left in a running state.

6. Open a browser and start the Oracle Flow Builder application using the URL:
   http://machineName.company.com:9090

7. Log in to the application using the default administrator username and password (administrator/password-entered-during-product-installation is the default).

See the Section 2.5, "Initial Setup for Administrators" section for initial setup tasks for the Oracle Flow Builder application. See the Section 2.4.4, "Oracle Flow Builder Server Maintenance" section for additional server options.

2.4.4 Oracle Flow Builder Server Maintenance

The following maintenance functions are available to start, stop, or check the running status of an Oracle Flow Builder application.

- Starting the Oracle Flow Builder Application Server
  Run <ofb-install-dir>/scripts/control.sh start. For example:
  > /scratch/username/oracle/ofb/scripts/control.sh start

- Stopping the Oracle Flow Builder Application Server
  Run <ofb-install-dir>/scripts/control.sh stop. For example:
  > /scratch/username/oracle/ofb/scripts/control.sh stop

- Getting the Oracle Flow Builder Application Server running status
  Run <ofb-install-dir>/scripts/control.sh status. For example:
  > /scratch/username/oracle/ofb/scripts/control.sh status

2.4.5 Deinstalling the Oracle Flow Builder Application

The Oracle Flow Builder application can be completely removed by running the deinstall script located under the scripts folder.

To deinstall the Oracle Flow Builder application:

1. Run <ofb-install-dir>/scripts/deinstall.sh. For example:
   > /scratch/username/oracle/ofb/scripts/deinstall.sh

Deinstalling Oracle Flow Builder only deletes the application files, any user data created on the file system and in the database will not be deleted by the deinstaller.

To remove user files and data:

---

**Caution:** The following steps remove user data from the machine. Be sure you wish to do this before proceeding.

---

- User created files on the file system can be removed by simply deleting the product installation folder.
User created data in the database can be removed by running the following query as a database admin user:

\[ \text{Drop user OFB cascade;} \]

2.5 Initial Setup for Administrators

This section explains the initial setup procedures for a newly installed Oracle Flow Builder. See Chapter 9, "Administering Oracle Flow Builder" for additional information about the administrator tasks and procedures.

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Set up the Email Server.</td>
<td>Administrator</td>
</tr>
<tr>
<td></td>
<td>See Section 9.2.8, &quot;Setting Up Email&quot;</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Review and customize Releases.</td>
<td>Administrator</td>
</tr>
<tr>
<td></td>
<td>See Section 9.2.1, &quot;Setting Up Releases&quot;</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Review and customize Product Families.</td>
<td>Administrator</td>
</tr>
<tr>
<td></td>
<td>See Section 9.2.2, &quot;Setting Up Product Families&quot;</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Review and customize Products.</td>
<td>Administrator</td>
</tr>
<tr>
<td></td>
<td>See Section 9.2.3, &quot;Setting Up Products&quot;</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Review and customize product Features.</td>
<td>Administrator</td>
</tr>
<tr>
<td></td>
<td>See Section 9.2.4, &quot;Setting Up Features&quot;</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Review and customize user roles.</td>
<td>Administrator</td>
</tr>
<tr>
<td></td>
<td>See Section 9.2.5, &quot;Setting Up Roles&quot;</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Add users and specify application roles. Note: Users can also request registration from the login screen. An administrator or other user with an “approver” role would then approve the user registration request.</td>
<td>Administrator/users</td>
</tr>
<tr>
<td></td>
<td>See Section 2.6, &quot;Initial Setup for Users&quot; and Section 9.2.6, &quot;Setting Up Users&quot;</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Optional. Review and customize function libraries.</td>
<td>Administrator</td>
</tr>
<tr>
<td></td>
<td>See Section 9.2.7, &quot;Setting Up Function Libraries&quot;</td>
<td></td>
</tr>
</tbody>
</table>

2.6 Initial Setup for Users

This section explains the basic steps to get started using the Oracle Flow Builder application. The following are the basic steps new users must do to get started using the application:

- **Starting the Application**
- **Registering User Credentials**
- **Changing Passwords**
- **Requesting Product Family Access**

2.6.1 Starting the Application

To start the Oracle Flow Builder application:

1. Launch a Web browser.
2. Enter the URL:

http://<machineName>:9090

Where machineName is the name of the machine where Oracle Flow Builder is installed, such as machine.company.com.

2.6.2 Registering User Credentials

New users can request access to the application by registering a user name and password at the main log in screen. A request will be sent to the specified approver to authorize the user registration and login credentials.

To register user credentials:

1. Start the application to get to the log in screen.

**Figure 2–1  Login Screen**

```
ORACLE ENTERPRISE MANAGER
Flow Builder

Version 12.3.0.1 build 30

Username: [blank]
Password: [blank]
Login
Register | Forgot Password
```

2. Click the Register link.

**Figure 2–2  Register User Options Screen**

```
* User Name
* Full Name
* Email
* Approver: Select Approver
* Password
* Verify

Register

Forgot Password | Back to Login
```

3. Enter the user details, select the Approver, and click **Register**. The User Name must be between 4 and 8 characters. The Confirmation message appears upon successful registration. Once the Approver approves the request, the user can log into the application from the main login screen.
2.6.3 Changing Passwords

Users who are added to the application by an administrator rather than through the Register screen will receive an initial system-generated password via Email to log in to the application. You can change the system-generated password to a new password.

To change a user password:
1. Log in to the application using the username and system-generated password provided.
2. Click the Change Password link at the top of the page.
3. Enter a new password.
4. Confirm the new password.
5. Click OK.

2.6.4 Requesting Product Family Access

First time users must request access rights to specific product families defined within the application.

To request access rights to a product family:
1. Start the application and login with your user credentials.
2. If necessary click the Home link at the top of the page.
3. Select a product family from the Request Access Rights list.
4. Click Request Access. An Access Request notice appears indicating that the request has been sent to the designated approver.
5. Click OK.
6. Repeat steps 3 through 5 to request access to additional product families. You can request access to more than one product family available in the application. However, only one can be requested at a time.
7. Log out of the application until notified by the designated approver that the access rights have been approved. After the designated approver approves the access rights, the Access Rights list shows the Product Families with the Application role assigned to the user after the next log in.

Figure 2–5  Approved Access Rights to Product Families List
3

Defining Components

This chapter explains how to add and update components in the Component Tree. This chapter contains the following sections:

- Overview
- Adding Components
- Updating Components
- Component Development Guidelines

3.1 Overview

The Component Tree represents a library of defined components which can then be added to Component Sets or Flows that specify a test instance. A Component in the Component Tree contains a set of lines of code, which will perform a unique functional action at a given point of time. The lines of code are specified in the component using keywords and parameters that define how to test a particular component in the application under test. A Component should be a single entity. It cannot contain multiple complex dependent functionality.

Components have the following general types:

- **Functional Components**: Components that perform application specific functionality. Validations may or may not be part of these components based on the developed component’s requirement.

- **Validation Components**: Components that perform comparison of expected and actual values. These types of components can also be referred to as check points. Validation components return a Boolean value after the validation is performed.

- **Generic Components**: Components that perform application tasks regardless of the product family.

The Component Tree on the Components page has the following structure:

**Figure 3–1 Component Tree Structure**

```
Release
| Product Family
| Product
| Feature
| Component1
| Componentn
```
An administrator defines the Release, Product Family, Product, and Feature structure of the Component Tree. Users add Components to the tree and define the keywords and parameters that will be used to specify Component Sets and Flows that generate the OpenScript scripts used to test the application under test.

Clicking the **Components** link at the top of the main window shows the Component Tree and Search Component options. The default Component Tree includes two releases, Generic and R12.1.3, as follows:

**Figure 3–2 Default Component Tree**

![Component Tree](image)

Generic components consist of those components that are functions that can be used across all product families. Expanding the Generic tree shows the list of products and features contained in the Generic tree:

**Figure 3–3 Generic Component Tree**

![Component Tree](image)

Release and application specific components are listed below the Release(s) listed in the Components Tree. Expanding the tree shows the list of products and features in the release tree:
Figure 3–4  Release Component Tree

Component Tree

- GENERIC
- R12.1.3
- Customer Relationship Management
- Financials
  - Accounts Payables
    - Invoice
    - Payments
  - Accounts Receivables
- Human Capital Management
- Lease
- Procurement
- Projects
- Supply Chain Management

Note that the list of available product and features may vary based upon your specific installation.

The Search pane of the Components page lets you search for specific components:

Figure 3–5  Search Component Options

You can select the Release, Product Family, Product, Feature, and Component to narrow the search criteria. You can also use the % wildcard character in the Component field to narrow the search:
3.2 Adding Components

This section explains the procedure for adding components to the Component Tree. Components can be added to the Component Tree in the following two ways:

- Creating/uploading component one at a time under each feature. Components can be created directly in the application UI or uploaded from a pre-defined Excel file.
- Using the bulk upload tool to add multiple components.

3.2.1 Adding Individual Components to the Component Tree

This section explains how to use the Component Tree to add an individual component to a product feature.

To add a component to the Component Tree using the application UI:

1. Expand the Component Tree to the product feature where you want to add the component.
2. Right-click the Feature name and select **Create Component** from the shortcut menu.

*Figure 3–7 Create Component Option of the Feature Shortcut Menu*

![Component Tree]

3. In the Component header pane, enter a Component name, Tags and Description.

*Figure 3–8 Component Header Pane*

![Component header]

The component name should be between 5 and 30 characters. The **Component Name is available to create** check mark appears if the name does not currently exist in the database.

4. Click **Attach Code**. The Component Code pane opens for specifying the keywords, objects, and attributes to use to test the component.
Adding Components

5. Set the number of rows to add and click Add Rows.

6. Define the component code by selecting keywords from the Keywords list and specifying any objects, attributes and parameters required for the each keyword added to the component code.

You can also download an Excel spreadsheet template file and specify the component code in the Excel spreadsheet. You can then upload the Excel spreadsheet to the component code pane. See Section 3.2.2, “Uploading Component Code from a Spreadsheet” for additional information about uploading component code from an Excel spreadsheet.

7. Click Save when finished. Any syntax errors will be highlighted.

8. Fix any errors and submit the component for approval by clicking on Submit or Submit for Approval. If your User Role privileges include Approve privileges, the Submit button is displayed instead of Submit for Approval.

The component submitted for approval should be approved by respective Product Family owner before it can be used in a flow.

9. Click Save and Unlock to save and exit the Component Code pane.

3.2.2 Uploading Component Code from a Spreadsheet

This section explains how to upload component code specified in an Excel spreadsheet. The Oracle Flow Builder includes a template Excel spreadsheet file that can be used to specify keywords, objects, and attributes to use to define a component. The Excel spreadsheet can be uploaded to the component code for a component defined in the Component Tree.

1. Expand the Component Tree to the product feature where you want to add the component.

2. Right-click the Feature name and select Create Component from the shortcut menu.

3. In the Component header pane, enter a Component name, Tags and Description. The component name should be between 5 and 30 characters. The Component Name is available to create check mark appears if the name does not currently exist in the database.

4. Click Attach Code. The Component Code pane opens for specifying the keywords, objects, and attributes to use to test the component.

5. Click Download Template.


7. Open and edit the Excel file to define the product information, keywords, objects, attributes and parameters required for the each keyword added to the component code.

8. Save the Excel file as a new name.
9. In the Component Code pane, click **Upload and Populate**.

### Figure 3–10  Upload Component Code Dialog Box

![Upload Component Code Dialog Box](image)

10. Click **Browse** and select the Excel spreadsheet file.
11. Click **Start**.
12. Click **Save**. The system displays syntactical errors, if any.
13. Fix any errors and submit the component for approval by clicking on **Submit** or **Submit for Approval**. If your User Role privileges include Approve privileges, the **Submit** button is displayed instead of **Submit for Approval**.
14. Click **Save and Unlock** to save and exit the Component Code pane.

### 3.2.3 Copying Existing Components

You can copy an existing component to a new component with a new name.

To copy an existing component:

1. Expand the Component Tree to the component that you want to copy.
2. Right-click the component name and select **Copy Component** from the shortcut menu. The component is copied to the clipboard.
3. Expand the Component Tree to the product feature where you want to add the copied component.
4. Right-click the Feature name and select **Paste Component** from the shortcut menu.
5. If you are pasting to the same Product Feature tree or a component with the same name as the copied component exists, enter a new name for the new component and click **Create**.

The component is added to the tree with an In Progress status.

### 3.3 Updating Components

Existing components can be updated to add or remove keywords or change attributes.

To update an existing component:

1. Select the component to update using the Component Tree or the Search Component options.
   - If using the Component Tree, right-click the component to open the shortcut menu:
- If using the Search Component options, the update options appear at the top of the search results pane:

The update options are as follows:
**Update Component Header**: opens the Update Component pane for updating the component header details such as Component name, Tags, and Description.

**View**: opens the Component Code view in read-only format.

**Update Code**: opens the Component Code view for editing keywords and attributes. Component code can be updated in two ways:

- **Update code without versioning**: only Attribute Value, Mandatory, Re-runnable and Display Name fields can be updated. The component modified with **Update code without versioning** option does not require approval.

- **Update code with versioning**: allows full component updating for add, delete, modify, surround, and insert rows with various options. The component modified with **Update code versioning**, it must be submitted for approval.

**Find Usage**: lists all the flows in which the component has been used.

**Delete**: deletes the component from the Component Tree.

**Add to Favourites**: adds components that are frequently used in Flows to the Favourites Tree.

**Copy Component**: copies the component to a new component.

**Detach**: opens the table in a larger view.

2. Select the update option.

### 3.3.1 Updating Component Headers

To update the header information for an existing component:

1. Expand the Component Tree to the component to update.

2. Right-click the component and select **Update Component Header** from the shortcut menu.

**Figure 3–13  Update Component Pane**

![Update Component Pane](image)
3. Update the component header information as needed and click **Save**.

### 3.3.2 Viewing Component Code

To view component code for an existing component:

1. Expand the Component Tree or use the search options to select the component to view.

2. Select **View** from the Component Tree shortcut menu or the search pane.

**Figure 3–14  View Component Code Pane**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Attribute Values</th>
<th>Output Parameter</th>
<th>Function Name</th>
<th>Returnable</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SETSTYLE</td>
<td>Style</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SETWINDOW</td>
<td>*Add Attachment</td>
<td>*Add Attachment</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>SELECT</td>
<td>Add Attachment T</td>
<td>@name=AddAttach</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>WAIT</td>
<td>*Add Attachment</td>
<td>*Add Attachment</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>STARTOPTIONAL</td>
<td>Show More Options</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>STARTKEY</td>
<td>Show More Options</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>CLICK</td>
<td>Show More Options</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>ENDKEY</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>ENDOPTIONAL</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>WAIT</td>
<td>*Add Attachment</td>
<td>*Add Attachment</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>SETTEXT</td>
<td>Description</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>STARTOPTIONAL</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>STARTKEY</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>CLICK</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Use the **View** menu options to re-order columns and select specific columns to view.

4. Click **Detach** to open the component code in a larger view.

5. Click the [X] button to close the component code view when finished.

### 3.3.3 Updating Component Code without Versioning

To update component code without changing the component code version:

1. Expand the Component Tree or use the search options to select the component to update.

2. Select **Update Code without Versioning** from the Component Tree shortcut menu or the search pane.
Only Attribute Value, Mandatory, Re-runnable and Display Name fields can be updated in this pane.

3. Click Save or Save & Unlock after necessary modifications are made. Click Back to Search to exit without saving changes.

### 3.3.4 Updating Component Code with Versioning

To update component code and change the component code version:

1. Expand the Component Tree or use the search options to select the component to update.

2. Select Update Code with Versioning from the Component Tree shortcut menu or the search pane.

---

**Figure 3–16 Update Component Code with Versioning Pane**
This pane allows full component updating for add, delete, modify, surround, and insert rows with various options.

**Adding rows**: specify the number of rows to add in *Rows to Add* and click *Add Rows*. The specified number of rows are added to the end of the table.

**Deleting rows**: select the checkbox for the row to delete and click *Delete* or click the Trash can icon at the end of the row.

**Inserting rows**: select the row where you want to insert a new row before or after. Click the Insert Before or Insert After icon in the *Insert* column of the row.

**Inserting a structure before or after a row**: select the row where you want to insert a new structure. From the *View* menu, select *Insert Structure*, select *Above* or *Below*, then select the type of structure: *Start Optional*, *Start Group*, *Start Iterate*.

**Surrounding a row with a structure**: select the row that you want to surround with a new structure. From the *View* menu, select *Surround With*, then select the type of structure: *Start Optional*, *Start Group*, *Start Iterate*.

3. Click *Save* or *Save & Unlock* after necessary modifications are made. Click *Back to Search* to exit without saving changes.

### 3.3.5 Finding Component Usage

To find the flows in which a component is used:

1. Expand the Component Tree or use the search options to select the component to find usage.
2. Select *Find Usage* from the Component Tree shortcut menu or the search pane.

![Component Usage Window](image)

Use the *View* menu options to show or hide columns, detach the report to a separate view, or reorder the columns.

Use the *Export to Excel* option to save the data to an Excel spreadsheet file.

3. Click the window close button when finished.

### 3.4 Component Development Guidelines

This section provides guidelines for developing component code.
The data sheet that is created in the flow will contain the columns which when populated will generate the code for execution for each component.

- One component cannot be called from any other component.
- Input and output parameters must be specified using GET and SET keywords.
- Any looping construct must be created in generic functions and not in the components.

3.4.1 Component Code

The Component Code defines the keywords, objects, and attributes that define the test actions for the component.

3.4.1.1 Keywords

This section provides guidelines for using Keywords to specify component code.

Setting Application Type and Window

Component creation in the UI should begin with setting the Application Type and Window using the SETAPPTYPE and SETWINDOW keywords to specify the type of application and the window name. The following table shows an example of the component code steps:

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SETAPPTYPE</td>
<td>Web</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SETWINDOW</td>
<td></td>
<td>Login</td>
<td>Login</td>
</tr>
</tbody>
</table>

Step 1 sets the application type as a web application.
Step 2 sets the window to the window with the display name Login and attribute value Login.

Grouping Statements

Statements in component code must be defined within STARTGROUP and ENDGROUP keywords in the following scenario:

Statement 1
Statement a
Statement b
Statement c

If all statements a, b, c need to be executed only if input is provided to Statement 1. The following table shows an example of the component code steps:

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SETAPPTYPE</td>
<td>Web</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SETWINDOW</td>
<td></td>
<td>Login</td>
<td>Login</td>
</tr>
<tr>
<td>3</td>
<td>STARTGROUP</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Step 1 sets the application type as a web application.
Step 2 sets the window to the window with the display name Login and attribute value Login.
Step 3 defines the start of the statement group.
Step 4 specifies a SELECT action which requires test data to select a value in list box.
Step 5 specifies a FUNCTIONCALL. This step does not require any test data to be provided, but is a mandatory step or code to be generated if test data is provided for Step 4.
Step 6 defines the end of the statement group.

**Setting Tab Pages**
Components that have multiple tabs/pages in the application (a simple set of pages, for example, train) should be placed within STARTTAB and ENDTAB keywords in the following scenario:

Statement 1  
Statement 2  
Statement 3  
Statement 4  

If input is provided for any of Statements 2, 3, or 4, then only Statement 1 will be executed.

The STARTTAB and ENDTAB Keyword set can contain any other Keyword combinations. For example, in between STARTTAB and ENDTAB can have a STARTGROUP and ENDGROUP Keyword set or a STARTITERATE and ENDITERATE Keyword set.

