# Oracle® Banking Corporate Lending

## Test Case Management



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# Contents


## Preface

Purpose i
Acronyms and Abbreviations i
Audience i
Critical Patches ii
Conventions ii
Diversity and Inclusion ii
Documentation Accessibility ii
Related Resources iii
Screenshot Disclaimer iii

## 1 Overview of Test Case Management

## 2 Features of Development Workbench

## 3 Block Detail Upload

## 4 Excel Template Generation

## 5 Test Case Definition

5.1 Test Case Upload 4
5.2 Create Request 7
5.3 Test Case Execution 7
5.4 Run Chart Master 8
5.5 Derivation 12

## 6 Migration of Data using TCM Tool




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# Preface

This topic contains the following sub-topics:


- Purpose
- Acronyms and Abbreviations
- Audience
- Critical Patches
- Conventions
- Diversity and Inclusion
- Documentation Accessibility
- Related Resources
- Screenshot Disclaimer


## Purpose

This manual is designed to help acquaint you with the Test Case Management module in Oracle FLEXCUBE Universal Banking Development Workbench for Universal Banking. This manual helps the developers or testers on using this feature.

## Acronyms and Abbreviations

**Table 1 Acronyms and Abbreviations**

| Acronyms | Abbreviations |
|---|---|
| FCUBS | Oracle FLEXCUBE Universal Banking Solution |
| OBCL | Oracle Banking Corporate Lending |
| ODT | Oracle Development Tool |

## Audience

This document is intended for Oracle FLEXCUBE Universal Banking Application developers/ users that use Development Workbench to develop various Oracle FLEXCUBE Universal Banking components. To use this manual, the user needs a conceptual and working knowledge of the below:



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**Table 2 Proficiency Details**

| Proficiency | Resources |
|---|---|
| Oracle FLEXCUBE Universal Banking Technical Architecture | Training programs from Oracle Financial Software Services. |
| Working knowledge of Web based applications | Self Acquired |
| Working knowledge of Oracle Database | Oracle Documentations |

# Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at Critical Patches, Security Alerts and Bulletins. All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by Oracle Software Security Assurance.

# Conventions

The following text conventions are used in this document:

**Table 3 Conventions**

| Convention | Meaning |
|---|---|
| **boldface** | Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary. |
| *italic* | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values. |
| `monospace` | Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter. |

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## Related Resources

For more information on any related features, refer to the following documents:

- Development Workbench - Getting Started
- Development Workbench - Administration

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1

# Overview of Test Case Management

This topic provides an overview of Test Case Management.

This tool (provided as part of Developer Workbench), which can save Test plans and execute the test cases. This is very helpful for a Testing team, where they need not do maintenance for every release. Users can execute the Run Charts and proceed with transactions.

In this tool, user can store FLEXCUBE Universal Banking Maintenance/Online Screens Test Cases into the database by uploading them in Excel sheets to the TCM tool. These Test Cases can be logically grouped to build a Run Chart to run all test cases with a single operation. The test Case Management system is designed to automate the ITRs within each release. This tool reduces a lot of time and effort for the Testing team.

The below topics explain the common administrative features of Development Workbench.

Refer to the below table for the functions of Development Workbench Admin User, Release Admin User and TCM user

**Table 1-1 Types of Admin Users**

| Admin User | Function |
|---|---|
| **Development Workbench Admin User** | The main functions of Development Workbench Admin User are:<br>• **Create a new release**<br>• **Create Release admin for the specific release** |
| **Release Admin User** | The main functions of Release Admin User are:<br>• **Creating User ID's** |
| **TCM User** | The main functions of TCM User are:<br>• **Block Detail Upload**<br>• **Test Case Definition**<br>• **Test Case Upload**<br>• **Create Request**<br>• **Test Case Execution**<br>• **Run chart Definition**<br>• **Run Chart Execution** |


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2

# Features of Development Workbench

This topic explains the systematic instructions about the features of the development workbench.

In the development workbench, refer to the following features.