The following table shows an example of the component code steps:

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SETAPPTYPE</td>
<td>FORMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SETWINDOW</td>
<td></td>
<td>Purchase Order</td>
<td>PO_HEADER</td>
</tr>
<tr>
<td>3</td>
<td>STARTTAB</td>
<td></td>
<td>Lines</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>CLICK</td>
<td>TAB</td>
<td>Lines</td>
<td>TAB_LINES</td>
</tr>
<tr>
<td>5</td>
<td>SETTEXT</td>
<td>EDIT</td>
<td>Item Description</td>
<td>Item_Description_0</td>
</tr>
<tr>
<td>6</td>
<td>SETTEXT</td>
<td>EDIT</td>
<td>Promise Date</td>
<td>PROMISEDATE_0</td>
</tr>
<tr>
<td>7</td>
<td>ENDTAB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>STARTTAB</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Table 3–2 (Cont.) Keywords for Grouping Statements**

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>SELECT</td>
<td>List</td>
<td>Actions</td>
<td>Actions</td>
</tr>
<tr>
<td>5</td>
<td>FUNCTIONCALL</td>
<td>GENLIB</td>
<td>Refresh List Box</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>ENDGROUP</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Step 1 sets the application type as a FORMS application.
Step 2 sets the window to the window with the display name Purchase Order and attribute value PO_HEADER.
Step 3 defines the start of the Lines tab.
Step 4 clicks the Lines tab if a value is provided for either "Item Description" or "Promised Date". Otherwise it will be skipped.
Steps 5 and 6 set the text for the edit boxes "Item Description" and "Promise Date".
Step 7 defines the end of the Lines tab.
Step 8 defines the start of the More tab.
Step 9 clicks the More tab if a value is provided for "Amount". Otherwise it will be skipped.
Steps 10 sets the text for the edit box "Amount".
Step 11 defines the end of the More tab.

Setting Optional Navigation
Components that have multi-page Next/Submit options for further navigation use the STARTOPTIONAL and ENDOPTIONAL Keyword set. Figure 3–18 shows an example of a component with Next/Submit options:

Figure 3–18  Component with Next/Submit Navigation

The STARTKEY and ENDMETHOD Keywords are required within the STARTOPTIONAL and ENDOPTIONAL Keyword set. Only one statement is required within the STARTKEY and ENDMETHOD keyword set.

The following table shows an example of the component code steps:

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>CLICK</td>
<td>TAB</td>
<td>More</td>
<td>TAB_MORE</td>
</tr>
<tr>
<td>10</td>
<td>SETTEXT</td>
<td>EDIT</td>
<td>Amount</td>
<td>AMOUNT_HEADER</td>
</tr>
<tr>
<td>11</td>
<td>ENDTAB</td>
<td></td>
<td>More</td>
<td></td>
</tr>
</tbody>
</table>

Defining Components  3-15
Step 1 sets the application type as a web application.
Step 2 sets the window to the window with the attribute value "Create Transaction".
Step 3 sets the text for the edit box "Field 1".
Step 4 selects the list box "Field 2".
Step 5 through 10 define the STARTOPTIONAL and ENDOPTIONAL Keyword set for the Next button click.
Step 11 through 16 define the STARTOPTIONAL and ENDOPTIONAL Keyword set for the Submit button click.

**Setting Line Items**
Components that have UI with line items use the STARTITERATE and ENDITERATE Keyword set with the MAXVISIBLELINES and SETLINE Keywords. Figure 3–19 shows an example of a component with line items.

**Figure 3–19 Component with Line Items**

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>CLICK</td>
<td>BUTTON</td>
<td>ClickNext</td>
<td>SUBMIT_NEXT</td>
</tr>
<tr>
<td>8</td>
<td>ENDKEY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>WAIT</td>
<td>WINDOW</td>
<td>Page 2</td>
<td>Login</td>
</tr>
<tr>
<td>10</td>
<td>ENDOPTIONAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>STARTOPTIONAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>STARTKEY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>CLICK</td>
<td>BUTTON</td>
<td>ClickSubmit</td>
<td>SUBMIT</td>
</tr>
<tr>
<td>14</td>
<td>ENDKEY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>WAIT</td>
<td>WINDOW</td>
<td>Page 3</td>
<td>Page 3</td>
</tr>
<tr>
<td>16</td>
<td>ENDOPTIONAL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MAXVISIBLELINES and SETLINE are required within STARTITERATE and ENDITERATE.

- The MAXVISIBLELINES keyword specifies the maximum number of rows visible in the form of the component. The value is set in the "Attribute Value" column. There is no input parameter for this keyword.
- The SETLINE keyword specifies the current line using one input parameter as the "Display Name".
- All lines item functionality UI components that have Attribute value changes such as _0, _1, etc. must be between the STARTITERATE & ENDITERATE Keywords.
The following table shows an example of the component code steps:

### Table 3–5 Keywords for Setting Line Items

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>STARTITERATE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>MAXVISIBLELINES</td>
<td></td>
<td>PO Line Number</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>SETLINE</td>
<td>EDIT</td>
<td>Item Description</td>
<td>ITEM_DESCRIPTION_0</td>
</tr>
<tr>
<td>4</td>
<td>SETFOCUS</td>
<td>EDIT</td>
<td>Type</td>
<td>ITEM_TYPE_0</td>
</tr>
<tr>
<td>5</td>
<td>SETTEXT</td>
<td>EDIT</td>
<td>Category</td>
<td>ITEMCATEGORY_0</td>
</tr>
<tr>
<td>6</td>
<td>SETTEXT</td>
<td>EDIT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>ENDITERATE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Step 1 starts the STARTITERATE/ENDITERATE Keyword set.
Step 2 sets the maximum visible lines in the form.
Step 3 sets the current line to the PO Line Number.
Step 4 set the focus to the Item Description.
Step 5 and 6 set the text in the fields.
Step 7 ends the STARTITERATE/ENDITERATE Keyword set.

### Setting Line Items with Column Search

Components that have UI with line items where column are searched using the STARTITERATE and ENDITERATE Keyword set with the MAXVISIBLELINES and SEARCHCOLUMN Keywords. Figure 3–20 shows an example of a component with line items with searchable columns.

### Figure 3–20 Component with Line Items and Columns

The following table shows an example of the component code steps:

### Table 3–6 Keywords for Setting Line Items with Column Search

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>STARTITERATE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>MAXVISIBLELINES</td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>SEARCHCOLUMN</td>
<td></td>
<td>Requisition</td>
<td>REQUISTION_NUM_0</td>
</tr>
</tbody>
</table>
Component Development Guidelines

Table 3–7  Keywords for Setting Wait for Window

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CLICK</td>
<td>BUTTON</td>
<td>Login</td>
<td>Login</td>
</tr>
<tr>
<td>2</td>
<td>SETWINDOW</td>
<td></td>
<td>Oracle Applications Home page</td>
<td>Oracle Applications Home page</td>
</tr>
<tr>
<td>3</td>
<td>WAIT</td>
<td>WINDOW</td>
<td>Oracle Applications Home page</td>
<td>Oracle Applications Home page</td>
</tr>
</tbody>
</table>

Step 1 clicks the login button.
Step 2 sets the new window.
Step 3 waits for the new window.

Setting Actions on Form Tabs
Component code for form tabs uses the "Display Name" column to specify the visible text on the tab and the "Attribute Value" to specify the @name attribute of the tab.

The following table shows an example of the component code steps:

Table 3–8  Keywords for Setting Actions on Form Tabs

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CLICK</td>
<td>TAB</td>
<td>Include Function</td>
<td>REGIONS</td>
</tr>
</tbody>
</table>

Step 1 clicks the Include Function tab.
Setting Table Name

Components that have UI with an HTML/OAF table are specified using the SETTABLENAME Keyword with the STARTITERATE/ENDITERATE Keywords set and the SETTABLENAME should specify the first row, first column value. If not available, any column in the table.

The HTML/OAF table should be a separate component. Figure 3–21 shows an example of a component with an HTML/OAF table.

![Component with HTML/OAF Table](image)

Display Name: should be the column name of the table.

Attribute Value: should be the column name of the table.

Note: if there is more than one table named "Details", specify the table attribute value as "Details", "Details;1" or "Details;2" depending on the sequence. By default "Details" is Details;0 (index starts from zero).

The following table shows an example of the component code steps:

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Function Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SETTABLENAME</td>
<td>Details</td>
<td>Details</td>
<td></td>
<td>Details</td>
</tr>
<tr>
<td>2</td>
<td>STARTITERATE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>SETLINE</td>
<td>Item Line Number</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>FUNCTIONCALL</td>
<td>GENLIB</td>
<td>*Item Description</td>
<td>WEBSELECTLOV</td>
<td>Search for Item Description</td>
</tr>
<tr>
<td>5</td>
<td>SETTEXT</td>
<td>EDIT</td>
<td>*Quantity</td>
<td></td>
<td>quantity</td>
</tr>
<tr>
<td>7</td>
<td>ENDITERATE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Step 1 sets the table name.

Step 2 starts the STARTITERATE/ENDITERATE Keyword set.

Step 3 sets line number.

Step 4 calls the WEBSELECTLOV function from the GENLIB function library.

Step 5 sets the quantity text.

Step 6 ends the STARTITERATE/ENDITERATE Keyword set.

Setting Table Name and Column Search

Components that have UI with an HTML/OAF table are specified using the SETTABLENAME Keyword with the STARTITERATE/ENDITERATE Keywords set and the SEARCHCOLUMN Keyword. SETTABLENAME should specify the first row, first column value. If not available, any column in the table.
If a combination of search columns is unique, 2 search columns can be specified. For example:

```
SETTABLENAME
STARTITERATE
SEARCHCOLUMN 1st column name as display name
SEARCHCOLUMN 2nd column name as display name
CLICK LINK
ENDITERATE
```

Figure 3–22 shows an example of a component with an HTML/OAF table with columns.

Display Name: should be the column name of the table.

Attribute Value: should be the column name of the table.

Note: if there is more than one table named "Select", specify the table attribute value as "Select", "Select;1" or "Select;2" depending on the sequence. By default "Select" is Select;0 (index starts from zero).

The following table shows an example of the component code steps:

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Function Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SETTABLENAME</td>
<td>Select</td>
<td>Select</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>STARTITERATE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>SEARCHCOLUMN</td>
<td>*Member</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>SEARCHCOLUMN</td>
<td>Position</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>FUNCTIONCALL</td>
<td>GENLIB</td>
<td>*Item Description</td>
<td>WEBSELECTLOV</td>
<td>Search for Item Description</td>
</tr>
<tr>
<td>6</td>
<td>SETTEXT</td>
<td>EDIT</td>
<td>*Quantity</td>
<td></td>
<td>quantity</td>
</tr>
<tr>
<td>7</td>
<td>CHECK</td>
<td>CHECKBOX</td>
<td>Approver</td>
<td></td>
<td>approver</td>
</tr>
<tr>
<td>8</td>
<td>ENDITERATE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Step 1 sets the table name.
Step 2 starts the STARTITERATE/ENDITERATE Keyword set.
Step 3 search for *Member column.
Step 4 search for Position column.
Step 5 calls the WEBSELECTLOV function from the GENLIB function library.
Step 6 sets the Quantity text.
Step 7 sets the Approver checkbox.
Step 8 ends the STARTITERATE/ENDITERATE Keyword set.

**Setting Form Treelists**
Components that have UI with Form treelist objects are specified using the SELECT Keyword specifying the object as TREELIST. Figure 3–23 shows an example of a component with a Form Treelist.

![Component with Forms Treelist](image)

The following table shows an example of the component code steps:

<table>
<thead>
<tr>
<th>Step #</th>
<th>Keyword</th>
<th>Object Type</th>
<th>Display Name</th>
<th>Attribute Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>STARTITERATE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>MAXVISIBLELINES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>SEARCHCOLUMN</td>
<td>Requisition</td>
<td>Requisition</td>
<td>REQUISTION_NUM_0</td>
</tr>
<tr>
<td>4</td>
<td>SEARCHCOLUMN</td>
<td>Line</td>
<td>Line</td>
<td>REQ_LINE_0</td>
</tr>
<tr>
<td>5</td>
<td>CHECK</td>
<td>CHECKBOX</td>
<td>Select REQ Line</td>
<td>SELECT_REQ_LINE_0</td>
</tr>
<tr>
<td>6</td>
<td>SETFOCUS</td>
<td>EDIT</td>
<td>Item</td>
<td>REQ_ITEM_0</td>
</tr>
<tr>
<td>7</td>
<td>ENDITERATE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Step 1 starts the STARTITERATE/ENDITERATE Keyword set.
Step 2 sets the maximum visible lines in the form.

**3.4.1.2 Objects**
Objects specify the type of object on which to perform the keyword action. Specific keywords have specific object types. The list of object types for a keyword will appear in the Object list when the keyword is specified in the component code window. See Appendix A for additional information.
3.4.1.3 Display Name
The Display Name column specifies the text that displays in the UI of the component. The Display Name is mandatory for all action related statements. For example, SETTEXT, CLICK, etc.

3.4.1.4 Attribute Values
The Attribute Values column specifies attribute name-value pairs. For Form objects the default is its name attribute. For example, id=usernamefield, name=USERNAME_0 for web.

If name-value pairs are not provided, the following default attributes are used for each UI component.

Table 3–12 Default Attributes for Object Types

<table>
<thead>
<tr>
<th>Object</th>
<th>Attribute Defaults</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALERT</td>
<td>Web: id, Form: not required</td>
</tr>
<tr>
<td>BUTTON</td>
<td>id</td>
</tr>
<tr>
<td>CHECKBOX</td>
<td>id</td>
</tr>
<tr>
<td>CHOICEBOX</td>
<td>id</td>
</tr>
<tr>
<td>EDIT</td>
<td>name</td>
</tr>
<tr>
<td>FLEXWINDOW</td>
<td>name</td>
</tr>
<tr>
<td>IMAGE</td>
<td>alt</td>
</tr>
<tr>
<td>LINK</td>
<td>text</td>
</tr>
<tr>
<td>LIST</td>
<td>id</td>
</tr>
<tr>
<td>LISTBOX</td>
<td>id</td>
</tr>
<tr>
<td>LOV</td>
<td>Web: alt attribute of the torch icon in the web page, Form: name attribute of the text field on which the List of Values needs to be invoked.</td>
</tr>
<tr>
<td>RADIOBUTTON</td>
<td>id</td>
</tr>
<tr>
<td>TAB</td>
<td>name (display name is mandatory with the visible tab value or you can record and get the text)</td>
</tr>
<tr>
<td>TABLE</td>
<td>all tables are handled through first cell value or first non blank header.</td>
</tr>
<tr>
<td>TEXTAREA</td>
<td>id</td>
</tr>
<tr>
<td>TOOLBAR</td>
<td>none</td>
</tr>
<tr>
<td>TREE</td>
<td>Web: need to check, Form: name</td>
</tr>
<tr>
<td>STATUS</td>
<td>none</td>
</tr>
<tr>
<td>STATUSBAR</td>
<td>none</td>
</tr>
<tr>
<td>WINDOW</td>
<td>Web: title, Form: name</td>
</tr>
</tbody>
</table>

3.4.1.5 Output Parameter
Output parameters must be specified using SET keywords.

3.4.1.6 Function Name
Specifies the name of the function to call when the Keyword FUNCTIONCALL is specified.
3.4.1.7 Mandatory
Specify Yes in this column for all mandatory fields. A No value is the default if this field is left empty.

3.4.1.8 Rerunable
Specify Yes for fields where the value entered should be unique. Specifying Yes for the Rerunnable column for any field appends a random variable to the data passed. The random variable will be preceded with question mark. For example, fields such as Username or Item name, etc. should be unique. There cannot be two users or items with same name.

3.4.1.9 Tooltip
The data provided in this column will be shown as a tooltip to the user during flow creation. The tooltip column is used to provide details such as:

- Field is defaulted
- Field is mandatory
- Field is dependent on other previous fields
This chapter explains how to add and update components sets in the Component Set Tree. This chapter contains the following sections:

- Overview
- Adding Component Sets
- Updating Component Sets
- Deleting Component Sets

4.1 Overview

Component Sets group components that are used together for specific functionality. The Components Set Tree represents a library of defined components sets which can then be added to Flows that specify a test instance. A Component Set in the Component Set Tree contains a set of related components that can be used to quickly build Flows.

The Component Set Tree on the Component Sets page has the following structure:

Figure 4–1 Component Set Tree Structure

```
Release
  - Product Family
    - Product
      - Feature
        - ComponentSet1
        - ComponentSet2
```

A Oracle Flow Builder administrator defines the Release, Product Family, Product, and Feature structure of the Component Set Tree. Oracle Flow Builder users add Components to the tree and define the keywords and parameters that will be used to specify Component Sets and Flows that generate the OpenScript scripts used to test the application under test.

Clicking the Component Sets link at the top of the main window shows the Component Set Tree and Search Component Set options. The default Component Set Tree includes two releases, Generic and R12.1.3, as follows:
Generic components sets consist of those component sets that group functions that can be used across all product families. Expanding the Generic tree shows the list of products and features contained in the Generic tree:

Release and application specific components are listed below the Release(s) listed in the Components Set Tree. Expanding the tree shows the list of products and features in the release tree:

Note that the list of available product and features may vary based upon your specific installation.

The Search pane of the Component Set page lets you search for specific component sets:
Figure 4–5  Search Component Set Options

![Search Component Set](image)

You can select the Release, Product Family, Product, Feature, and Component Set to narrow the search criteria. You can also use the % wildcard character in the Component Set field to narrow the search:

Figure 4–6  Search Component Set Options with Search Criteria

![Search Component Set with Search Criteria](image)

4.2 Adding Component Sets

This section explains the procedure for adding component sets to the Component Sets Tree. Component Sets can be added to the Component Set Tree directly in the application UI.

To add a component set to the Component Set tree:

1. Expand the Component Set Tree to the product feature where you want to add the component set.

2. Right-click the Feature name and select Create Component Set from the shortcut menu.
3. In the Create Component Set pane, enter a Component Set name, Tags and Description.

4. Click Create Structure. The Select Component or Components Set and the New Component Set pane opens for specifying the components or component sets to add to the new component set.
5. Expand the Component or Components Sets tree to view the available components or component sets.

6. Right-click the component or component set to add to the New Component Set and click **Move**. You can also click-and-drag components to the New Component Set tree.

7. Repeat step 6 to add additional components or component sets to the New Component Set as needed.
8. Click Unlock when finished to save and exit the New Component Set pane. The Search pane indicates Publish Component Set Successfully.

4.3 Updating Component Sets

Existing component sets can be updated to add or remove components or component sets from a component set.

4.3.1 Updating Component Set Headers

To update component set header:

1. Expand the Component Set Tree to the component set you want to update.
2. Right-click the Component Set name and select Update Component Set Header from the shortcut menu.

3. In the Update Component Set pane, edit the Component Set name, Tags and Description.
4. Click Save when finished to save and exit the Update Component Set pane. The Search pane indicates Updated Component Set <set name> Successfully.

4.3.2 Adding Components or Component Sets to an Existing Component Set

To add a component or component set to an existing component set:
1. Expand the Component Set Tree to the component set you want to update.
2. Right-click the Component Set name and select Update Component Set from the shortcut menu.

---

Figure 4–13  Update Component Set Pane

![Update Component Set Pane](image)

Figure 4–14  Update Component Set Option of the Shortcut Menu

![Component Set Tree](image)
3. The Select Component or Components Set and the New Component Set pane opens for specifying the components or component sets to add to the new component set.

*Figure 4–15  New Component Set Pane*

<table>
<thead>
<tr>
<th>Select Component or Component Set</th>
<th>New Component Set</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Component (Approved)" /></td>
<td><img src="image" alt="Component Set Structure" /></td>
</tr>
<tr>
<td><img src="image" alt="Component Sets" /></td>
<td><img src="image" alt="doc_sample_component_set" /></td>
</tr>
</tbody>
</table>

4. Expand the Component or Components Sets tree to view the available components or component sets.

*Figure 4–16  Select Component Set Pane with Expanded Components Tree*

5. Expand the New Component Set tree to view the existing components or component sets.
6. Select a component or component set in the New Component Set tree where you want to add the new component or component set.

7. Right-click the component or component set in the Select Component or Component Set tree that you want to add to the New Component Set and click Move Above or Move Below.

8. Repeat step 7 to add additional components or component sets to the New Component Set as needed.
Figure 4–19  New Component Set with Additional Components Added

New Component Set

Component Set Structure

doc_sample_component_set
  Login_OAF
  Navigate_OAF
  Logout_OAF

9. Click Unlock when finished to save and exit the New Component Set pane. The Search pane indicates Publish Component Set Successfully.

4.3.3 Removing Components or Component Set from an Existing Component Set

To remove a component or component set from an existing component set:

1. Expand the Component Set Tree to the component set you want to update.
2. Right-click the Component Set name and select Update Component Set from the shortcut menu.

Figure 4–20  Update Component Set Option of the Shortcut Menu

Component Set Tree

GENERIC
  Automation Tools
    OATS
      EBS FORMS
      doc_sample_component_set
    EBS
  R12.1.3

3. Expand the New Component Set tree to view the existing components or component sets.
4. Right-click the component or component set in the New Component Set tree that you want to remove from the New Component Set and click **Delete**.

5. Click **OK** to confirm.

6. Repeat steps 4 and 5 to remove additional components or component sets from the New Component Set as needed.

7. Click **Unlock** when finished to save and exit the New Component Set pane. The Search pane indicates **Publish Component Set Successfully**.

### 4.4 Deleting Component Sets

To delete component sets from the Component Set tree:

1. Expand the Component Set Tree to the component set you want to remove from the component set tree.

2. Right-click the Component Set name and select **Delete** from the shortcut menu.

3. Click **Yes** to confirm.
4. Click OK.
This chapter explains how to add and update flows in the Flow Tree. This chapter contains the following sections:

- Overview
- Adding Flows
- Updating Flows
- Deleting Flows
- Generating OpenScript Scripts
- Viewing OpenScript Code

5.1 Overview

Flows define the test flow and test data used to generate OpenScript scripts for testing application functionality. The Flow Tree represents a library of Flows that specify test instances.

The Flow Tree on the Flows page has the following structure:

![Flow Tree Structure](image)

A Oracle Flow Builder administrator defines the Release, Product Family, Product, and Feature structure of the Flow Tree. Oracle Flow Builder users add Components to the tree and define the keywords and parameters that will be used to specify Component Sets and Flows that generate the OpenScript scripts used to test the application under test.

Clicking the Flows link at the top of the main window shows the Flow Tree and Search Flows options. The default Flow Tree includes two releases, Generic and R12.2, as follows:
Generic flows consist of those component sets that group functions that can be used across all product families. Expanding the Generic tree shows the list of products and features contained in the Generic tree:

Release and application specific flows are listed below the Release(s) listed in the Flow Tree. Expanding the tree shows the list of products and features in the release tree:

Note that the list of available product and features may vary based upon your specific installation.

The Search pane of the Flow page lets you search for specific flows:
5.2 Adding Flows

This section explains the procedure for adding flows to the Flows Tree. Flows can be added to the Flows Tree directly in the application UI.

To add a flow to the Flows tree:

1. Expand the Flow Tree to the product feature where you want to add the flow.
2. Right-click the Feature name and select *Create Flow* from the shortcut menu.

You can select the Release, Product Family, Product, and Flow to narrow the search criteria. You can also use the % wildcard character in the Flow field to narrow the search.
3. In the Create Flow pane, enter a Flow name, Flow Type, Tags and Description.

4. Click Create Structure. The Select Component or Components Set and the Flow Creation pane opens for specifying the components or component sets to add to the new flow and a new scenario is added to the flow tree. A scenario defines a specific OpenScript child script name within the overall flow. See Section 5.2.1, "Adding Scenarios to a Flow" for additional information about adding scenarios to a flow.
5. Expand the Flow tree and select the scenario where you want to add components or component sets.

6. Expand the Components (Approved), Components (Favourites), or Components Sets tree to view the available components or component sets.
7. Right-click the component or component set to add to the Flow Creation tree and click Move (or click and drag the component or component set to the flow tree).

8. Repeat steps 5-7 to add additional components or component sets to the Flow Creation tree as needed. Select Move Above or Move Below to add the component or component set above or below the currently selected component or component set in the Flow Creation tree.
9. Right-click a component in the Flow and select **Enter Test Data** from the shortcut menu. You can also download a Test Data Excel file for the flow, enter the test data for the flow into the Excel file, then upload the Excel file. See Section 5.2.2, "Entering Test Data Using an Excel File" for additional information about entering test data using an Excel file.
10. Enter the test data required for the component.

The following are guidelines for entering test data for component objects:

- **Rerunnable**: For fields marked Rerunnable in the component code, the test data is entered as "?Value" in the Value column. For example, the test data entered for Username field would be ?RTUser. Rerunnable fields are indicated with an "R" in the R (Rerunnable) column in the test data entry screen.

- **Mandatory**: Test data is mandatory for all fields marked as Mandatory=Yes in the component code. Mandatory fields are indicated with an asterisk in the * (Mandatory) column in test data entry screen.
- **Value field checkbox:** Select the checkbox in value fields if the value is to be passed as a variable. When checked, the text field for the value changes to a list of values (LOV) listing all variable names from previous components in the flow. Variables are appended with sequence number, for example, var1, var2, etc. If data is not provided to any field in "Enter Test Data", the code for that line would not be generated in the OpenScript script.

- **Button objects:** For button object clicks, select True/False. Test data input is required only if the button object keyword is enclosed in Optional tags.

- **Checkbox objects:** For checkbox object clicks, enter True to select the checkbox, False to clear the checkbox. Test data input is required only if the checkbox object keyword is enclosed in Optional tags.

- **Date fields:** For date fields, test data is entered for different date requirements as follows:
  - To empty the value in a Date field enter: #EMPTY
  - To specify the date format as DD_MMM_YYYY enter: #RAND(2_3_4)
  - To add n days to system date enter: #SYSDATE(+n)   Ex. #SYSDATE(+2)
  - To subtract n days to system date enter: #SYSDATE(-n)   Ex. #SYSDATE(-2)
  - To use the System Date enter: #SYSDATE(0)

- **Function calls:** For calls to library functions, the data entered is specific to the function called. See the library reference for additional details.

- **Link objects:** For Link object clicks, select True to click the link. Test data input is required only if the link object keyword is enclosed in Optional tags.

- **Menu selection:** For simple menu selections, enter the menu names separated by the pipe (|) character. For example, File|Open. Test data input is required only if the menu object keyword is enclosed in Optional tags.

- **Navigation (Forms):** To handle navigation to a form from the forms navigator, enter data as follows in the Navigate component:
  
  Security, User, Define

- **Navigation (OAF):** To handle navigation to a form or OAF page with multiple drill menus from the application home page such as: Purchasing, Vision Operations (USA)- Setup-Profile Management Configuration-Organization Encryption, enter data as follows in the Navigate component:
  
  Resp: Purchasing, Vision Operations (USA)
  Menu Path: Setup, Profile Management Configuration
  Menu Choice: Organization Encryption

- **Radio button objects:** For Radio button object clicks, enter True to select the Radio button, False to clear the checkbox. Test data input is required only if the Radio object keyword is enclosed in Optional tags.

- **Text/Text Area objects:** Enter the value to input into the text/textarea field.

- **Wait:** For Wait for all objects: No test data required. Wait uses the default wait time. For Wait > Normal: No test data required. Wait uses the default wait time.

- **Webtable/Forms table-Entry:** For components containing tables in forms / Web, enter test data for "Enter Line Number" or similar Display Name as the
line number where values are to be entered. For example, to enter data for the 1st line in the form or table, enter 1 as the test data.

Figure 5–16  Test Data for Webtable/Forms-Entry

- **Webtable/Forms table-Verify/Update**: For components that require updating a line in a table or performing an action on any element in a table, the test data entered is the unique column name. For example, if the action to perform is check the checkbox in the "Select" column for *Member = Stock, Ms.Pat, then the test data to be entered for the Search column specified as "*Member" is "Stock, Ms Pat".

Figure 5–17  Test Data for Webtable/Forms-Verify/Update

- **WEBSELECTLOV Function**: Test data entry for the WEBSELECTLOV Function corresponds to the following:
11. Click **Save and Close** when finished.

12. Repeat steps 9-11 to enter test data into additional components in the flow.

13. Set the status of the flow as necessary for the current state of development:

   - Click **Unlock** at any time when adding components and entering test data to save and exit the Flow Creation pane. The Search pane indicates *Published Flow Successfully*. The flow is set to In Progress status and can be changed and updated as necessary.

   - Click **Assembled** when finished entering the test data for all the components and exit the Flow Creation pane. The Search pane indicates *Assembled Flow successfully*. The flow is set to Assembled status. When the flow is in Assembled status, the flow cannot be updated or changed. The flow status must be changed to Stabilizing to make any updates. Change the status to Stabilizing by right clicking on the flow name in the flow tree.

When a flow is in Assembled status, it can be evaluated by an Automation Team member who changes the status to Stabilizing. The automation user can update the flow if required. When in the Stabilizing status, the automation user generates and executes the OpenScript scripts and tests if the scripts generated from the flow are executing properly. The automation user determines if changes are required to update the components in the flow and continue stabilizing the flow. Once the automation user stabilizes the flow completely, an Automation POC verifies the flow and OpenScript scripts and changes the flow status to Completed.
Once the flow is in Completed status, if any user clicks on Create / Update flow structure, the flow changes back to In Progress status.

5.2.1 Adding Scenarios to a Flow

When you create a flow structure, a scenario name is automatically created to define the OpenScript child script name. Each scenario in a flow corresponds to an OpenScript child script. A flow may have only one scenario or it can have multiple scenarios depending upon the flow and the automation process the flow designer is developing.

- The number of scenarios in a flow depends upon the user/automation process the flow designer is developing.
- If the flow is small requiring only a few steps (components or component sets) to complete the flow, only one scenario may be required which will create the MASTERDRIVE script and one OpenScript child script. There is no need to add additional scenarios to the flow.
- If the purpose of the flow is to automate multiple functional scenarios in one flow, then the better practice is to break the flow into multiple scenarios (and create multiple OpenScript child scripts) under one flow.
- If a flow is to automate a lengthy end-to-end scenario, the better practice is to break the flow into multiple simple scenarios to make it easier to execute and troubleshoot the OpenScript child scripts, if necessary.
- OpenScript script code is contained in Java ".class" files. There is a technical limitation that a ".class" file cannot exceed a file size of 65536 Bytes. If a scenario in a flow is too large, it is possible for the generated OpenScript script ".class" file to exceed the file size limitation for one script. Use multiple scenarios to break up larger scenarios (and multiple generated OpenScript scripts) to avoid exceeding file size limitations.

To add scenarios to the flow tree:

1. Open the flow tree and select the flow name.
2. Right-click the flow name and select Add New Scenario from the shortcut menu.

Figure 5–19 Add New Scenario Shortcut Menu
3. Enter a scenario name, then press the Tab key. The Scenario Name is available to create check mark appears if the name does not currently exist in the database.

**Figure 5–20 Create Scenario Options**

![Create Scenario](image)

4. Click Yes.

5. Click OK to confirm.

6. Add components and/or component sets to the flow tree under the scenario name.

   When you generate the OpenScript scripts, each scenario name will correspond to an OpenScript child script along with the MASTERDRIVE script.

### 5.2.2 Entering Test Data Using an Excel File

You can enter test data for an entire flow into an Excel file and then upload the Excel file to the flow. The basic steps are as follows:

- Download the test Data Excel file for the flow.
- Enter the test data into the Excel file.
- Upload the test data Excel file to the flow.
- Populate the flow with the test data.

To enter test data for a flow using an Excel file:

1. Create a new flow or search for an existing flow.

2. Select Update Flow Structure.

3. Right-click the flow name in the Flow Creation pane and select Generate & Download Flow Test Data Excel from the shortcut menu.
Updating Flows

4. Select **Save** and specify the location to save the Excel file.

5. Edit the Excel file to enter the test data for the flow and save the Excel file.

6. Right-click on the flow name in the Flow Creation pane and select **Upload Excel and Populate Flow Test Data** from the shortcut menu.

7. Select the Excel file for the flow test data and click **Start**. Close the Browse dialog box after successfully uploading the file. The data will be populated to all components in the flow.

5.3 Updating Flows

Existing flows can be updated to add or remove components or components sets from a flow or change test data.
5.3.1 Updating Flow Headers

To update a flow header:

1. Expand the Flow Tree to the flow you want to update.
2. Right-click the flow name and select Update Header from the shortcut menu.

3. In the Update Flow pane, edit the Release, Product Family, Product, Flow name, Flow Type, Tags and Description.
4. Click **Save** when finished to save and exit the Update Component Set pane. The Search pane indicates *Updated Flow <name> Successfully.*

### 5.3.2 Adding Components or Component Sets to an Existing Flow

To add a component or component set to an existing component set:

1. Expand the Flow Tree to the flow you want to update.
2. Right-click the Flow name and select **Create/ Update Flow Structure** from the shortcut menu.
3. The Select Component or Components Set and the Flow Creation pane opens for specifying the components or component sets to add or update in the Flow.

4. Expand the Components (Approved), Components (Favourites), or Components Sets tree to view the available components or component sets.
5. Expand the Flow Creation tree to view the existing components or component sets.

6. Select a component or component set in the Flow Creation tree where you want to add the new component or component set.

7. Right-click the component or component set in the Select Component (Approved), Select Component (Favourites) or Component Set tree that you want to add to the Flow Creation tree and click Move Above or Move Below.
8. Repeat step 7 to add additional components or component sets to the Flow Creation tree Component Set as needed.

9. Enter Test Data into the components as needed.

10. Click Assemble when finished to change the flow status to Assembled and unlock the flow. The Search pane indicates Assembled Flow Successfully.

11. To change the flow to Stabilizing status, right-click the flow name in Flow Tree and select Set Status to Stabilizing.
5.4 Deleting Flows

To delete flows from the Flow tree:

1. Expand the Flow Tree to the flow you want to remove from the flow tree.
2. Right-click the Flow name and select **Delete** from the shortcut menu.
3. Click Yes to confirm.
4. Click OK.

5.5 Generating OpenScript Scripts

To generate OpenScript script code from an existing flow:

1. Expand the Flow Tree or use the search options to select the flow to use to generate OpenScript code.
2. Select Generate OFT Scripts from the Flow Tree shortcut menu or the search pane.
3. Enter the Execution location folder.
4. Enter the Normal wait time.
5. Enter the Page wait time.
6. Select if the script is rerunable or not.
7. If Rerunable, select the time zone, specify the Rerun type.
8. Select the time zone.
9. Click **Download Suite**.
10. Extract the zip file into the OpenScript repository.
12. Open and playback the MASTERDRIVE script located in the `flowname` folder. The MASTERDRIVE script executes the script containing the OpenScript code for the flow. You can also open the script with the flow code in OpenScript to view the Tree View and Java Code.

### 5.6 Viewing OpenScript Code

To view OpenScript script code from an existing flow:

1. Expand the Flow Tree or use the search options to select the flow to use to view OpenScript code.
2. Select **View OFT Code** from the Flow Tree shortcut menu.
Figure 5–34  View Code Window Showing OpenScript Code for a Flow

3. Select the MASTERDRIVE or flow scenario name from the Select Scenario list to view the OpenScript code for the specific flow.

4. Click the [X] button to close the code view when finished.
This chapter explains how to use the Notifications options in the Oracle Flow Builder application. This chapter contains the following sections:

- Overview
- Searching Notifications
- Viewing Notification Details

6.1 Overview

Notifications provide status information to users and administrators using the Oracle Flow Builder application. Notifications consist of two types: To Do and FYI.

- To Do notifications: include notifications such as Approved, Pending for Approval, Rejected, and Self Approved. These notifications pertain to Components, User creation, or Product Family Access (PFAccess).
- FYI notifications: include notifications such as grant of Product Family Access, approval or rejection of components, and user approval.

Clicking the Notifications link at the top of the main window shows the Search Notifications options.

6.2 Searching Notifications

The Search pane of the Notifications page lets you search for specific notifications:

*Figure 6–1  Search Notifications Options*
Select the Release, Status, Category, User, and Title (or use % wildcard) to narrow the search criteria and click **Search** to view the notifications:

**Figure 6–2 Search Notifications with Search Criteria**

**6.3 Viewing Notification Details**

Notification details provide information about the notification.

To view notification details:

1. From the Notifications page, enter the search criteria and click **Search**.

2. Click the Notification title to view the details.

   - **Component** notifications: details show the Component Details and Component Code Details. Component Details shows the Release, Product Family, Product, Feature, and Component name information.

**Figure 6–3 Component Details**
For Component notifications in a *Pending for Approval* status, the Component Details include options to **Accept** or **Reject** the component and **Find Usages** to locate where a component is used in a flow.

**Figure 6–4  Component Details Actions**

![Component Details Actions](image)

Component Code Details provides a link to open the component code.

**Figure 6–5  Component Code Details**

![Component Code Details](image)

Clicking the link opens the Code Verification window showing the old and new versions of the component code. The approver reviews the code, enters any comments in the comments section and clicks **OK** to approve the code.

**Figure 6–6  Component Verification Window**

![Component Verification Window](image)

- PFAccess notifications: details show the Product Family Access Details including the User Name, Product Family, Email, and Application Role information and Product Family Role Details show the user role.
For PFAccess notifications in a Pending for Approval status, the Product Family Access Details include options to Accept or Reject the access.

For User Registration notifications in a Pending for Approval status, the User Registration Access Details include options to Accept or Reject the access.

Select the Application Role.

For User Registration notifications in a Pending for Approval status, the User Registration Access Details include options to Accept or Reject the access.
Accept or reject the User Registration.
This chapter explains how to use the History options in the Oracle Flow Builder application. This chapter contains the following sections:

- **Overview**
- **Searching and Viewing Component History**
- **Searching and Viewing Component Set History**
- **Searching and Viewing Flow History**
- **Searching and Viewing User History**

### 7.1 Overview

The History page lets you search the history of changes in components, component sets, flows and users.

Clicking the **History** link at the top of the main window shows the History categories and the Search History options.

*Figure 7–1  History Options*

<table>
<thead>
<tr>
<th>History</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Component</td>
</tr>
<tr>
<td>• Component Set</td>
</tr>
<tr>
<td>• Flows</td>
</tr>
<tr>
<td>• User History</td>
</tr>
</tbody>
</table>

Select the history category and specify the search criteria.

### 7.2 Searching and Viewing Component History

Selecting the Component category of the History page shows the Component search options. The Search Component History pane of the History page lets you search for the history of specific components:

To view Component history:

1. Log in and go to the History page.
2. From the **History** categories, select **Components**.
3. Select the Release, Product Family, Product, Feature, and Component name (or use % wildcard) to narrow the search criteria and click Search to view the history of the component:

4. Click the View History link in the View History column to show the details.
A list of actions that may appear in the history of components is as follows:

- **Create**: indicates the component was created for the first time.
- **Updated Header**: indicates updating of the component header.
- **Update Code**: indicates updating of component code.
- **Reverted to Old Version**: indicates changes made but not submitted and the component keyword code was reverted to the previously approved component code.
- **Submit for Approval**: indicates component keyword code was submitted for approval by the Product Family Access owner.
- **Attached Code**: indicates that component code was attached after component creation.
- **Self Approved**: indicates self approval of the component (applicable for Product Family Access owner).
- **Rejected**: indicates rejection of the component (applicable for Product Family Access owner).
- **Delete**: indicates deletion of the component (applicable for Product Family Access owner).
- **Approved**: indicates approval of the component.
- **Saved And Unlocked**: indicates component code was saved and unlocked.

5. Click the Window close button when finished.
7.3 Searching and Viewing Component Set History

Selecting the Component Set category of the History page shows the Component Set search options. The Search Component Set History pane of the History page lets you search for the history of specific component sets:

To view Component Set history:

1. Log in and go to the History page.
2. From the History categories, select Component Set.

3. Select the Release, Product Family, Product, Feature, and Component Set name (or use % wildcard) to narrow the search criteria and click Search to view the history of the component set:

4. Click the View History link in the View History column to show the details.
List of actions that may appear in history of component sets are as follows:

- **Create**: indicates the component set was created for the first time.
- **Updated Structure**: indicates modification of the component set structure.
- **Update**: indicates updating of component set header.