- Login Screen
- Homepage
- Browser
- Windows
- Options
- Sign Out

Each function is explained in the below steps.

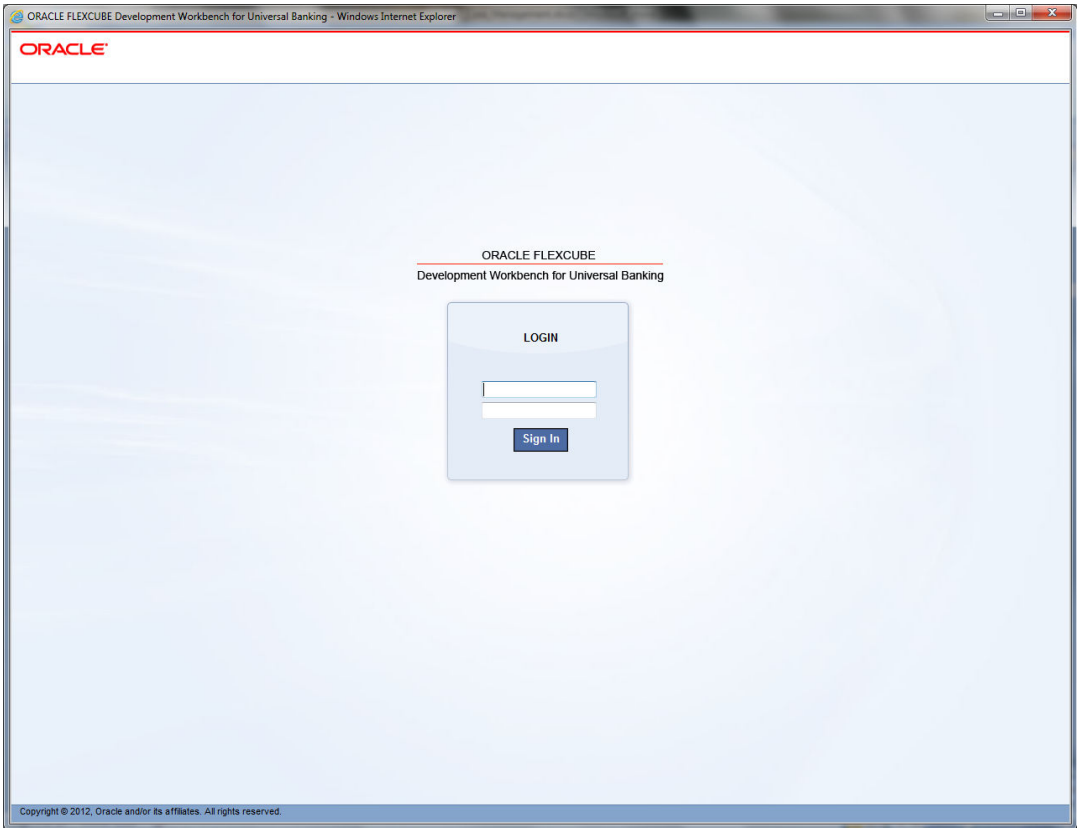
1. Launch the Development Workbench application from the start menu.

   Only the Release Administrator has the rights to create new Users. Development Workbench Admin creates a new release and assign one user as a Release admin for that release.

   The **Development Workbench Login** screen displays.