5. Click the Window close button when finished.

### 7.4 Searching and Viewing Flow History

Selecting the Flows category of the History page shows the Flow search options. The Search Flow History pane of the History page lets you search for the history of specific flows:

To view Flow history:

1. Log in and go to the History page.
2. From the **History** categories, select **Flows**.

3. Select the Release, Product Family, Product, and Flow Name (or use % wildcard) to narrow the search criteria and click **Search** to view the history of the flow:
4. Click the View History link in the View History column to show the details.

List of actions that may appear in history of flows are as follows:

- **Create**: indicates the flow was created for the first time.
- **Create Structure**: indicates the flow was created and the flow status is in progress.
- **Update Structure**: indicates updating of the flow structure.
- **Reverted to Old Version**: indicates changes made but not submitted and the component keyword code was reverted to the previously approved component code.
- **Assembled the Flow**: indicates the flow is completed and ready for stabilization.
- **Unlock**: indicates the flow is in progress and unlocked for other users to update.
- **Self Approved**: indicates self approval of the component (applicable for Product Family Access owner).
- **Delete**: indicates deletion of the flow (applicable for Product Family Access owner).
- **Stabilizing the Flow**: indicates the flow is in the process of stabilization.
- **Completed the Flow**: indicates completion of flow (applicable for Product Family Access owner).

5. Click the Window close button when finished.

### 7.5 Searching and Viewing User History

Selecting the User History category of the History page shows the User search options. The Search User History pane of the History page lets you search for the history of specific users:

To view User history:

1. Log in and go to the History page.
2. From the **History** categories, select **User History**.

**Figure 7–11  Search User History Options**

<table>
<thead>
<tr>
<th>Select User</th>
<th>Search</th>
<th>Reset</th>
</tr>
</thead>
</table>

3. Select the User to narrow the search criteria and click **Search** to view the history of the user:

**Figure 7–12  Search Users History with Search Criteria**

<table>
<thead>
<tr>
<th>Select User</th>
<th>Search</th>
<th>Reset</th>
</tr>
</thead>
</table>

List of actions that may appear in history of users are as follows:

- **Create**: indicates the user was created for the first time.
- **Added access**: indicates adding a specific product family access.
- **Updated access**: indicates updating product family access.
- **Deleted access**: indicates deletion of access to a product family.
- **Update**: indicates updating of user details.
- **Approved**: indicates approval of user registration.
This chapter explains how to use the Report options in the Oracle Flow Builder application. This chapter contains the following sections:

- Overview
- Searching and Generating Reports
- Generating Component Reports
- Generating Component Set Reports
- Generating Flow Reports

8.1 Overview

Reports provide statistical information about components, component sets, and flows to users and administrators using the Oracle Flow Builder application. Reports consist of the following types:

- **Component Report**: shows the number of components by status in the selected Release, Product Family, Product, or Feature.
- **Component Sets Report**: shows the total number of components sets in the selected Release, Product Family, Product, or Feature.
- **Flows Report**: shows the number of flows by status and type in the selected Release, Product Family, Product, or Feature.

The data in generated reports can be viewed in table and graphical formats and the data can be exported to Excel spreadsheet files.

Clicking the Reports link at the top of the main window shows the Search Report options.

8.2 Searching and Generating Reports

The Search pane of the Reports page lets you search for and generate reports for specific components, component sets, and flows by Release, Product Family, Product, or Feature:
Select the Type, Release, Product Family, Product, and Feature to narrow the search criteria and click **Search** to generate the report:

Click a value in a report table to show the report details in table format or click **Graphical View** to show the report details in graphical format. **Figure 8–3** shows a sample components report in table format:

Use the **View** menu options to show or hide columns, detach the report to a separate view, or reorder the columns.
Click **Back** to return to the search pane.

Figure 8–5 shows a sample Product Family report in graphical view:

**Figure 8–5 Sample Components by Product Family Report in Graphical View**

![Product Family wise Report](image)

Figure 8–6 shows a sample Component Status report in graphical view:

**Figure 8–6 Sample Component Status Report in Graphical View**

![Status wise Report](image)

Placing the mouse cursor over an element in the graph shows the data details.
8.3 Generating Component Reports

Component reports show the number of Approved, In Progress, Pending for Approval, Unapproved, and Rejected components and the total number of components in the selected Release, Product Family, Product, and Feature.

The following sections explain how to generate specific types of component reports:

8.3.1 Generating a Component Totals Report

A component totals report shows the total number of components in the Oracle Flow Builder database.

To generate a component totals report:

1. Log in and go to the Reports page.
2. Select Component as the search Type setting.
3. Leave or select Select Release as the search Release setting.
4. Leave or select Select Product Family as the search Product Family setting.
5. Leave or select Select Product as the search Product setting.
6. Leave or select Select Feature as the search Feature setting.
7. Click Search. The Component Report table shows the total number of components in the Oracle Flow Builder database and the number of components in each status:

![Component Totals Report in Table View](image)

The Component Totals report is a table only report. There is no graphical view for this report.

8. Click a value in the report to view the component report for a status or the component totals.

![Component Report Details in Table View](image)
9. Click **Export to Excel** to save the data to an Excel spreadsheet file.
10. Click **Back** to return to the search pane.

### 8.3.2 Generating a Component by Product Family Report

A component by product family report shows the number of components in each status for each of the Product Families in a Release.

To generate a component by product family report:

1. Log in and go to the Reports page.
2. Select **Component** as the search **Type** setting.
3. Select a release as the search **Release** setting.
4. Leave or select **Select Product Family** as the search **Product Family** setting.
5. Leave or select **Select Product** as the search **Product** setting.
6. Leave or select **Select Feature** as the search **Feature** setting.
7. Click **Search**. The Component Report tables show the total number of components in the selected Release and the number of components in each status for each Product Family in the Release:

![Figure 8–9 Components by Product Family Report in Table View](image)

8. Click a value in the report to view the component report details for a product family by status or the component totals.
9. Click **Export to Excel** to save the data to an Excel spreadsheet file.
10. Click **Graphical View** to view the data as graphs.

### 8.3.3 Generating a Component by Product Report

A component by product report shows the number of components in each status for each of the Products in a Product Family of a Release.

To generate a component by product report:

1. Log in and go to the Reports page.
2. Select **Component** as the search **Type** setting.
3. Select a release as the search **Release** setting.
4. Select a product family as the search **Product Family** setting.
5. Leave or select **Select Product** as the search **Product** setting.
6. Leave or select **Select Feature** as the search **Feature** setting.
7. Click Search. The Component Report tables show the total number of components in the selected Product Family and the number of components in each status for each Product in the Product Family:

![Figure 8–10 Components by Product Report in Table View](image)

8. Click a value in the report to view the component report details for a product by status or the component totals.

9. Click Export to Excel to save the data to an Excel spreadsheet file.

10. Click Graphical View to view the data as graphs.

### 8.3.4 Generating a Component by Feature Report

A component by feature report shows the number of components in each status for each of the Features of a specific product.

To generate a component by feature report:

1. Log in and go to the Reports page.
2. Select Component as the search Type setting.
3. Select a release as the search Release setting.
4. Select a product family as the search Product Family setting.
5. Select a product as the search Product setting.
6. Leave or select Select Feature as the search Feature setting.
7. Click Search. The Component Report tables show the total number of components in the selected Product and the number of components in each status for each Feature in the Product:

![Figure 8–11 Components by Feature Report in Table View](image)

8. Click a value in the report to view the component report details for a feature by status or the component totals.

9. Click Export to Excel to save the data to an Excel spreadsheet file.

10. Click Graphical View to view the data as graphs.
8.3.5 Generating a Component Report for a Specific Feature

A component report for a specific feature report shows the number of components in each status for the selected Feature of a specific product.

To generate a component report for a specific feature:

1. Log in and go to the Reports page.
2. Select Component as the search Type setting.
3. Select a release as the search Release setting.
4. Select a product family as the search Product Family setting.
5. Select a product as the search Product setting.
6. Select a feature as the search Feature setting.
7. Click Search. The Component Report table shows the total number of components in the selected Feature and the number of components in each status for the selected Feature:

![Component Report for a Specific Feature in Table View](image1)

The Component Report for a specific feature is a table only report. There is no graphical view for this report.

8. Click a value in the report to view the component report details for a feature by status or the component totals.

![Component Report Details for a Specific Feature in Table View](image2)

9. Click Export to Excel to save the data to an Excel spreadsheet file.
10. Click Back to return to the search view.

8.4 Generating Component Set Reports

Component Set reports show the total number of component sets in the selected Release, Product Family, Product, and Feature.

The following section explain how to generate specific types of component reports:

8.4.1 Generating a Component Set Totals Report

A component totals report shows the total number of components in the Oracle Flow Builder database.

To generate a component set report:

1. Log in and go to the Reports page.
2. Select Component Set as the search Type setting.
3. Leave or select Select Release as the search Release setting.
4. Leave or select Select Product Family as the search Product Family setting.
5. Leave or select Select Product as the search Product setting.
6. Leave or select Select Feature as the search Feature setting.
7. Click Search. The Component Set Report table shows the total number of components sets in the Oracle Flow Builder database:

![Component Set Totals Report in Table View](image)

The Component Set Totals report is a table only report. There is no graphical view for this report.

8. Click the value in the report to view the component set report.

![Component Set Report Details in Table View](image)

9. Click Export to Excel to save the data to an Excel spreadsheet file.
10. Click Back to return to the search pane.

### 8.4.2 Generating a Component Set by Product Family Report

A component sets by product family report shows the number of component sets in each of the Product Families in a Release.

To generate a component set by product family report:
1. Log in and go to the Reports page.
2. Select Component Set as the search Type setting.
3. Select a release as the search Release setting.
4. Leave or select Select Product Family as the search Product Family setting.
5. Leave or select Select Product as the search Product setting.
6. Leave or select Select Feature as the search Feature setting.
7. Click Search. The Component Set Report tables show the total number of component sets in the selected Release for each Product Family in the Release:
8. Click a value in the report to view the component set report details for a product family.

9. Click Export to Excel to save the data to an Excel spreadsheet file.

10. Click Graphical View to view the data as graphs.

### 8.4.3 Generating a Component Set by Product Report

A component sets by product report shows the number of component sets for each of the Products in a Product Family of a Release.

To generate a component sets by product report:

1. Log in and go to the Reports page.
2. Select Component as the search Type setting.
3. Select a release as the search Release setting.
4. Select a product family as the search Product Family setting.
5. Leave or select Select Product as the search Product setting.
6. Leave or select Select Feature as the search Feature setting.
7. Click Search. The Component Set Report tables show the total number of component sets in the selected Product Family and the number of component sets in each Product in the Product Family:

![Component Sets by Product Report in Table View](image)

8. Click a value in the report to view the component set report details for a product.

9. Click Export to Excel to save the data to an Excel spreadsheet file.

10. Click Graphical View to view the data as graphs.

### 8.4.4 Generating a Component Set by Feature Report

A component sets by feature report shows the number of component sets in each of the Features of a specific product.
To generate a component set by feature report:

1. Log in and go to the Reports page.
2. Select Component as the search Type setting.
3. Select a release as the search Release setting.
4. Select a product family as the search Product Family setting.
5. Select a product as the search Product setting.
6. Leave or select Select Feature as the search Feature setting.
7. Click Search. The Component Set Report tables show the total number of component sets in the selected Product and the number of component sets in each Feature in the Product:

**Figure 8–18  Component Sets by Feature Report in Table View**

<table>
<thead>
<tr>
<th>Feature Name</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature 1</td>
<td>45</td>
</tr>
<tr>
<td>Add View to Present</td>
<td>0</td>
</tr>
<tr>
<td>Adjust Product</td>
<td>0</td>
</tr>
<tr>
<td>Attribute Management</td>
<td>1</td>
</tr>
<tr>
<td>Copy Modifier</td>
<td>0</td>
</tr>
<tr>
<td>Copy Price List</td>
<td>0</td>
</tr>
<tr>
<td>Create Doc and Search List OA</td>
<td>0</td>
</tr>
<tr>
<td>Create GLA Price</td>
<td>0</td>
</tr>
<tr>
<td>Create Max Lines</td>
<td>0</td>
</tr>
<tr>
<td>Create Modifier Addin Options</td>
<td>0</td>
</tr>
<tr>
<td>Create Modifier From OAP</td>
<td>6</td>
</tr>
<tr>
<td>Create Modifier Header</td>
<td>17</td>
</tr>
<tr>
<td>Create Modifier Lines</td>
<td>0</td>
</tr>
</tbody>
</table>

8. Click a value in the report to view the component set report details for a feature.
9. Click Export to Excel to save the data to an Excel spreadsheet file.
10. Click Graphical View to view the data as graphs.

### 8.4.5 Generating a Component Set Report for a Specific Feature

A component sets for a specific feature report shows the number of component sets for the selected Feature of a specific product.

To generate a component set report for a specific feature:

1. Log in and go to the Reports page.
2. Select Component as the search Type setting.
3. Select a release as the search Release setting.
4. Select a product family as the search Product Family setting.
5. Select a product as the search Product setting.
6. Select a feature as the search Feature setting.
7. Click Search. The Component Set Report table shows the total number of component sets in the selected Feature:

**Figure 8–19  Component Set Report for a Specific Feature in Table View**

<table>
<thead>
<tr>
<th>Feature Name</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature 2</td>
<td>1</td>
</tr>
</tbody>
</table>
The Component Set Report for a specific feature is a table only report. There is no graphical view for this report.

8. Click a value in the report to view the component set report details for a feature.

Figure 8–20 Component Set Report Details for a Specific Feature in Table View

<table>
<thead>
<tr>
<th>Release</th>
<th>Product Family</th>
<th>Feature</th>
<th>Component Set</th>
<th>Tag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERIC</td>
<td>Automation Tools</td>
<td>DATS</td>
<td>F256 GAP</td>
<td>doc_sample_component_set2</td>
<td>a sample component set</td>
</tr>
<tr>
<td>GENERIC</td>
<td>Automation Tools</td>
<td>DATS</td>
<td>F256 GAP</td>
<td>doc_sample_component_set2</td>
<td>a sample component set</td>
</tr>
</tbody>
</table>

9. Click Export to Excel to save the data to an Excel spreadsheet file.

10. Click Back to return to the search view.

8.5 Generating Flow Reports

Flow reports show the number and status of Certification, Very High, High, Low, and Test flow types and the total number of flows in the selected Release, Product Family, Product, and Feature.

The following sections explain how to generate specific types of flow reports:

8.5.1 Generating a Flow Totals Report

A flow totals report shows the status and number of flow in the Oracle Flow Builder database.

To generate a component totals report:
1. Log in and go to the Reports page.
2. Select Flow as the search Type setting.
3. Leave or select Select Release as the search Release setting.
4. Leave or select Select Product Family as the search Product Family setting.
5. Leave or select Select Product as the search Product setting.
6. Leave or select Select Feature as the search Feature setting.
7. Click Search. The Flow Report table shows the total number of flows in the Oracle Flow Builder database and the number of flows in each status:

Figure 8–21 Flows Totals Report in Table View

<table>
<thead>
<tr>
<th>Status</th>
<th>Sanity</th>
<th>Certification</th>
<th>Very High</th>
<th>High</th>
<th>Low</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Started</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>In Progress</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Assessed</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Holding</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Completed</td>
<td>262</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>262</td>
</tr>
<tr>
<td>Total</td>
<td>282</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>282</td>
</tr>
</tbody>
</table>

The Flows Totals report is a table only report. There is no graphical view for this report.

8. Click a value in the report to view the flow report for a status or the flow totals.
8.5.2 Generating a Flows by Product Family Report

A flows by product family report shows the number of flows in each status for each of the Product Families in a Release.

To generate a flows by product family report:

1. Log in and go to the Reports page.
2. Select Flow as the search Type setting.
3. Select a release as the search Release setting.
4. Leave or select Select Product Family as the search Product Family setting.
5. Leave or select Select Product as the search Product setting.
6. Leave or select Select Feature as the search Feature setting.
7. Click Search. The Flows Report tables show the total number of components in the selected Release and the number of flows or each type for each Product Family in the Release:

8. Click a value in the report to view the flow report details for a product family by status or the component totals.
9. Click Export to Excel to save the data to an Excel spreadsheet file.
10. Click Graphical View to view the data as graphs.
11. Click Status wise Report to view the status data for each type of flow in each product family.
The Product Family and Status Report uses the following abbreviations to represent the status of flows of each type in each product family:

- **NS** - Not Started
- **IP** - In Progress
- **AS** - Assembled
- **ST** - Stabilizing
- **C** - Completed
- **T** - Total

12. Click a value in the report to view the flow report details for a product family by status or the flow totals.

13. Click **Export to Excel** to save the data to an Excel spreadsheet file.

14. Click **Back** to return to the previous report view or the search view.

### 8.5.3 Generating a Flows by Product Report

A flows by product report shows the number of flows in each status for each of the Products in a Product Family of a Release.

To generate a flows by product report:

1. Log in and go to the Reports page.
2. Select **Flow** as the search **Type** setting.
3. Select a release as the search **Release** setting.
4. Select a product family as the search **Product Family** setting.
5. Leave or select **Select Product** as the search **Product** setting.
6. Leave or select **Select Feature** as the search **Feature** setting.
7. Click **Search**. The Flows Report tables show the total number of flows in the selected Product Family and the number of flows for each Product in the Product Family:
8. Click a value in the report to view the flow report details for a product by status or the component totals.

9. Click Export to Excel to save the data to an Excel spreadsheet file.

10. Click Graphical View to view the data as graphs.

11. Click Status wise Report to view the status data for each type of flow in each product.

The Product and Status Report uses the following abbreviations to represent the status of flows of each type in each product:

- NS - Not Started
- IP - In Progress
- AS - Assembled
- ST - Stabilizing
- C - Completed
- T - Total

12. Click a value in the report to view the flow report details for a product by status or the flow totals.

13. Click Export to Excel to save the data to an Excel spreadsheet file.

14. Click Back to return to the previous report view or the search view.

### 8.5.4 Generating a Flows by Feature Report

A flow by feature report shows the number of flows in each status for the flows in a specific product.

To generate a flows by feature report:

1. Log in and go to the Reports page.

2. Select Flows as the search Type setting.
3. Select a release as the search **Release** setting.
4. Select a product family as the search **Product Family** setting.
5. Select a product as the search **Product** setting.
6. Leave or select **Select Feature** as the search **Feature** setting.
7. Click **Search**. The Flows Report tables shows the total number of flows in the selected Product and the number of flows in each status in the Product:

![Flows Report in Table View](image)

8. Click a value in the report to view the flows report details.
9. Click **Export to Excel** to save the data to an Excel spreadsheet file.
This chapter explains how to perform administrative tasks within the Oracle Flow Builder application. This chapter contains the following sections:

- **Overview**
- **Setting Up Oracle Flow Builder**
- **Managing Product Family Access**

## 9.1 Overview

This section provides an overview of the administrative tasks within the Oracle Flow Builder application. Administrator tasks can be performed by any user with administrator user privileges. However, the administrator user defined during setup of the application performs the initial administrative tasks. The administrative tasks include the following tasks:

- Setup - define the Release, Product Family, Product, and Features hierarchy of the Component Tree. Define user roles and users. Users can also request registration from the Oracle Flow Builder login pane.
- Product Family Access Controls - manage user access to specific product families.
- Tools - import advanced pack

Follow these steps to access the administrative options within the Oracle Flow Builder application:

1. Log in to Oracle Flow Builder using Administrator credentials.
2. Click **Administration** at the top of the Home page.
9.2 Setting Up Oracle Flow Builder

An Administrator defines and manages the component tree hierarchy and users and user roles set up. The following tasks are performed by an administrator:

- Setting Up Releases
- Setting Up Product Families
- Setting Up Products
- Setting Up Features
- Setting Up Roles
- Setting Up Users
- Setting Up Function Libraries
- Setting Up Email
9.2.1 Setting Up Releases

This section explains the procedures for administering the Releases within Oracle Flow Builder. Releases are the top level of the Component Tree hierarchy within the Oracle Flow Builder application.