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**Figure 2-1 Login Screen**

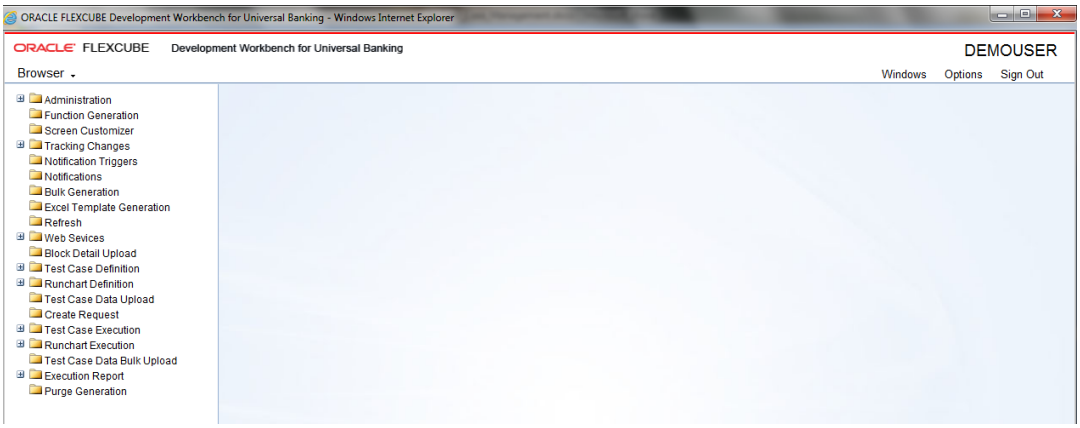



> **Note**
>
> User should make sure that the same User ID is created in FLEXCUBE.

2. Specify the **User ID**, **Password** and click on **Sign In**.

   The **Development Workbench Homescreen** displays.

**Figure 2-2 Homescreen**



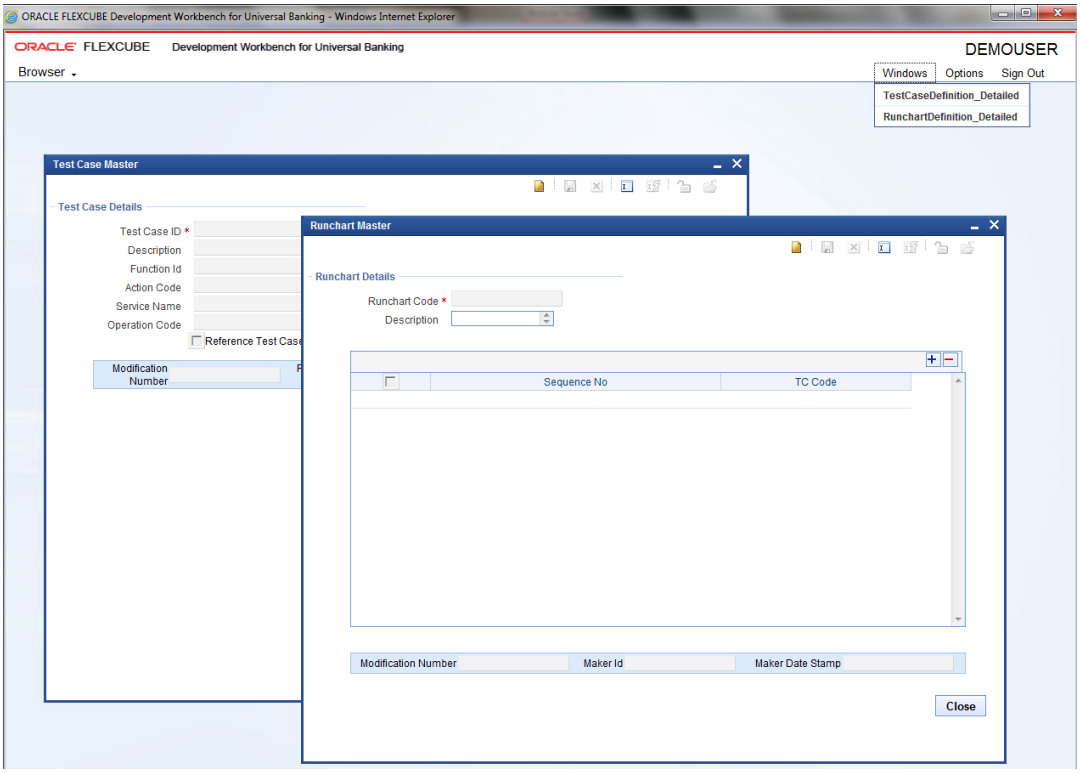

3. On the **Homescreen**, to view the menu, click on **Browser**.


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4. To swap the open windows in the application on the **Homescreen**, click on **Windows**.