9.2.1.1 Adding Releases

Follow these steps to add a new Release to the Component Tree:

1. Log in using Administrator credentials and go to the Administration page.
2. From Setup, click Releases.
3. Click Add to define the name and description of the Release to make available in the Component Tree.

4. Define the Release name and description.
5. Optionally, enter the path to a custom function library.
6. Select the product family or families to include under the Release in the Component Tree hierarchy and click **Save**.

### 9.2.1.2 Copying Releases

Follow these steps to copy an existing Release to a new Release in the Component Tree:

1. Log in using Administrator credentials and go to the Administration page.
2. From **Setup**, click **Releases**.
3. Click **Copy** to define the name of the new Release and which Release to copy from and make available in the Component Tree.

![Copy Release Options](image)

4. Define the new Release name.
5. Select the Release to copy from and click **Save**. Copying an existing release may take some time depending upon how many components, component sets, and flows are defined in the Release being copied.

   After clicking the **Save** button, the UI shows a waiting icon until the copy operation finishes. No other operation is allowed. When the Search Release page returns, it indicates the copy operation is finished.

   If you open Oracle Flow Builder in another instance of Explorer or another user opens an Explorer instance and attempts to copy a release at the same time, an error appears indicating there is a Copy Release procedure still running, and they must wait until it is finished.

6. After the copy operation finishes, log out of the Oracle Flow Builder application and log back in as an administrator to view the copied release structure.

### 9.2.1.3 Updating Releases

Follow these steps to update a Release in the Component Tree:

1. Log in using Administrator credentials and go to the Administration page.
2. From **Setup**, click **Releases**.
3. Enter the name of the Release (or use % wildcard) and click **Search** to list currently defined Releases.

4. Click the **Update** icon to view the Release information.

*Figure 9-4 Update Release Options*

<table>
<thead>
<tr>
<th>Update Release</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Release</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
</tbody>
</table>

5. Edit the Release information and click **Save**.

6. Select the product family or families to include in the Component Tree hierarchy and click **Save**.

### 9.2.2 Setting Up Product Families

This section explains the procedures for administering the Product Families within Oracle Flow Builder. Product Families are defined to categorize the products and features in a Release hierarchy within the Component Tree.

#### 9.2.2.1 Adding Product Families

Follow these steps to add a new Product Family to a Release in the Component Tree:

1. Log in using Administrator credentials and go to the Administration page.

2. From **Setup**, click **Product Families**.

3. Click **Add** to define the Product Family to make available in the Component Tree.
4. Define the Product Family Name and Product Family Full Name.
5. Select the Release(s) and click Save.

9.2.2.2 Updating Product Families
Follow these steps to update a Product Family in the Component Tree:
1. Log in using Administrator credentials and go to the Administration page.
2. From Setup, click Releases.
3. Enter the name of the Product Family (or use % wildcard) and click Search to list currently defined Product Families.
4. Click the Update icon to view the Product Family information.
5. Edit the Product Family information and click Save.

9.2.3 Setting Up Products

This section explains the procedures for administering the Products within Oracle Flow Builder. Products are defined to categorize the features in a Product Family hierarchy within the Component Tree.

9.2.3.1 Adding Products

Follow these steps to add a new Product to a Product Family in the Component Tree:

1. Log in using Administrator credentials and go to the Administration page.
2. From Setup, click Products.
3. Click Add to define the Product to make available in the Component Tree.

4. Select the Release.
5. Select the Product Family.
6. Define the Product Name and Product Full Name and click Save.

9.2.3.2 Updating Products

Follow these steps to update a Product in the Component Tree:

1. Log in using Administrator credentials and go to the Administration page.
2. From Setup, click Products.
4. Select the Product Family.
5. Enter the name of the Product (or use % wildcard) and click **Search** to list currently defined Products.

6. Click the **Update** icon to view the Product information.

**Figure 9–8  Update Product Options**

![Update Products](image)

7. Edit the Product information and click **Save**.

### 9.2.4 Setting Up Features

This section explains the procedures for administering the Features within Oracle Flow Builder. Features define specific features of a Product to test within the Component Tree.

#### 9.2.4.1 Adding Features

Follow these steps to add a new Feature to a Product in the Component Tree:

1. Log in using Administrator credentials and go to the Administration page.
2. From **Setup**, click **Features**.
3. Click **Add** to define the Feature to make available in the Component Tree.

**Figure 9–9  Add Feature Options**

![Add Feature](image)

4. Select the Release.

5. Select the Product Family.

6. Select the Product.

7. Define the Feature Name and Feature Full Name and click **Save**.
9.2.4.2 Updating Features

Follow these steps to update a Feature in the Component Tree:

1. Log in using Administrator credentials and go to the Administration page.
2. From Setup, click Features.
4. Select the Product Family.
5. Select the Product.
6. Enter the name of the Feature (or use % wildcard) and click Search to list currently defined Products.
7. Click the Update icon to view the Feature information.

Figure 9–10  Update Feature Options

8. Edit the Feature information and click Save.

9.2.5 Setting Up Roles

This section explains the procedures for administering the user roles within Oracle Flow Builder. User Roles specify the categories of users and the specific permissions assigned to each user role.

9.2.5.1 Adding Roles

Follow these steps to add a new user role to the Oracle Flow Builder application:

1. Log in using Administrator credentials and go to the Administration page.
2. From Setup, click Roles.
3. Click Add to define the user role name and role actions assigned to that role.
4. Define the Role name.

5. Select the Role Actions to assign to the user role.

**Table 9–2  User Role Actions**

<table>
<thead>
<tr>
<th>Role Action</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upload</td>
<td>Permission to upload files.</td>
</tr>
<tr>
<td>Unlock</td>
<td>Permission to unlock components.</td>
</tr>
<tr>
<td>Change PF Access</td>
<td>Permission to change access to Product Families.</td>
</tr>
<tr>
<td>Create</td>
<td>Permission to create components and flows.</td>
</tr>
<tr>
<td>Delete</td>
<td>Permission to delete components and flows.</td>
</tr>
<tr>
<td>Approve</td>
<td>Permission to approve component changes.</td>
</tr>
<tr>
<td>UCC</td>
<td>Permission to Update Component Code.</td>
</tr>
<tr>
<td>UCH</td>
<td>Permission to Update Component Headers.</td>
</tr>
<tr>
<td>UFS</td>
<td>Permission to Update Flow Structures.</td>
</tr>
<tr>
<td>UFH</td>
<td>Permission to Update Flow Headers.</td>
</tr>
<tr>
<td>UCSS</td>
<td>Permission to Update Component Set Structures.</td>
</tr>
<tr>
<td>UCSH</td>
<td>Permission to Update Component Set Headers.</td>
</tr>
<tr>
<td>SF</td>
<td>Permission to Stabilizing Flows.</td>
</tr>
</tbody>
</table>
6. Click **Save** to add the user role.

### 9.2.5.2 Updating Roles

Follow these steps to update user role in the Oracle Flow Builder application:

1. Log in using Administrator credentials and go to the Administration page.
2. From **Setup**, click **Roles**.
3. Enter the name of the Role (or use % wildcard) and click **Search** to list currently defined Roles.
4. Click the **Update** icon to view the Role information.

#### Figure 9–12 Update Role Options

![Update Role](image)

5. Edit the Role information and click **Save**.

### 9.2.6 Setting Up Users

This section explains the procedures for administering the users within Oracle Flow Builder.
9.2.6.1 Adding Users
Follow these steps to add a new user to the Oracle Flow Builder application:

1. Log in using Administrator credentials and go to the Administration page.
2. From Setup, click Users.
3. Click Add to define the user information.

Figure 9–13  Add User Options

Add User

<table>
<thead>
<tr>
<th>User ID (GUID Only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Name</td>
</tr>
<tr>
<td>Email</td>
</tr>
<tr>
<td>Application Role</td>
</tr>
</tbody>
</table>

4. Define the User ID, full name, and email.

Note: Make sure the email server has been set up before adding users. An email notification will be sent to newly added users specifying the initial password to use to log in to the application. See Section 9.2.8, "Setting Up Email" for additional information.

5. Select the Application Role to assign to the user.

Table 9–3  Application Roles

<table>
<thead>
<tr>
<th>Role Action</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin</td>
<td>The user has an Administrator role.</td>
</tr>
<tr>
<td>Approver</td>
<td>The user has an Approver role.</td>
</tr>
<tr>
<td>Contributor</td>
<td>The user has a Contributor role.</td>
</tr>
<tr>
<td>Member</td>
<td>The user has a Member role.</td>
</tr>
</tbody>
</table>

6. Click Save to add the user.

9.2.6.2 Updating Users
Follow these steps to update users in the Oracle Flow Builder application:

1. Log in using Administrator credentials and go to the Administration page.
2. From Setup, click Users.
3. Enter the ID or name of the User (or use % wildcard) and click Search to list currently defined Users.
4. Click the Update icon to view the User information.
5. Edit the User information and click **Save**.

### 9.2.7 Setting Up Function Libraries

This section explains the procedures for administering function libraries within Oracle Flow Builder. Function libraries define the built in and custom functions used with the FUNCTIONCALL keyword to perform specific tasks within component code.

The Oracle Flow Builder application includes a set of function libraries that can be used for specific testing purposes. The following table lists the default function libraries included with the application:

<table>
<thead>
<tr>
<th>Library</th>
<th>Related Application/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cRMLIB</td>
<td>Default function library for Customer Relationship Management application components.</td>
</tr>
<tr>
<td>eBSLibrary</td>
<td>Default function library for E-Business Suite application components.</td>
</tr>
<tr>
<td>gENLIB</td>
<td>Default function library for generic application components.</td>
</tr>
</tbody>
</table>
See Appendix B, "Function Library Reference" for details about the functions available in each function library.

### 9.2.7.1 Setting Up a Function Library Repository in OpenScript

The Oracle Flow Builder function libraries must be added to the OpenScript installation that users will use to playback functional testing scripts generated by Oracle Flow Builder. The function libraries are added to the repository where the generated Oracle Flow Builder script files will unzipped and executed. This is a one-time setup procedure required for each and any OpenScript installation that will be used to execute Oracle Flow Builder generated functional test scripts in OpenScript.

**Note:** Function libraries shipped with Oracle Flow Builder are included in the product download zip file in the following location:

`<OFB-install-files>/common/install/static/libs/function-libs.zip`

To set up a function library repository in OpenScript:

1. Start OpenScript.
2. From the Tools menu, select Manage Repositories.
3. Click Add.
4. Enter OATS as the Name.
5. Enter `<any-location-on-disk>` as the Location.
6. Click OK.
7. Copy the function libraries (function-libs.zip) included with the Oracle Flow Builder download zip to the OATS Repository folder and unzip the file.

### 9.2.7.2 Searching Function Libraries

Follow these steps to search function libraries used with the Oracle Flow Builder application:

1. Log in using Administrator credentials and go to the Administration page.
2. From Setup, click Function Library.
3. Select the Match type: All or Any.
4. Select a function library or leave blank to search all libraries.
5. Enter all or part of a function name (or use % wildcard) and click Search to list functions within the library.

9.2.7.3 Creating a Function Library Script
Creating a function library requires that you have the OpenScript component of the Oracle Application Testing Suite installed on a Windows machine. This section provides the basic steps for creating a custom dedicated function library script for use in the Oracle Flow Builder application. See the Oracle Functional Testing OpenScript User’s Guide for additional information about creating function library scripts and adding functions.

To create a dedicated function library script:
1. Start OpenScript.
2. Select New from the File menu.
3. Select the project type and click Next.
4. Enter a script name for the function library (for example, myScriptLib).
5. Select Create script as a Function Library.
6. Click Next. The script wizard opens the Create Function Library options:
   - **Package**: Specifies a unique Package name for the function library. Package must be a valid Java Package name that matches A-Z, a-z, 0-9, _. It must not contain spaces or Double-Byte Character Sets (DBCS). The initial default value is myCompany.myTeam. Subsequently, the default value will be set to the last value specified.
   - **Class**: Specifies a unique alias to use as the name (typically the Class name) for the function library script. Class must be a valid Java Class name that matches A-Z, a-z, 0-9, _. It must not contain spaces or Double-Byte Character Sets (DBCS). The Class Name should be:
     - meaningful and provide context as to the purpose of the library,
     - clear and concise so it is easy to read and type in scripts,
     - something unique so it is not confused with other function libraries.
7. Enter a unique **Package** name for the function library in the form:
   orgName.groupName.subgroupName

For example:
8. Enter a unique alias to use as the Class name for the function library to identify the library. For example:

WebFunctLib

9. Click Finish.

10. Add your custom code to the function library script.

   - Use the script recorder to record steps.
   - Switch to the Java Code view and edit the code in the functions.
   - Functions declared public will be imported into Oracle Flow Builder.
   - Supporting functions should be declared private otherwise they will be imported into Oracle Flow Builder if declared public.

11. Save the function library script.

12. Select Export from the File menu.

13. Specify a file name for the zip file.


15. Under Additional Files to export, clear the Recorded Data, Playback Results, and Error Log options.

16. Click OK to save the file. This is the file you use to add the function library to the Oracle Flow Builder application. See Section 9.2.7.4, "Adding Function Libraries" for additional information about adding function libraries.

**9.2.7.4 Adding Function Libraries**

Follow these steps to add a new function library to the Oracle Flow Builder application:

1. Make sure you (or a function library developer) have created the function library script and exported the zip file from your OpenScript installation. See Section 9.2.7.3, "Creating a Function Library Script" for additional information.

2. Make sure you (or an Oracle Flow Builder administrator) have set up the function library repository in the OpenScript installation that will be used to execute the Oracle Flow Builder generated scripts. See Section 9.2.7.1, “Setting Up a Function Library Repository in OpenScript” for additional information.

3. Log in using Administrator credentials and go to the Administration page.

4. From Setup, click Function Library.

5. Click Add New Library.
6. Click **Browse** and select the function library file.

7. Enter the target location of the function library relative to the main Oracle Application Testing Suite repository. This should be the same location specified in Section 9.2.7.1, "Setting Up a Function Library Repository in OpenScript".

8. Click **Import Functions**.

   The Parameter data is automatically created in Oracle Flow Builder when a new function library is imported. However, if you wish to include Comments and Test Plan description information for the functions in the library after the import has completed you must enter the data manually. See Section 9.2.7.5, "Modifying Functions" for information about modifying functions to add Comments and Test Plan description information.

9. Add the new function library to the `ebs-function-libs` folder in the OATS repository specified in the OpenScript installation that will be used to play back the functional test scripts that use the new library. See Section 9.2.7.1, "Setting Up a Function Library Repository in OpenScript" for additional information.

10. Modify the function library in the Oracle Flow Builder application to add Comments and Test Plan description information for each new function added from the new function library. See Section 9.2.7.5, "Modifying Functions" for additional information.

### 9.2.7.5 Modifying Functions

To modify functions in a function library:

1. Log in using Administrator credentials and go to the Administration page.

2. From **Setup**, click **Function Library**.

3. Select the Match type: **All** or **Any**.

4. Select a function library or leave blank to search all libraries.

5. Enter the all or part of a function name (or use % wildcard) and click **Search** to list functions within the library.

6. Click the **Modify** link for the function.

7. Enter Comments and Test Plan description information for the function.

8. Click **Submit**.

### 9.2.7.6 Adding a Telnet Function Library

The Telnet function library requires a third-party Java library to be added to the OpenScript installation that will be used to playback functional scripts.
To add the Telnet function library:

3. Replace the empty stub jta26.jar inside the OATS-Repository/TELNETLIB/jar with the downloaded file.

### 9.2.8 Setting Up Email

This section explains the procedures for administering the mail server within Oracle Flow Builder. The Notifications feature of Oracle Flow Builder uses Email to send notifications to users and administrators. The SMTP mail server must be defined in the Mail Server setup before Email notifications are activated.

Follow these steps to specify the mail server in the Oracle Flow Builder application:

1. Log in using Administrator credentials and go to the Administration page.
2. From Setup, click Mail Server.

![Figure 9–17  Mail Server Configuration Options](image)

3. Enter the name of the mail server host. The mail server host is required for sending Email notifications.
4. Enter a numeric SMTP (Mail) Server Port value. The standard SMTP port is 25, unless some other specific port is in use.
5. Enter an Email address to use as the sent by address. Email Notifications will appear to have been sent from this address.
6. Click Save.
7. Verify the Email notifications are working correctly by performing an action that will trigger an Email notification. See Chapter 6, “Using Notifications” for additional information.

### 9.3 Managing Product Family Access

An Administrator sets the access and role users are given for specific product families defined in the Component Tree. The following tasks are performed by an the Product Family owner administrator:

- Adding User Access to a Product Family
- Updating User Access Role for a Product Family
- Removing User Access
9.3.1 Adding User Access to a Product Family

Users can request access to one or more Product Families using the Request for Access option on the Oracle Flow Builder Home page. The request will be sent to the respective Product Family owner. The Product Family owner uses the Product Family Access Controls on the Administration page to add user access to a Product Family. Upon the approval by the Product Family owner, the user will be notified via an email.

To add user access to a Product Family:

1. Log in using Administrator credentials and go to the Administration page.
2. From Product Family Access Controls, click Users.
3. Click Add.

Figure 9–18 Add Access Control Options

Add Access Control

<table>
<thead>
<tr>
<th>User Name</th>
<th>Select User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Family</td>
<td>Select Product Family</td>
</tr>
<tr>
<td>Role</td>
<td>Select Role</td>
</tr>
</tbody>
</table>

4. Select the user.
5. Select the Product Family.
6. Select the Role to assign to the user for the Product Family and click Save.

9.3.2 Updating User Access Role for a Product Family

An administrator can update a user’s access to Product Families using Product Family Access Controls on the Administration page.

To update user access to a Product Family:

1. Log in using Administrator credentials and go to the Administration page.
2. From Product Family Access Controls, click Users.
3. Select the Product Family.
4. Enter the ID of the user (or use % wildcard).
5. Click Search to list users matching the search criteria.
6. Click the pencil icon in the Update column of the user row.
7. Select the Role and click **Save** to update the user access role.

### 9.3.3 Removing User Access

An administrator can remove a user’s access to Product Families using Product Family Access Controls on the Administration page.

To remove user access to a Product Family:

1. Log in using Administrator credentials and go to the Administration page.
2. From **Product Family Access Controls**, click **Users**.
3. Select the Product Family.
4. Enter the ID of the user (or use % wildcard).
5. Select the check box in the **Select** column next to the user to remove.
6. Click **Remove**.

### 9.4 Importing Advanced Packs

An Administrator can import an Advanced Pack deliverable to apply the data to the Oracle Flow Builder application instance. Advanced Packs may contain additional components, component sets, and flows that can be included as add-ons or updates. The following tasks are performed by an Oracle Flow Builder administrator:

- **Importing Advanced Pack Data Files**

### 9.4.1 Importing Advanced Pack Data Files

To import Advanced Pack data files:

1. Log in using Administrator credentials and go to the Administration page.
2. From **Tools**, click **Import**.
3. Select **Browse**.
5. Click **Open**.
6. Click **Save**.
This appendix lists the keywords and objects used to specify component code in Oracle Flow Builder. It contains the following sections:

- **Keywords and Objects**

## A.1 Keywords and Objects

The following table lists the Keywords and valid objects available to use to specify component code.