   The **Windows** screens displays.

**Figure 2-3 Windows**




5. On the **Homescreen**, to view the available options, click on **Options**. The available options are:

   a. User Preferences

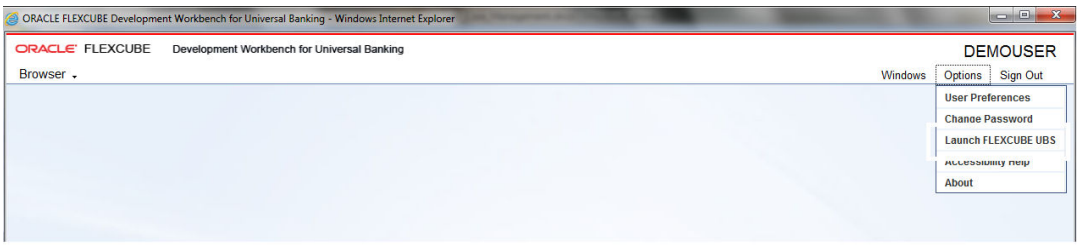
   b. Change Password

   c. Launch FLEXCUBE UBS

   d. Accessibility Help

   e. About

**Figure 2-4 Options**




6. To launch the FCUBS application, click on **Launch FLEXCUBE UBS** under **Options**.

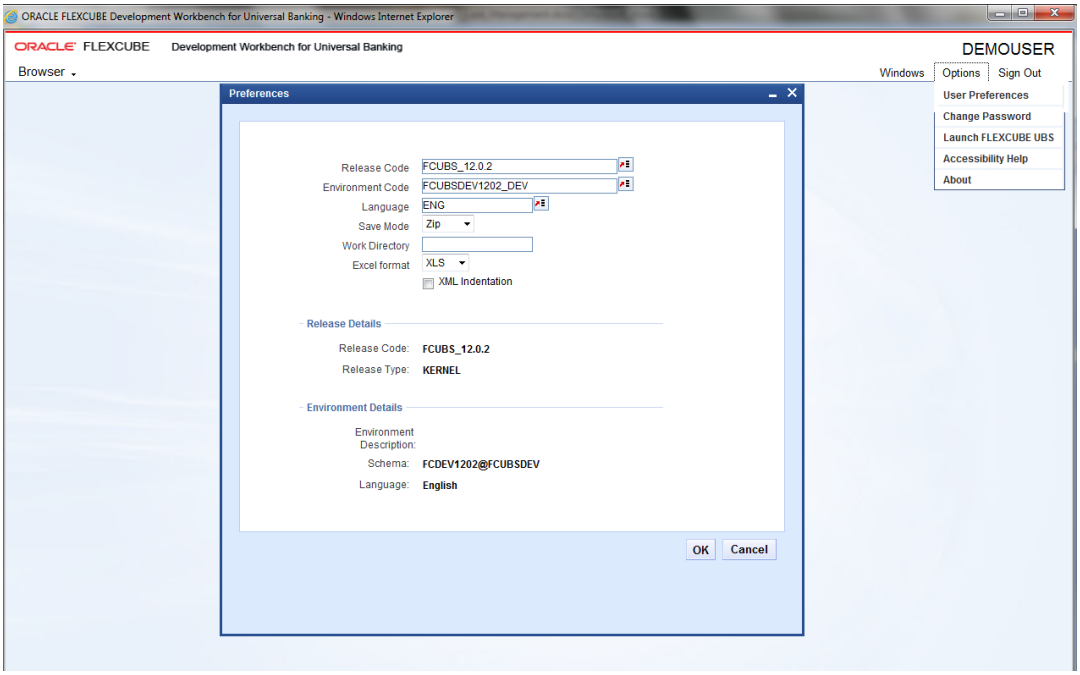
   The FCUBS link is given at the time of Release creation which can be modified at any release stage by the release Admin.


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7. To launch the User Preferences, click on **User Preferences** under **Options**.

   The **Preferences** screen displays.