<table>
<thead>
<tr>
<th>Keywords</th>
<th>Description</th>
<th>Valid Objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTIVATE</td>
<td>Activate the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALERT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHOICEBOX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WINDOW</td>
</tr>
<tr>
<td>APPROVE</td>
<td>Approve the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALERT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHOICEBOX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WINDOW</td>
</tr>
<tr>
<td>CALGETDATE</td>
<td>Get the Calendar date of the object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MISC</td>
</tr>
<tr>
<td>CALSETDATE</td>
<td>Set the Calendar date of the object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MISC</td>
</tr>
<tr>
<td>CANCEL</td>
<td>Cancel the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALERT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHOICEBOX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FLEXWINDOW</td>
</tr>
<tr>
<td>CHECK</td>
<td>Check a checkbox object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHECKBOX</td>
</tr>
</tbody>
</table>
### Table A–1  (Cont.) Keywords and Objects Reference

<table>
<thead>
<tr>
<th>Keywords</th>
<th>Description</th>
<th>Valid Objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLICK</td>
<td>Click the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ ALERTBUTTON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ BUTTON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ CHOICEBOXBUTTON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ EDIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ FLEXCANCEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ FLEXCOMBINATION</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ FLEXOK</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ IMAGE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ LINK</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TAB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TOOLBAR</td>
</tr>
<tr>
<td>CLOSE</td>
<td>Close the specified window object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ WINDOW</td>
</tr>
<tr>
<td>COLLAPSE</td>
<td>Collapse the specified tree object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TREE</td>
</tr>
<tr>
<td>COLLAPSENODE</td>
<td>Close the specified tree node object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TREE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TREELIST</td>
</tr>
<tr>
<td>ENDCATCH</td>
<td>Specify the end of a Catch Keyword set. Used with STARTCATCH.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>ENDGROUP</td>
<td>Specify the end of a Group Keyword set. Used with STARTGROUP.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>ENDITERATE</td>
<td>Specify the end of an iterate Keyword set. Used with STARTITERATE.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>ENDKKEY</td>
<td>Specify the end of a Key Keyword set. Used with STARTKEY.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>ENDOPTIONAL</td>
<td>Specify the end of an Optional Keyword set. Used with STARTOPTIONAL.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>ENDRECOVERY</td>
<td>Specify the end of a Recovery Keyword set. Used with STARTRECOVERY.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>ENDTAB</td>
<td>Specify the end of a Tab Keyword set. Used with STARTTAB.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>ENDXLTLBVERIFY</td>
<td>Specify the end of an Excel table verify Keyword set. Used with STARTXLTBLVERIFY.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>ENDXLVERIFY</td>
<td>Specify the end of an Excel verify Keyword set. Used with STARTXLVERIFY.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>Keywords</td>
<td>Description</td>
<td>Valid Objects</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>EXISTS</td>
<td>Check if the specified object exists.</td>
<td>The following objects are valid: ALERT, BUTTON, CHOICEBOX, IMAGE, LINK, LIST, LOV, RADIOBUTTON, SPREADTABLE, TEXTAREA, WINDOW</td>
</tr>
<tr>
<td>EXPANDNODE</td>
<td>Expand the specified tree node object.</td>
<td>The following objects are valid: TREE, TREELIST</td>
</tr>
<tr>
<td>FIREEVENTBLUR</td>
<td>Fire the Blur event on the specified object.</td>
<td>The following objects are valid: CHECKBOX, EDIT, LIST, LISTBOX, RADIOBUTTON, TEXTAREA</td>
</tr>
<tr>
<td>FIREEVENTONCHANGE</td>
<td>Fire the OnChange event on the specified object.</td>
<td>The following objects are valid: CHECKBOX, EDIT, LIST, LISTBOX, RADIOBUTTON, TEXTAREA</td>
</tr>
<tr>
<td>FUNCTIONCALL</td>
<td>Call a function from the specified function library.</td>
<td>The following libraries are valid: cRMLIB, eBSLibrary, fINLIB, gENLIB, hRMSLIB, pRJTBLVERIFYLIB, pROCLIB, pROJLIB, sCMLIB, tELNETLIB, wEBTABLELIB</td>
</tr>
<tr>
<td>Keywords</td>
<td>Description</td>
<td>Valid Objects</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>GET</td>
<td>Get the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• ALERT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• CHOICEBOX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• EDIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• FIELD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• LINK</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• LIST</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• LISTBOX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• SPREADCELL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• STATUS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• TEXT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• TEXTAREA</td>
</tr>
<tr>
<td>GETATTRIBUTE</td>
<td>Get the attributes of the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• BUTTON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• EDIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• CHECKBOX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• LIST</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• LOV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• RADIODIAGRAM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• WINDOW</td>
</tr>
<tr>
<td>GETCELLDATA</td>
<td>Get the cell data of the specified table object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• TABLE</td>
</tr>
<tr>
<td>GETITEMVALUE</td>
<td>Get the value of the specified list object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• LIST</td>
</tr>
<tr>
<td>INVOKESOFTKEY</td>
<td>Invoke the soft key on the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• EDIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• SPREADTABLE</td>
</tr>
<tr>
<td>LAUNCH</td>
<td>Launch the specified browser object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• BROWSER</td>
</tr>
<tr>
<td>MAXIMIZE</td>
<td>Maximize the specified window object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• WINDOW</td>
</tr>
<tr>
<td>MAXVISIBLELINES</td>
<td>Set the maximum number of visible lines in a table object.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>MENUSELECT</td>
<td>Select the specified menu object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• CONTEXTMENU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MAINMENU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• TREE</td>
</tr>
<tr>
<td>MINIMIZE</td>
<td>Minimize the specified window object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• WINDOW</td>
</tr>
<tr>
<td>NAVIGATE</td>
<td>Navigate to the specified URL.</td>
<td>No objects required.</td>
</tr>
</tbody>
</table>
Table A–1 (Cont.) Keywords and Objects Reference

<table>
<thead>
<tr>
<th>Keywords</th>
<th>Description</th>
<th>Valid Objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRESSTABKEY</td>
<td>Perform a tab key press on the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ EDIT</td>
</tr>
<tr>
<td>SEARCHBYDYNAMICCOLUMN</td>
<td>Search by dynamic column.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>SEARCHCOLUMN</td>
<td>Search by column.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>SEARCHEMPTY</td>
<td>Search for an empty column.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>SELECT</td>
<td>Perform a select action on the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ EDIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ LIST</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ LISTBOX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ RADIOBUTTON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TREELIST</td>
</tr>
<tr>
<td>SELECTALLROWS</td>
<td>Perform a select all rows action on the specified spreadtable object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ SPREADTABLE</td>
</tr>
<tr>
<td>SELECTLOV</td>
<td>Perform a select action on the LOV object.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>SELECTNODE</td>
<td>Perform a select node action on the specified tree object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TREE</td>
</tr>
<tr>
<td>SELECTROW</td>
<td>Perform a select row action on the specified spreadtable object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ SPREADTABLE</td>
</tr>
<tr>
<td>SENDKEY</td>
<td>Perform a send key action on the specified edit object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ EDIT</td>
</tr>
<tr>
<td>SETAPPTYPE</td>
<td>Set the application type. This is typically the first keyword specified in</td>
<td>The following application types are valid:</td>
</tr>
<tr>
<td></td>
<td>the component code.</td>
<td>■ FORMFLEX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ FORMS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ JTT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TELNET</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ WEB</td>
</tr>
<tr>
<td>SETCURRENTROW</td>
<td>Set the current row.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>SETFOCUS</td>
<td>Set the focus on the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ EDIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ FIRSTRECORD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TEXTAREA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TREELIST</td>
</tr>
<tr>
<td>SETLINE</td>
<td>Set the current line.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>SETSPREADTABLE</td>
<td>Set the spreadtable.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>SETTABLENAME</td>
<td>Set the table name.</td>
<td>No objects required.</td>
</tr>
</tbody>
</table>
Table A–1  (Cont.) Keywords and Objects Reference

<table>
<thead>
<tr>
<th>Keywords</th>
<th>Description</th>
<th>Valid Objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>SETTEXT</td>
<td>Set the text on the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- DYNAMICEDIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- EDIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- FIELD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- PASSWORD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- TEXTAREA</td>
</tr>
<tr>
<td>SETWINDOW</td>
<td>Set the window.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>STARTCATCH</td>
<td>Specify the start of a Catch Keyword set. Used with ENDCATCH.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>STARTGROUP</td>
<td>Specify the start of a Group Keyword set. Used with ENDFGROUP.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>STARTITERATE</td>
<td>Specify the start of an Iterate Keyword set. Used with ENDITERATE.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>STARTKEY</td>
<td>Specify the start of a Key Keyword set. Used with ENDKEY.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>STARTOPTIONAL</td>
<td>Specify the start of an Optional Keyword set. Used with ENDOPTIONAL.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>STARTRECOVERY</td>
<td>Specify the start of a Recovery Keyword set. Used with ENDRECOVERY.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>STARTTAB</td>
<td>Specify the start of a Tab Keyword set. Used with ENDTAB.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>STARTXLTLBVERIFY</td>
<td>Specify the start of an Excel table verify Keyword set. Used with ENDXLTLBVERIFY.</td>
<td>No objects required.</td>
</tr>
<tr>
<td>STARTXLVERIFY</td>
<td>Specify the start of an Excel verify Keyword set. Used with ENDXLVERIFY.</td>
<td>No objects required.</td>
</tr>
</tbody>
</table>
Table A–1  (Cont.) Keywords and Objects Reference

<table>
<thead>
<tr>
<th>Keywords</th>
<th>Description</th>
<th>Valid Objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNCHECK</td>
<td>Uncheck the specified checkbox object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ CHECKBOX</td>
</tr>
<tr>
<td>VERIFY</td>
<td>Verify the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ CHECKBOX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ CHOICEBOX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ EDIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ IMAGE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ LINK</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ LIST</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ LISTBOX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ RADIOBUTTON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ SPREADCELL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ STATUSBAR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TEXT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TEXTAREA</td>
</tr>
<tr>
<td>WAIT</td>
<td>Wait for the specified object.</td>
<td>The following objects are valid:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ BUTTON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ EDIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ IMAGE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ LINK</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ LIST</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ LISTBOX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ NORMAL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TEXTAREA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ WINDOW</td>
</tr>
</tbody>
</table>
This appendix lists the function libraries and functions available to specify component code in Oracle Flow Builder. The function libraries and functions are used with the FUNCTIONCALL Keyword in the component code and related the test data in flows.

**B.1 Installed Function Libraries**

The following table lists the function libraries available to use to specify component code.

<table>
<thead>
<tr>
<th>Library</th>
<th>Related Application/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cRMLIB</td>
<td>Customer Relationship Management</td>
</tr>
<tr>
<td>eBSLibrary</td>
<td>EBS Forms applications</td>
</tr>
<tr>
<td>gENLIB</td>
<td>Generic Library</td>
</tr>
<tr>
<td>pRJTLVERIFLIB</td>
<td>Projects</td>
</tr>
<tr>
<td>pRCLIB</td>
<td>Procurement</td>
</tr>
<tr>
<td>pROJLIB</td>
<td>Projects</td>
</tr>
<tr>
<td>sCMLIB</td>
<td>Supply Chain Management</td>
</tr>
<tr>
<td>tELNETLIB</td>
<td>Telnet (requires a third-party Java library to be added to the OpenScript repository where Oracle Flow Builder-generated scripts will be executed. See Adding a Telnet Function Library for additional information).</td>
</tr>
<tr>
<td>wEVTABLELIB</td>
<td>Web Tables</td>
</tr>
</tbody>
</table>

The following sections provide details about the functions in each library.

**B.1.1 Function Parameters**

Various functions in the libraries use the following parameters:

<table>
<thead>
<tr>
<th>Parameter Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@after</td>
<td>Specifies that the value after the specified text is used. The @after text is specified in the Attribute Value column of the component code. For example, @after='Child Labor Laws Compliance', @uitype='checkbox'.</td>
</tr>
</tbody>
</table>
The cRMLIB function library is used to develop component code and flows for Customer Relationship Management applications.

### B.2.1 addToCartItemDetails

Clicks on the Item Details icon and Add to cart button for the specified item and quantity.

**Test Data**

The addToCartItemDetails function requires the following Test Data:

@param1, @param2 as Item label, Quantity.

### B.2.2 cartCheckout

Click on Checkout for the specified cart type.

**Test Data**

The cartCheckout function requires the following Test Data:

@param1 as Cart Type.

### B.2.3 checkImageCheckBox

Checks the specified Checkbox.

**Test Data**

The checkImageCheckBox function requires the following Test Data:

@logical, @param1 as Check ( True / False ).

---

<table>
<thead>
<tr>
<th>Parameter Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@before</td>
<td>Specifies that the value before the specified text is used. The @before text is specified in the Attribute Value column of the component code. For example, @before='Child Labor Laws Compliance',@uitype='checkbox'.</td>
</tr>
<tr>
<td>@caption</td>
<td>Specifies the caption used to identify an object. The @caption is specified in the Display Name column of the component code. For example, @caption='Title'.</td>
</tr>
<tr>
<td>@logical</td>
<td>Specifies a True/False value. The @logical values is specified in the Attribute Value column of the component code. For example, @logical='True'.</td>
</tr>
<tr>
<td>@param#</td>
<td>Specifies the Test Data parameter(s) required for the function. Test Data is specified in the Flow test data.</td>
</tr>
<tr>
<td>@uitype</td>
<td>Specifies the type of UI component. The @uitype is specified in the Attribute Value column of the component code corresponding to the component type of the UI component. Valid values for @uitype are: select, textarea, input, checkbox.</td>
</tr>
<tr>
<td>@window</td>
<td>Refers to current window that is in context.</td>
</tr>
</tbody>
</table>
B.2.4  clickAddToCart

Clicks on AddtoCart for the specified Item Name.

Test Data
The clickAddToCart function requires the following Test Data:
@param1 as Item Name.

B.2.5  clickConfigure

Clicks on Configure for the specified Item Name.

Test Data
The clickConfigure function requires the following Test Data:
@param1 as Item Name.

B.2.6  clickExpressCheckOut

Clicks on Express Checkout for the specified Item Name.

Test Data
The clickExpressCheckOut function requires the following Test Data:
@param1 as Item Name.

B.2.7  clickImageInInnerNavigationTable

Click on the image in the table with inner navigation.

Test Data
The clickImageInInnerNavigationTable function requires the following Test Data:
@param1, @param2, @param3, @param4, @param5 as Table Name, Navigation Column, Search Column, Search Value, Target Column.

B.2.8  clickLOVBasedOnLabel

Clicks on the Torch icon for the specified field.

Test Data
The clickLOVBasedOnLabel function requires the following Test Data:
@param1 as Label Name.

B.2.9  clickSiteLink

Clicks on the specified SiteLink in iStore.

Test Data
The clickSiteLink function requires the following Test Data:
@param1 as Site Name to Click.
B.2.10  **clickTableImage**

Clicks the image in the specified table.

**Test Data**
The *clickTableImage* function requires the following Test Data:

@caption, @param1, @param2, @param3 as Column Number To Verify, Search text, ColumnName To Select.

B.2.11  **crmWebSelectLOV**

Selects the specified values from the Search and Select list of values for the specified field.

**Test Data**
The *crmWebSelectLOV* function requires the following Test Data:

@param1, @param2, @param3, @param4, @param5 as LovName, SearchByOption, SearchValue, ColName, RowValue.

B.2.12  **expandBasedOnLabel**

Expands the specified label name.

**Test Data**
The *expandBasedOnLabel* function does not require Test Data.

B.2.13  **expandCollapseBasedOnLabel**

Expands or collapses the specified label.

**Test Data**
The *expandCollapseBasedOnLabel* function does not require Test Data.

B.2.14  **getRequestStatus**

Click the refresh button until the request status is completed with Request ID to get the Refresh the status of the request.

**Test Data**
The *getRequestStatus* function requires the following Test Data:

@param1 as Request ID.

B.2.15  **jttLogin**

Login to the wireless application with the specified username and password.

**Test Data**
The *jttLogin* function requires the following Test Data:

@param1, @param2 as Username, Password.
B.2.16  refreshWebItem
Click on the specified button until the status changes to the required value.

Test Data
The refreshWebItem function requires the following Test Data:
@param1, @param2, @param3, @param4, @param5, @param6 as Button Name, Table Name, Source Column, Source Column Value, Target Column, Target Column Value.

B.2.17  searchEditableRow
Searches For Editable row

Test Data
The searchEditableRow function does not require Test Data.

B.2.18  selectAddress
Selects the specified address.

Test Data
The selectAddress function requires the following Test Data:
@param1 as Address.

B.2.19  selectCartAction
Select the action to be performed on the specified cart type.

Test Data
The selectCartAction function requires the following Test Data:
@param1, @param2 as Cart Type, Item To Select.

B.2.20  selectCustomer
Selects the specified customer by value and account number

Test Data
The selectCustomer function requires the following Test Data:
@param1, @param2, @param3 as Search For, Search For Value, Account Number.

B.2.21  selectDisplayTemplate
Selects the radio button with the specified label name.

Test Data
The selectDisplayTemplate function requires the following Test Data:
@param1 as Label Name.

B.2.22  selectFormsSingleColValues
Selects the multiple (comma separated) resources.
Test Data
The selectFormsSingleColValues function requires the following Test Data:
@logical, @param1 as comma separated resources.

B.2.23 selectImageRadiobutton
Selects the specified Radio Button.

Test Data
The selectImageRadiobutton function requires the following Test Data:
@logical, @param1 as Select [ True / False ].

B.2.24 selectMediaContent
Select the specified value from Search and Select list of values.

Test Data
The selectMediaContent function requires the following Test Data:
@param1, @param2 as Search For, Value to Select.

B.2.25 setCartQuantity
Sets the cart quantity for the specified Item name.

Test Data
The setCartQuantity function requires the following Test Data:
@param1, @param2 as Item Name, Quantity.

B.2.26 setSearchParams
Sets the search parameters to handle the search criteria for different values in the listbox.

Test Data
The setSearchParams function requires the following Test Data:
@param1 as SearchForName, OperatorValue, ValueToSet.

B.2.27 verifyBatchStatus
Verifies the batch status.

Test Data
The verifyBatchStatus function requires the following Test Data:
@param1 as Batch Status.

B.2.28 verifyDateBasedOnMonday
Verify if the date is Monday.

Test Data
The verifyDateBasedOnMonday function requires the following Test Data:
B.2.29 verifyJobStatus
Verifies the job status.

Test Data
The verifyJobStatus function requires the following Test Data:
@param1 as Job Status.

B.2.30 webClickDynamicLink
Clicks on the specified Link Name.

Test Data
The webClickDynamicLink function requires the following Test Data:
@param1 as LinkName.

B.3 eBSLibrary Function Library
The eBSLibrary function library is used to develop component code and flows for EBS Forms applications.

B.3.1 addFailedResult
Adds a "Failed" result to the Oracle Application Testing Suite results file for the specified Step Name.

Test Data
The addFailedResult function requires the following Test Data:
@param1, @param2 as Step Name, Comment.

B.3.2 addPassedResult
Adds a "Pass" result to the Oracle Application Testing Suite results file for the specified Step Name.

Test Data
The addPassedResult function requires the following Test Data:
@param1, @param2 as Step Name, Comment.

B.3.3 oracle_close_all_browsers
Closes all open browsers and EBS Forms.

Test Data
The oracle_close_all_browsers function does not require Test Data.

B.3.4 oracle_date_manipulation
Returns a date value based on the format and manipulations specified as input.
Test Data
The oracle_date_manipulation function requires the following Test Data:
@param1, @param2, @param3, @param4 as Date Format, Days, Months, Years.

B.3.5 oracle_exit_app
Exits the EBS Forms application and closes all browsers.

Test Data
The oracle_exit_app function does not require Test Data.

B.3.6 oracle_form_initial_condition
Sets the initial state of the EBS Forms Navigator window.

Test Data
The oracle_form_initial_condition function does not require Test Data.

B.3.7 oracle_formWindow_close
Closes the specified EBS Forms window.

Test Data
The oracle_formWindow_close function requires the following Test Data:
@param1 as Title.

B.3.8 oracle_homepage_nav
Navigates to the specified responsibility, menu path, and function in an EBS Application home page.

Test Data
The oracle_homepage_nav function requires the following Test Data:
@param1, @param2, @param3 as Resp, Menu Path, Menu Choice.

B.3.9 oracle_input_dialog
Prompts the user for an input using the specified message title.

Test Data
The oracle_input_dialog function requires the following Test Data:
@param1 as Prompt Message Title.

B.3.10 oracle_launch_istore_url
Launches an iStore URL.

Test Data
The oracle_launch_istore_url function does not require Test Data.
B.3.11 oracle_launch_jsp_url
Launches a JSP URL.

Test Data
The oracle_launch_jsp_url function does not require Test Data.

B.3.12 oracle_launch_php_url
Launches a PHP URL.

Test Data
The oracle_launch_php_url function does not require Test Data.

B.3.13 oracle_menu_select
Selects the specified menu path in an EBS Forms window.

Test Data
The oracle_menu_select function requires the following Test Data:
@param1 as Menu Path.

B.3.14 oracle_navigation_menu
Navigates to the specified menu and function in the EBS Application home page.

Test Data
The oracle_navigation_menu function requires the following Test Data:
@param1, @param2 as Menu Path, Menu Function.

B.3.15 oracle_navigator_select
Selects the navigation path in the EBS Forms Navigator window.

Test Data
The oracle_navigator_select function requires the following Test Data:
@param1 as Navigation Path.

B.3.16 oracle_php_login
Logs in to a PHP URL with the specified user credentials.

Test Data
The oracle_php_login function requires the following Test Data:
@param1, @param2 as User Name, Password.

B.3.17 oracle_php_signon
Logs in to a PHP URL with the specified user credentials and clicks on the specified responsibility of an EBS Application.
Test Data
The oracle_php_signon function requires the following Test Data:
@param1, @param2, @param3 as User, Password, Resp.

B.3.18 oracle_prompt_sql
Prompts the user to provide a SQL URL.

Test Data
The oracle_prompt_sql function does not require Test Data.

B.3.19 oracle_prompt_url
Prompts the user to provide instance URLs.

Test Data
The oracle_prompt_url function does not require Test Data.

B.3.20 oracle_statusbar_msgck
Checks the EBS Forms status bar message against the specified expected value.

Test Data
The oracle_statusbar_msgck function requires the following Test Data:
@param1 as Expected Status Bar Message.

B.3.21 oracle_switch_responsibility
Switches to the specified responsibility in an EBS Form.

Test Data
The oracle_switch_responsibility function requires the following Test Data:
@param1 as Responsibility Name.

B.3.22 oracle_table_objClick
Clicks an image in the specified table.

Test Data
The oracle_table_objClick function requires the following Test Data:
@param1, @param2 as UniqueIdentifier, Column, State.

B.4 gENLIB Function Library
The gENLIB function library is used to develop component code and flows for General applications.

B.4.1 actOnAssignment
Clicks on update or correct button based on the specified input.
Test Data
The actOnAssignment function requires the following Test Data:
@param1 as Click Update / Correction.

B.4.2 addPassFailResult
Adds pass or fail result to the OATS result file based on input.

Test Data
The addPassFailResult function requires the following Test Data:
@param1, @param2 as Step Name, Comment.

B.4.3 alterEffectiveDate
Sets effective date to the specified value.

Test Data
The alterEffectiveDate function requires the following Test Data:
@param1 as Date.

B.4.4 clickFlexOK
Clicks the Ok button on a flex window.

Test Data
The clickFlexOK function does not require Test Data.

B.4.5 clickHide
Clicks the hide link.

Test Data
The clickHide function does not require Test Data.

B.4.6 closeForm
Closes the current form.

Test Data
The closeForm function does not require Test Data.

B.4.7 closeForms
Closes all open forms.

Test Data
The closeForms function does not require Test Data.

B.4.8 closeWebPage
Close the specified web page.
Test Data
The closeWebPage function requires the following Test Data:
@param1 as Title Name.

B.4.9 expandAndSelectNode
Expands and selects tree nodes in EBS Form window.

Test Data
The expandAndSelectNode function requires the following Test Data:
@logical, @param1 as Navigation Path.

B.4.10 expandNodes
Expands the specified tree nodes in EBS Form window.

Test Data
The expandNodes function requires the following Test Data:
@logical, @param1 as Navigation Path.

B.4.11 extractNumber
Extracts a number from a specified string.

Test Data
The extractNumber function requires the following Test Data:
@param1 as Text.

B.4.12 extractZipFile
Extracts the zip file to the specified location.

Test Data
The extractZipFile function requires the following Test Data:
@param1 as File Name.

B.4.13 formHideField
Hides the current field in an EBS Form window.

Test Data
The formHideField function requires the following Test Data:
@window, @logical as FieldName.

B.4.14 formMenuSelect
Selects the specified menu option in an EBS Form window.

Test Data
The formMenuSelect function requires the following Test Data:
@param1 as Main Menu Path.

**B.4.15 formsChoiceWindow**

Clicks the Ok button in an EBS Forms decision box.

**Test Data**
The formsChoiceWindow function does not require Test Data.

**B.4.16 formsConfirmDialog**

Clicks the Yes button in an EBS Forms alert dialog.

**Test Data**
The formsConfirmDialog function does not require Test Data.

**B.4.17 formSelectDate**

Selects the specified date from an EBS Forms calendar.

**Test Data**
The formSelectDate function requires the following Test Data:

@logical, @param1 as DateValue.

**B.4.18 formSelectLOV**

Selects a value from a forms select list of values window.

**Test Data**
The formSelectLOV function requires the following Test Data:

@logical, @param1 as Value To Select.

**B.4.19 formSetValueInDynamicColumn**

Sets a value in a dynamic column.

**Test Data**
The formSetValueInDynamicColumn function requires the following Test Data:

@param1, @param2, @param3 as Forms Dynamic Column Name, Row Number, Value To Set.

**B.4.20 formShowField**

Shows a specified field in an EBS Form window.

**Test Data**
The formShowField function requires the following Test Data:

@window, @param1 as | separated field name and value or field name to show.

**B.4.21 formsSelectColor**

Selects color from an EBS Forms color picker window.
Test Data
The formsSelectColor function requires the following Test Data:
@logical, @param1 as Color Value.

B.4.22 formsVerifyTextArea
Verifies the value of a textarea located in an EBS Form window.

Test Data
The formsVerifyTextArea function requires the following Test Data:
@logical, @param1 as Expected Value.

B.4.23 formVerifyCheckBox
Verifies the status of an EBS Forms check box.

Test Data
The formVerifyCheckBox function requires the following Test Data:
@logical, @param1 as CheckBox Status.

B.4.24 formVerifyEdit
Verifies text field values on an EBS Form window.

Test Data
The formVerifyEdit function requires the following Test Data:
@logical, @param1 as Expected Value.

B.4.25 formVerifyList
Verifies a list value in an EBS Form window.

Test Data
The formVerifyList function requires the following Test Data:
@logical, @param1 as Expected Value.

B.4.26 formVerifyListBox
Verifies a list box value in an EBS Form window.

Test Data
The formVerifyListBox function requires the following Test Data:
@logical, @param1 as Expected Value.

B.4.27 formVerifyListBoxValues
Verifies if the specified values exists in an EBS Forms list box.

Test Data
The formVerifyListBoxValues function requires the following Test Data:
@param1 as expectedValue1, expectedValue2, expectedValue3 [...].

**B.4.28 formVerifyRadioButton**
Verifies the status of an EBS Forms radio button.

**Test Data**
The formVerifyRadioButton function requires the following Test Data:
@logical, @param1 as Radio Button Status.

**B.4.29 formVerifyStatus**
Verifies an EBS Forms status bar message.

**Test Data**
The formVerifyStatus function requires the following Test Data:
@param1 as Message.

**B.4.30 getNumbersFromStr**
Extracts numbers from a specified string.

**Test Data**
The getNumbersFromStr function requires the following Test Data:
@param1, @param2, @param3, @param4 as Message, before, after, index.

**B.4.31 getRandomNumber**
Returns a random number.

**Test Data**
The getRandomNumber function requires the following Test Data:
@param1 as MaxRange.

**B.4.32 getSysDate**
Gets the current date based on the specified format.

**Test Data**
The getSysDate function requires the following Test Data:
@param1, @param2 as Format, NumberOfdays[0/+ve/-ve].

**B.4.33 getSysDateTime**
Gets the current date and time based on the specified format.

**Test Data**
The getSysDateTime function requires the following Test Data:
@param1, @param2 as Format, NumberOfdays[0/+ve/-ve].
B.4.34 **getValueBasedonLabelAfterUIComponent**

Gets a value from a field based on the label present after the field.

**Test Data**
The `getValueBasedonLabelAfterUIComponent` function does not require Test Data.

B.4.35 **getValueBasedonLabelBeforeUIComponent**

Gets a value from a field based on the label present before the field.

**Test Data**
The `getValueBasedonLabelBeforeUIComponent` function does not require Test Data.

B.4.36 **handleDialog**

Approves or rejects the dialog window based on the input provided.

**Test Data**
The `handleDialog` function requires the following Test Data:
@param1 as Action to Perform ( TRUE / FALSE ).

B.4.37 **handleMicrosoftAlert**

Handle the Microsoft alerts.

**Test Data**
The `handleMicrosoftAlert` function does not require Test Data.

B.4.38 **handleSSL**

Handles the ssl alerts.

**Test Data**
The `handleSSL` function does not require Test Data.

B.4.39 **navigateToHome**

Navigates to the EBS Application home page.

**Test Data**
The `navigateToHome` function does not require Test Data.

B.4.40 **openInventoryPeriod**

Opens inventory periods for specified list of periods.

**Test Data**
The `openInventoryPeriod` function requires the following Test Data:
@param1 as Comma separated periods.
B.4.41 oracle_prompt_jtt_url
Prompts the user to provide a jtt URL.

Test Data
The oracle_prompt_jtt_url function does not require Test Data.

B.4.42 saveDialog
Saves the downloadable file to the specified location.

Test Data
The saveDialog function requires the following Test Data:
@param1 as Location.

B.4.43 selectFile
Browses and selects a file in EBS OAF / web page.

Test Data
The selectFile function requires the following Test Data:
@logical, @param1 as File Path.

B.4.44 selectListMultiValues
Selects multiple values in a list box.

Test Data
The selectListMultiValues function requires the following Test Data:
@logical, @param1 as Comma separated values to Select.

B.4.45 setEditValueBasedOnLabel
Sets a value in an edit field based on the specified label.

Test Data
The setEditValueBasedOnLabel function requires the following Test Data:
@param1, @param2 as Label Name, Value to set.

B.4.46 setFlexText
Sets a value in text field of a flex window.

Test Data
The setFlexText function requires the following Test Data:
@param1, @param2 as Text Field Name, Value.

B.4.47 setFormsText
Sets the specified value in EBS Forms text field.
**Test Data**  
The `setFormsText` function requires the following Test Data:  
@logical, @param1 as Value To Set.

**B.4.48 setPayablePeriods**  
Sets payable periods to a status as per the specified input.

**Test Data**  
The `setPayablePeriods` function requires the following Test Data:  
@param1, @param2, @param3, @param4 as Ledger, Operating Unit, Comma separated Periods, Comma separated status.

**B.4.49 setPurchasingPeriod**  
Sets the specified purchasing periods to the specified status respectively.

**Test Data**  
The `setPurchasingPeriod` function requires the following Test Data:  
@param1, @param2 as Comma separated periods, Comma separated status.

**B.4.50 setRadioValueBasedonLabelAfterUIComponent**  
Selects a radio button based on the label present after the button.

**Test Data**  
The `setRadioValueBasedonLabelAfterUIComponent` function requires the following Test Data:  
@param1 as After Text For Radio.

**B.4.51 setRadioValueBasedonLabelBeforeUIComponent**  
Selects a radio button based on the label present before the button.

**Test Data**  
The `setRadioValueBasedonLabelBeforeUIComponent` function requires the following Test Data:  
@param1 as Before Text For Radio.

**B.4.52 setValueBasedonLabelAfterUIComponent**  
Sets or selects a value in a field based on the label present after the field.

**Test Data**  
The `setValueBasedonLabelAfterUIComponent` function requires the following Test Data:  
@after, @uiType, @param1 as Value to set.

**B.4.53 setValueBasedonLabelBeforeUIComponent**  
Sets or selects a value in a field based on the label present before the field.
Test Data
The `setValueBasedonLabelBeforeUIComponent` function requires the following Test Data:

@before, @uitype, @param1 as Label before UI component, UI Component type, Value to set.

### B.4.54 SHOWALLFIELDS
Shows all fields in an EBS Form window.

**Test Data**
The SHOWALLFIELDS function does not require Test Data.

### B.4.55 switchResponsibility
Switches to the specified responsibility in EBS Forms.

**Test Data**
The switchResponsibility function requires the following Test Data:

@param1 as Value To Select.

### B.4.56 uploadFile
Uploads the specified file.

**Test Data**
The uploadFile function requires the following Test Data:

@param1 as File Name.

### B.4.57 verifyAndClosePopup
Verifies a message on a popup and closes the popup.

**Test Data**
The verifyAndClosePopup function requires the following Test Data:

@param1, @logical as Popup message to verify.

### B.4.58 verifyParentChildReqs
Verifies the parent and child request status based on the specified input.

**Test Data**
The verifyParentChildReqs function requires the following Test Data:

@param1, @param2, @param3, @param4, @param5 as Parent ReqID, Parent ReqIndex, Parent Status, comma separated Child Request Names, comma separated Child Req Statuses.

### B.4.59 verifyRequestStatus
Verifies the request status with the specified value.
The verifyRequestStatus function requires the following Test Data:
@param1 as Expected Value.

**B.4.60 verifyValueBasedonLabelAfterUIComponent**
Verifies the value of a field based on the label present after the field.

**Test Data**
The verifyValueBasedonLabelAfterUIComponent function requires the following Test Data:
@after, @uitype, @param1 as Value to verify.

**B.4.61 verifyValueBasedonLabelBeforeUIComponent**
Verifies the value of a field based on the label present before the field.

**Test Data**
The verifyValueBasedonLabelBeforeUIComponent function requires the following Test Data:
@before, @uitype, @param1 as Value to verify.

**B.4.62 verifyValueInDynamicColumn**
Verifies a value in the specified column of web table.

**Test Data**
The verifyValueInDynamicColumn function requires the following Test Data:
@param1, @param2, @param3 as Column Name, Row Number, Expected Value.

**B.4.63 webClickButton**
Searches a specified button name in an EBS OAF / web page and clicks the button.

**Test Data**
The webClickButton function does not require Test Data.

**B.4.64 webClickDynamicLink**
Searches the specified link name on an EBS OAF / web page and clicks the link.

**Test Data**
The webClickDynamicLink function requires the following Test Data:
@param1 as LinkName.

**B.4.65 webClickImage**
Clicks an image on an EBS OAF / web page.

**Test Data**
The webClickImage function does not require Test Data.
B.4.66  webClickLink
Clicks a link in an EBS OAF / web page.

Test Data
The webClickLink function does not require Test Data.

B.4.67  webGetTextBasedOnLabel
Gets plain text from a web page which is present after the specified text.

Test Data
The webGetTextBasedOnLabel function does not require Test Data.

B.4.68  webLogout
Logs out from the EBS Application.

Test Data
The webLogout function does not require Test Data.

B.4.69  webSelectDate
Selects the specified date value from an EBS OAF calendar.

Test Data
The webSelectDate function requires the following Test Data:
@logical, @param1 as DateValue.

B.4.70  webSelectListBox
Selects a value in a list box.

Test Data
The webSelectListBox function requires the following Test Data:
@logical, @param1 as Value to Select.

B.4.71  webSelectLOV
Selects a value from Search and Select list of values.

Test Data
The webSelectLOV function requires the following Test Data:
@logical, @param1, @param2, @param3, @param4 as SearchByOption, SearchValue, ColName, RowValue.

B.4.72  webSetTextBasedOnLabel
Sets text in an OAF text field based on the label specified.

Test Data
The webSetTextBasedOnLabel function requires the following Test Data:
B.4.73  webSetTextWithLOV
Enters value in a text field and if a search and select list of values window appears, function will try to select the value from the new window.

Test Data
The webSetTextWithLOV function requires the following Test Data:
@logical, @param1 as Value To Set.

B.4.74  webVerifyCheckBox
Verifies if the EBS OAF / web check box is checked or unchecked as per the specified input.

Test Data
The webVerifyCheckBox function requires the following Test Data:
@logical, @param1 as Expected Value.

B.4.75  webVerifyEdit
Verifies text field values on an EBS OAF / web page.

Test Data
The webVerifyEdit function requires the following Test Data:
@logical, @param1 as Expected Value.

B.4.76  webVerifyLinkBasedOnLabel
Verifies a link from a web page which is present after the specified text.

Test Data
The webVerifyLinkBasedOnLabel function requires the following Test Data:
@logical, @param1 as Expected Value.

B.4.77  webVerifyList
Verifies a value in list object.

Test Data
The webVerifyList function requires the following Test Data:
@logical, @param1 as Expected Value.

B.4.78  webVerifyListBoxValues
Verifies if values are present in EBS OAF / web list box.

Test Data
The webVerifyListBoxValues function requires the following Test Data:
@logical, @param1 as expectedValue1, expectedValue2, expectedValue3[...].

B.4.79  webVerifyListValues
Verifies if values are present in an EBS OAF / web list.

Test Data
The webVerifyListValues function requires the following Test Data:
@logical, @param1 as expectedValue1, expectedValue2, expectedValue3[...].

B.4.80  webVerifyRadioButton
Verifies the status of a radio button status in an EBS OAF / web page.

Test Data
The webVerifyRadioButton function requires the following Test Data:
@logical, @param1 as Radio Button Status.

B.4.81  webVerifyText
Verifies plain text on an EBS OAF / web page.

Test Data
The webVerifyText function requires the following Test Data:
@param1 as Text.

B.4.82  webVerifyTextArea
Verifies if the EBS OAF / web text area has the specified value.

Test Data
The webVerifyTextArea function requires the following Test Data:
@logical, @param1 as Expected Value.

B.4.83  webVerifyTextBasedOnLabel
Verifies plain text in a web page which is present after the specified text.

Test Data
The webVerifyTextBasedOnLabel function requires the following Test Data:
@logical, @param1 as Expected Value.

B.4.84  webVerifyTextWithAfter
Verifies the text on a EBS OAF / web page which is present after the specified string.

Test Data
The webVerifyTextWithAfter function requires the following Test Data:
@logical, @param1 as Expected value to verify.
B.4.85  webVerifyTextWithBefore

Verifies the text on a EBS OAF / web page which is present before the specified string.

**Test Data**
The `webVerifyTextWithBefore` function requires the following Test Data:

@logical, @param1 as Expected value to verify.

B.4.86  webVerifyTextWithBeforeAfter

Verifies text on an EBS OAF / web page which is present between two specified strings.

**Test Data**
The `webVerifyTextWithBeforeAfter` function requires the following Test Data:

@before, @after, @param1 as Expected value to verify.

B.5  pRJTBLVERIFYLIB Function Library

The pRJTBLVERIFYLIB function library is used to develop component code and flows for Projects applications.

B.5.1  setTableContext

Verify if the values present in web table match the values present in the specified Excel file.

**Test Data**
The `setTableContext` function requires the following Test Data:

@param1, @param2, @param3 as Table Name, Excel Name, Sheet Name.

B.6  pROCLIB Function Library

The pROCLIB function library is used to develop component code and flows for Procurement applications.

B.6.1  addAttachments

Adds attachments.

**Test Data**
The `addAttachments` function requires the following Test Data:

@param1, @param2, @param3 as Array of Field Labels, Array of Field Values, Action.

B.6.2  addIDVStructuretoCart

Adds the specified IDV structure to the cart based on the Item name and IDV number.