**Figure 2-5 Preferences**

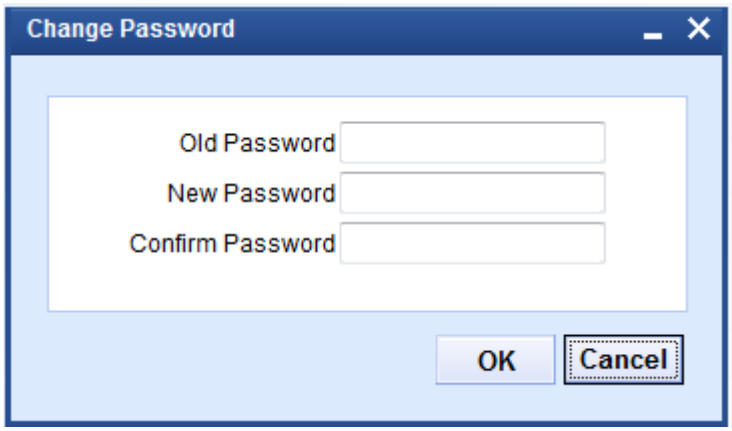



8. The Preferences screen displays the current user release and schema details. To switch between releases and environments, click the **User Preferences** option.
9. Click **Choose** next to Release code and Environment code. The user can view the releases and the corresponding environments and map accordingly.
10. Click **OK**.

    **Preferences** screen is closed.
11. To change the password, click **Change Password** option under **Options**.

    The **Change Password** pop-up window displays.

**Figure 2-6 Change Password**





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12. On the **Change Password** pop-up window, specify the fields.

    For more information on fields, refer to the field description table.

**Table 2-1 Change Password**

| Field | Description |
|---|---|
| **Old Password** | Specify the existing password. |
| **New Password** | Specify the New Password. |
| **Confirm Password** | Re-enter the New Password. |

13. Click **OK**.

    The **Password** is changed.

14. To Sign Out of TCM, click on **Sign Out**.

    The **Login** page displays.


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# 3
# Block Detail Upload

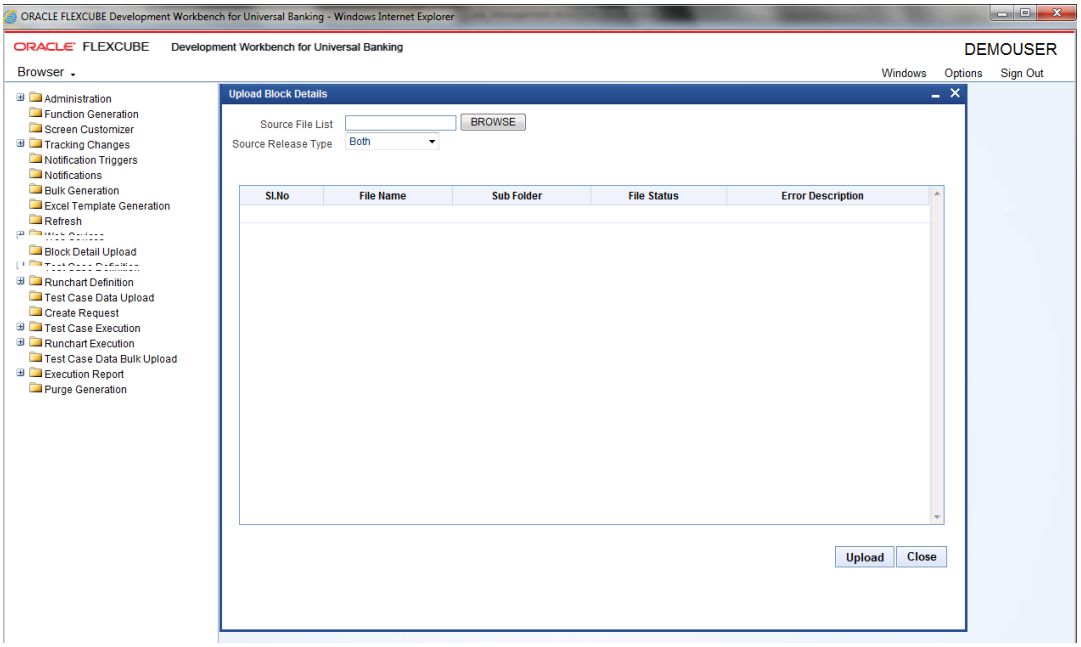
This topic explains the systematic instructions to upload block details. This screen helps users extract the details from the function Ids _RAD.xml files.

the Upload Block Details screen helps users extract the details from the function Ids _RAD.xml files.