**Test Data**
The `addIDVStructuretoCart` function requires the following Test Data:

@param1, @param2, @param3 as Item Name, Enter IDV Number, enter price.
B.6.3  addItemFromFavToDocument

Adds the specified Item from the favorites list to the cart.

Test Data

The addItemFromFavToDocument function requires the following Test Data:

@param1, @param2 as Enter Item, Enter IDV Number (Optional).

B.6.4  addItemPricingDetails

Sets specified Item pricing detail to specified value.

Test Data

The addItemPricingDetails function requires the following Test Data:

@param1, @param2 as Array of Field Names, Array of Field Values.

B.6.5  addToCartBasedOnSource

Adds an item to the cart based on the Item name and Source document number.

Test Data

The addToCartBasedOnSource function requires the following Test Data:

@param1, @param2 as Item Name, Enter Source.

B.6.6  Award_Bid_To_Supplier

Fills in details in the Award By Bid page for the specified supplier and specified option.

Test Data

The Award_Bid_To_Supplier function requires the following Test Data:

@param1, @param2, @param3, @param4, @param5, @param6 as Supplier Name , Award, Award Option, Value To Enter, Internal Note , Note To Supplier.

B.6.7  awardTableAction

Enters text or selects the Award option of a Supplier in the Awards table.

Test Data

The awardTableAction function requires the following Test Data:

@param1, @param2, @param3, @param4 as Supplier name, Label value of line, Enter object type among:checkbox/radiobutton/textarea/textbox, Enter value.

B.6.8  carWebSelectLOV

Selects values from a List of Values (LOV) in the Car creation page, which does not have OAF UI.

Test Data

The carWebSelectLOV function requires the following Test Data:
B.6.9 clearShoppingCart

Clears the existing items in the iProcurement Shopping cart.

**Test Data**
The clearShoppingCart function does not require Test Data.

B.6.10 clickBidinAwardBid

Clicks on the Bid of a mentioned Supplier in the Award By Bid page.

**Test Data**
The clickBidinAwardBid function requires the following Test Data:
@param1 as Supplier Name.

B.6.11 editRequisitionNumber

Edits the Requisition number auto-generated to a user defined Requisition number.

**Test Data**
The editRequisitionNumber function requires the following Test Data:
@param1, @param2, @param3, @param4 as Enter Prefix, Enter Agency Identifier, Enter Allowed Range, Enter serial Number.

B.6.12 encryptURL

Generates a Encrypted URL for a specified operating unit for a Supplier to register to that Operating unit.

**Test Data**
The encryptURL function requires the following Test Data:
@param1 as Url to Encrypt.

B.6.13 formsSetChargeAccount

Sets the charge account for a distribution Line in the Distributions window.

**Test Data**
The formsSetChargeAccount function requires the following Test Data:
@param1, @param2 as chargeAccount, distributionLineNumber.

B.6.14 getAwardOption

Gets the specified Award option of the specified Supplier name in the Award by Bid table.

**Test Data**
The getAwardOption function requires the following Test Data:
@param1, @param2 as Supplier name, Label value of line.

B.6.15 getCheckboxValueBasedOnLabel
Gets the state of the checkbox next to the specified label.

Test Data
The getCheckboxValueBasedOnLabel function requires the following Test Data:
@param1 as Enter label name.

B.6.16 getEditValueBasedOnLabel
Gets the text in the textbox next to the specified label.

Test Data
The getEditValueBasedOnLabel function requires the following Test Data:
@param1 as Enter label name.

B.6.17 getOfferReceiveTime
Calculates Offer receive time to be used while creating Surrogate bid based on Negotiation open time.

Test Data
The getOfferReceiveTime function requires the following Test Data:
@param1, @param2 as Enter Date format of OpenTime (Optional), Enter the open time.

B.6.18 getSelectValueBasedOnLabel
Gets the selected option in the Selectbox next to the specified label.

Test Data
The getSelectValueBasedOnLabel function requires the following Test Data:
@param1 as Enter label name.

B.6.19 getTextAreaValueBasedOnLabel
Gets the text in the textarea next to the specified label.

Test Data
The getTextAreaValueBasedOnLabel function requires the following Test Data:
@param1 as Enter label name.

B.6.20 getValueBasedOnLabel
Gets a value in the specified type of component next to the label specified.

Test Data
The getValueBasedOnLabel function requires the following Test Data:
@caption, @param1 as Component Type.
B.6.21 **handleEditDocumentNumber**
Edits the Document number auto generated to a user defined Document number.

**Test Data**
The *handleEditDocumentNumber* function requires the following Test Data:

@param1, @param2, @param3, @param4 as DODAAC, Instrument Type, Allowed Range, Serial Number.

B.6.22 **handleWebTermsWindow**
Handles Terms and Accept condition window and Click on specified button in Terms and Accept condition window.

**Test Data**
The *handleWebTermsWindow* function requires the following Test Data:

@param1 as Button Name ( Accept / Cancel ).

B.6.23 **launchCustomURL**
Navigates to a generated custom URL.

**Test Data**
The *launchCustomURL* function requires the following Test Data:

@param1 as Enter custom URL.

B.6.24 **selectApproverInManageApprovals**
Selects a specific Approver from the Approver's list.

**Test Data**
The *selectApproverInManageApprovals* function requires the following Test Data:

@param1 as approver.

B.6.25 **selectFirstOptionInSelectBoxBasedOnLabel**
Selects the first available option in the Selectbox next to the specified label.

**Test Data**
The *selectFirstOptionInSelectBoxBasedOnLabel* function requires the following Test Data:

@param1 as Label name.

B.6.26 **selectFirstValueFromLOV**
Selects the First available value in a List Of Values (LOV).

**Test Data**
The *selectFirstValueFromLOV* function requires the following Test Data:

@param1 as Enter LOV Name.
B.6.27 selectRadiobuttonBasedonLabel
Selects the Radio button next to the specified label.

Test Data
The selectRadiobuttonBasedonLabel function requires the following Test Data:
@param1 as Select Label.

B.6.28 selectSearchRadioOption
Selects specified Show table data Radio button in Search criteria of Search window.

Test Data
The selectSearchRadioOption function requires the following Test Data:
@param1 as Search Radio Label.

B.6.29 setCheckboxValueBasedOnLabel
Checks or unchecks the checkbox next to the specified label.

Test Data
The setCheckboxValueBasedOnLabel function requires the following Test Data:
@param1, @param2 as Enter label name, Enter true or false to Check or uncheck.

B.6.30 setEditValueBasedOnLabel
Enters text in the textbox next to the specified label.

Test Data
The setEditValueBasedOnLabel function requires the following Test Data:
@param1, @param2 as Enter label name, Value to enter.

B.6.31 setNextRandomNumber
Enters a Random number in a field until that Random number is unique and not present in the Application database.

Test Data
The setNextRandomNumber function does not require Test Data.

B.6.32 setSelectValueBasedOnLabel
Selects an option in the Selectbox next to the specified label.

Test Data
The setSelectValueBasedOnLabel function requires the following Test Data:
@param1, @param2 as Enter label name, Value to select.

B.6.33 setTextAreaValueBasedOnLabel
Enters text in the textarea next to the specified label.
Test Data
The setTextAreaValueBasedOnLabel function requires the following Test Data:
@param1, @param2 as Enter label name, Value to enter.

B.6.34 setValueBasedOnLabel
Sets a value in the specified type of component next to the label specified.

Test Data
The setValueBasedOnLabel function requires the following Test Data:
@caption, @param1, @param2 as Type of the Component, Value to Set.

B.6.35 Verify_AwardBid_Details_Supplier
Verifies the details in the Award By Bid page for the specified supplier and specified option.

Test Data
The Verify_AwardBid_Details_Supplier function requires the following Test Data:
@param1, @param2, @param3 as Supplier Name, Award Option, Value to Verify.

B.6.36 verifyAwardOption
Verifies that the specified Award option of the specified Supplier name in the Award by Bid table matches the Expected value.

Test Data
The verifyAwardOption function requires the following Test Data:
@param1, @param2, @param3 as Enter Supplier name, Enter Label value of line, value to verify.

B.6.37 verifyCheckBoxImageBasedOnLabel
Verifies that the image ALT tag next to the specified label matches with ON/OFF checkbox image ALT tag.

Test Data
The verifyCheckBoxImageBasedOnLabel function requires the following Test Data:
@param1, @param2 as Label Name, Enter true/false for checked/unchecked status.

B.6.38 verifyCheckboxValueBasedOnLabel
Verifies the state of the checkbox next to the specified label.

Test Data
The verifyCheckboxValueBasedOnLabel function requires the following Test Data:
@param1, @param2 as Enter label name, Enter true or false to Check or uncheck.

B.6.39 verifyDocumentNumberDetails
Verifies whether or not the document number fields have expected values.
Test Data
The verifyDocumentNumberDetails function requires the following Test Data:
@param1, @param2 as Enter Label Name, Enter value.

B.6.40 verifyEditValueBasedOnLabel
Verifies the text in the textbox next to the specified label.

Test Data
The verifyEditValueBasedOnLabel function requires the following Test Data:
@param1, @param2 as Enter label name, Value to verify.

B.6.41 verifyItemPricingDetails
Verifies the Pricing details of an Item matches with expected value.

Test Data
The verifyItemPricingDetails function requires the following Test Data:
@param1, @param2 as Enter Label of Pricing Detail, Enter pricing Value.

B.6.42 verifyRequisitionNumber
Verifies whether Requisition number is in the expected format.

Test Data
The verifyRequisitionNumber function requires the following Test Data:
@param1, @param2, @param3, @param4 as Enter Prefix, Enter agencyIdentifier, Enter allowedRange, Enter delimiter.

B.6.43 verifySelectValueBasedOnLabel
Verifies the selected option in the Selectbox next to the specified label.

Test Data
The verifySelectValueBasedOnLabel function requires the following Test Data:
@param1, @param2 as Enter label name, Value to verify.

B.6.44 verifyTextAreaValueBasedOnLabel
Verifies the text in the textarea next to the specified label.

Test Data
The verifyTextAreaValueBasedOnLabel function requires the following Test Data:
@param1, @param2 as Enter label name, Value to verify.

B.6.45 verifyValueBasedOnLabel
Verifies a value in the specified type of component next to the label specified that matches with the expected value.
Test Data
The verifyValueBasedOnLabel function requires the following Test Data:
@caption, @param1, @param2 as Type of the Component, Value to Verify.

B.7 pROJLIB Function Library

The pROJLIB function library is used to develop component code and flows for Projects applications.

B.7.1 formsMinMaxViewOutput
Verifies a forms minimum/maximum output.

Test Data
The formsMinMaxViewOutput function requires the following Test Data:
@param1, @param2 as Item, Target Column Name.

B.7.2 leaseOpenAccountingPeriod
Opens the Lease accounting period from specific start to end periods.

Test Data
The leaseOpenAccountingPeriod function requires the following Test Data:
@param1, @param2 as start period, end period.

B.7.3 refreshPaymentProcessRequest
Refresh payment process request.

Test Data
The refreshPaymentProcessRequest function requires the following Test Data:
@param1, @param2, @param3, @param4, @param5, @param6 as refreshButtonName,
requestSourceColName, requestSourceColValue, referenceSourceColName,
referenceSourceColValue, StatusToBeVerified.

B.7.4 webImgVerfyCheckBox
Verifies the image label of a checkbox.

Test Data
The webImgVerfyCheckBox function requires the following Test Data:
@param1 as Image Label.

B.7.5 webSelectCheckBoxFromLOV
Select Checkbox in the table queried by the List of Values: Used specifically for selecting Planning Resources in 12.2.

Test Data
The webSelectCheckBoxFromLOV function requires the following Test Data:
@logical, @param1, @param2, @param3, @param4 as SearchByOption, SearchValue, ColName, ValueToSelect.

B.7.6  webVerfyMergTblValBasedOnLabel
Verifies a specific concurrent request output file.

Test Data
The webVerfyMergTblValBasedOnLabel function requires the following Test Data:
@param1 as Search Column Cell Value.

B.7.7  webVerfyTblValBasedOnLabel
Verifies a specific concurrent request output file.

Test Data
The webVerfyTblValBasedOnLabel function requires the following Test Data:
@param1 as Search Column Cell Value.

B.8  sCMLIB Function Library
The sCMLIB function library is used to develop component code and flows for Supply Chain Management applications.

B.8.1  disableInterCompanyRecord
Disable the intercompany records for the specified organizations and end dates.

Test Data
The disableInterCompanyRecord function requires the following Test Data:
@param1, @param2, @param3, @param4 as From org, end org, flow type, end date.

B.8.2  getDeliveryNumber
Gets the delivery number from the Ship Confirm Request string.

Test Data
The getDeliveryNumber function requires the following Test Data:
@param1 as Ship Confirm Request String.

B.8.3  getExpenditureGroup
Get the expenditure group.

Test Data
The getExpenditureGroup function requires the following Test Data:
@param1 as Enter expenditureGroupRowindex.

B.8.4  getLPNNameFromLog
Picks LPN number from Log file which is in 'Defined but Not used' status.
Test Data
The getLPNNameFromLog function does not require Test Data.

B.8.5 getLPNNumber
Select a specific serial number from the specified list.

Test Data
The getLPNNumber function requires the following Test Data:
@param1, @param2 as From LPN, LPN Index.

B.8.6 getShipConfirmReqIds
Capture request id's after Ship Confirm.

Test Data
The getShipConfirmReqIds function requires the following Test Data:
@param1, @param2, @param3 as Ship Confirm Request String, Before, After.

B.8.7 getTripStopReqId
Gets the Trip stop request number.

Test Data
The getTripStopReqId function requires the following Test Data:
@param1 as Ship Confirm Request String.

B.8.8 selectDayInMonth
Selects a day in a month.

Test Data
The selectDayInMonth function requires the following Test Data:
@param1 as Enter Day.

B.8.9 setTextInDualField
Sets the specified value to the Itemfield value in a Flex window.

Test Data
The setTextInDualField function requires the following Test Data:
@logical, @param1, @param2 as Enter label with commas, Enter testdata with commas.

B.8.10 unexpectedPopUp
Clicks the OK button on the popup window.

Test Data
The unexpectedPopUp function does not require Test Data.
**B.8.11 verifyLabelContextXMLData**  
Verifies the XML output in the Label Content field in the Label request History Page.

**Test Data**  
The verifyLabelContextXMLData function requires the following Test Data:  
@logical, @param1, @param2 as Name attribute values of variable tag, Variable tag values.

**B.9 tELNETLIB Function Library**  
The tELNETLIB function library is used to develop component code and flows for Telnet applications.

**B.9.1 buttonPress**  
Presses Enter in a Telnet window.

**Test Data**  
The buttonPress function does not require Test Data.

**B.9.2 changeOrg**  
Changes the organization in a Telnet session.

**Test Data**  
The changeOrg function requires the following Test Data:  
@param1 as Org.

**B.9.3 close**  
Closes a Telnet session.

**Test Data**  
The close function does not require Test Data.

**B.9.4 commit**  
Commits the transaction in a Telnet window.

**Test Data**  
The commit function does not require Test Data.

**B.9.5 commitAndVerify**  
Commits the transaction and verifies the status bar message in a Telnet window.

**Test Data**  
The commitAndVerify function requires the following Test Data:  
@param1 as Expected StatusBar Text.
B.9.6 commitExpandAndVerify

Commits the transaction and verifies the complete status bar message in a Telnet window.

Test Data
The commitExpandAndVerify function requires the following Test Data:
@param1 as Expanded Verify Message.

B.9.7 connect

Connects to a Telnet window.

Test Data
The connect function requires the following Test Data:
@param1, @param2 as Host, Port.

B.9.8 ctrl

Presses the specified key combined with the Ctrl key in a Telnet window.

Test Data
The ctrl function requires the following Test Data:
@param1 as Key.

B.9.9 ctrlAndEnter

Presses Ctrl and Enter the specified message on the Telnet window.

Test Data
The ctrlAndEnter function requires the following Test Data:
@param1 as Message.

B.9.10 esc

Presses the Escape key on a Telnet window.

Test Data
The esc function does not require Test Data.

B.9.11 expandVerifyStatusBarValue

Expands and verifies if the status bar value the specified message.

Test Data
The expandVerifyStatusBarValue function requires the following Test Data:
@param1 as Expanded Verify Message.

B.9.12 getcurrField

Gets the title of the current field.
**Test Data**
The `getCurrField` function does not require Test Data.

Gets the value from the current field in a Telnet window.

**Test Data**
The `getCurrField` function does not require Test Data.

**B.9.13 getFieldValue**
Gets the field value from a Telnet window.

**Test Data**
The `getFieldValue` function does not require Test Data.

**B.9.14 getFullStatus**
Gets the complete status bar message from a Telnet window.

**Test Data**
The `getFullStatus` function does not require Test Data.

**B.9.15 getPreviousField**
Gets the title of the previous field in a Telnet screen.

**Test Data**
The `getPreviousField` function does not require Test Data.

**B.9.16 getScreen**
Gets a Telnet screen's content.

**Test Data**
The `getScreen` function does not require Test Data.

**B.9.17 getStatusBar**
 Gets the status bar message of a Telnet window.

**Test Data**
The `getStatusBar` function does not require Test Data.

**B.9.18 gotoTopField**
Goes to the top field in a Telnet window.

**Test Data**
The `gotoTopField` function does not require Test Data.
B.9.19  initializeTelnetService
Initializes the Telnet session before login.

Test Data
The initializeTelnetService function does not require Test Data.

B.9.20  login
Logs in to Telnet session with the specified username and password.

Test Data
The login function requires the following Test Data:
@param1, @param2 as Username, Password.

B.9.21  logout
Logs out from a Telnet session.

Test Data
The logout function does not require Test Data.

B.9.22  navigateByName
Navigates to the specified path.

Test Data
The navigateByName function requires the following Test Data:
@param1 as Resp.

B.9.23  selectOption
Selects an option from the list of options present in a Telnet window.

Test Data
The selectOption function requires the following Test Data:
@param1 as Option.

B.9.24  set
Enters the specified value in the current field in a Telnet window.

Test Data
The set function requires the following Test Data:
@param1 as Value.

B.9.25  setScreenBufferTime
Sets the screen buffer time in milliseconds.

Test Data
The setScreenBufferTime function requires the following Test Data:
B.9.26 skipDown

    skips down one field in a Telnet window.

**Test Data**

    The skipDown function does not require Test Data.

B.9.27 skipUp

    Skips up one field in a Telnet window.

**Test Data**

    The skipUp function does not require Test Data.

B.9.28 sleep

    Waits for the default wait time.

**Test Data**

    The sleep function does not require Test Data.

B.9.29 switchResp

    Switches to the specified responsibility in a Telnet window.

**Test Data**

    The switchResp function requires the following Test Data:

    @param1 as Resp.

B.9.30 verifyFieldValue

    Verifies the specified value for the field in a Telnet window.

**Test Data**

    The verifyFieldValue function requires the following Test Data:

    @param1, @param2 as Verify field label name, Expected value to verify.

B.9.31 verifyStatusBarValue

    Verifies the status bar message in a Telnet window.

**Test Data**

    The verifyStatusBarValue function requires the following Test Data:

    @param1 as Expected status bar message.

B.9.32 waitForActionComplete

    Waits for the current action to be completed in a Telnet window.
**Test Data**
The waitForActionComplete function does not require Test Data.

**B.9.33 waitForScreen**
Waits for the screen until the text appears on the Telnet window.

**Test Data**
The waitForScreen function requires the following Test Data:
@param1, @param2 as Text, Time.

**B.9.34 waitForTitle**
Waits for the Telnet window until the title appears.

**Test Data**
The waitForTitle function requires the following Test Data:
@param1, @param2 as Title, Time.

**B.10 wEBTABLELIB Function Library**
The wEBTABLELIB function library is used to develop component code and flows for Web Table applications.

**B.10.1 CLICKIMAGE**
Clicks the Web table image object.

**Test Data**
The CLICKIMAGE function does not require Test Data.
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