1. On the **Homescreen** under the **Browser**, click on **Block Detail Upload**.

   The **Upload Block Details** screen is displayed.

**Figure 3-1 Upload Block Details**

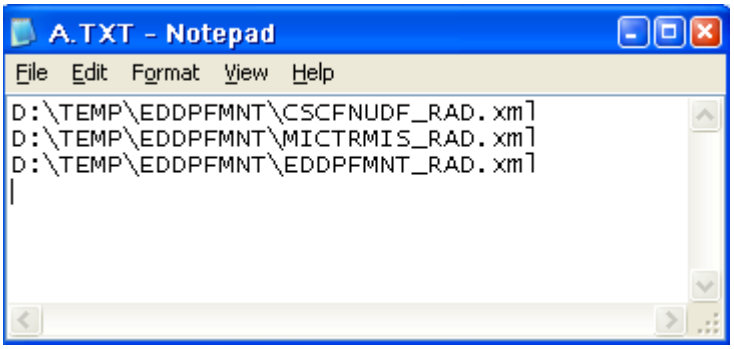



2. On the **Upload Block Details** screen, to upload the **Source File List**, click on **Browse**.
3. Select the text file and click **Open**.

   The text file contains a list of RAD XML's that must be extracted and prepared along with its call forms. The text file contains the location of the RAD XML.


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**Figure 3-2 Text File**




4. Specify the **Source Release Type** as Both from the drop-down list.
5. Click **Upload**.

> **Note**
>
> To generate a text file that contains a list of RADXML files, the user has to follow these steps:
>
> - Command Prompt > Specific folder where RADXMLS are stored >
> - `DIR /B /S >Files.txt`

> **Note**
>
> Block detail information needs to be re-generated every time there is a change in the source.

*The Call form has to be placed above the main function id in the source file list*

Bulk Details are uploaded.


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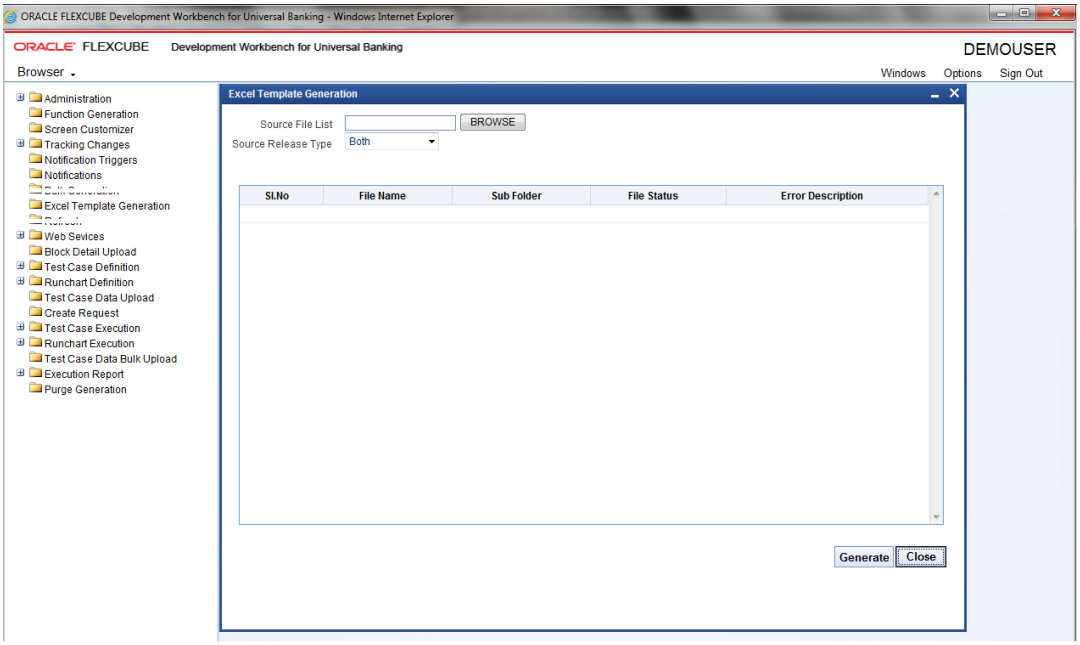
# 4 Excel Template Generation

This topic explains systematic instructions to generate Excel Template.

1. On the **Homescreen** under the **Browser**, click on **Excel template Generation**.

   The **Excel template Generation** screen is displayed.

**Figure 4-1 Excel Template Generation**




2. On the **Excel Template Generation** screen, to upload the **Source File List**, click **Browse**.
3. Select the text file and click **Open**.
4. Specify the **Source Release Type** as Both from the drop-down list.
5. Click **Generate**.

> **Note**
>
> The Excel template needs to be re-generated every time there is a change in the source after uploading the new block details.


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5

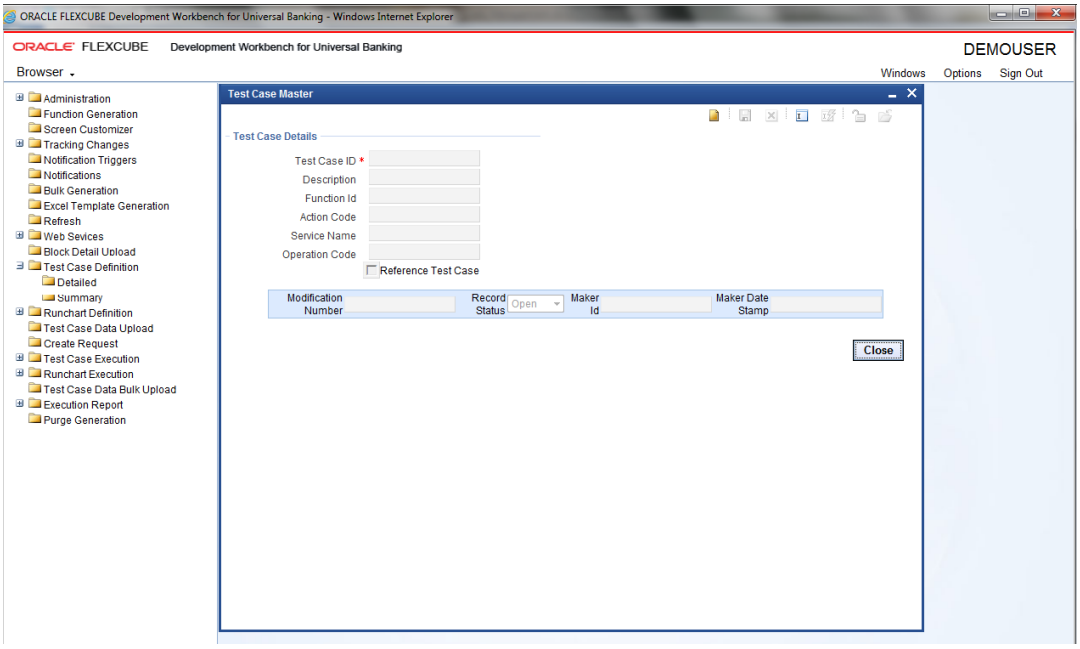
# Test Case Definition

This topic explains the systematic instructions to define the test case.

1. On the **Home Screen**, under **Browser**, expand **Test Case Definition** and click on **Detailed**.

   **Test Case Master** screen is displayed.

**Figure 5-1 Test Case Master**

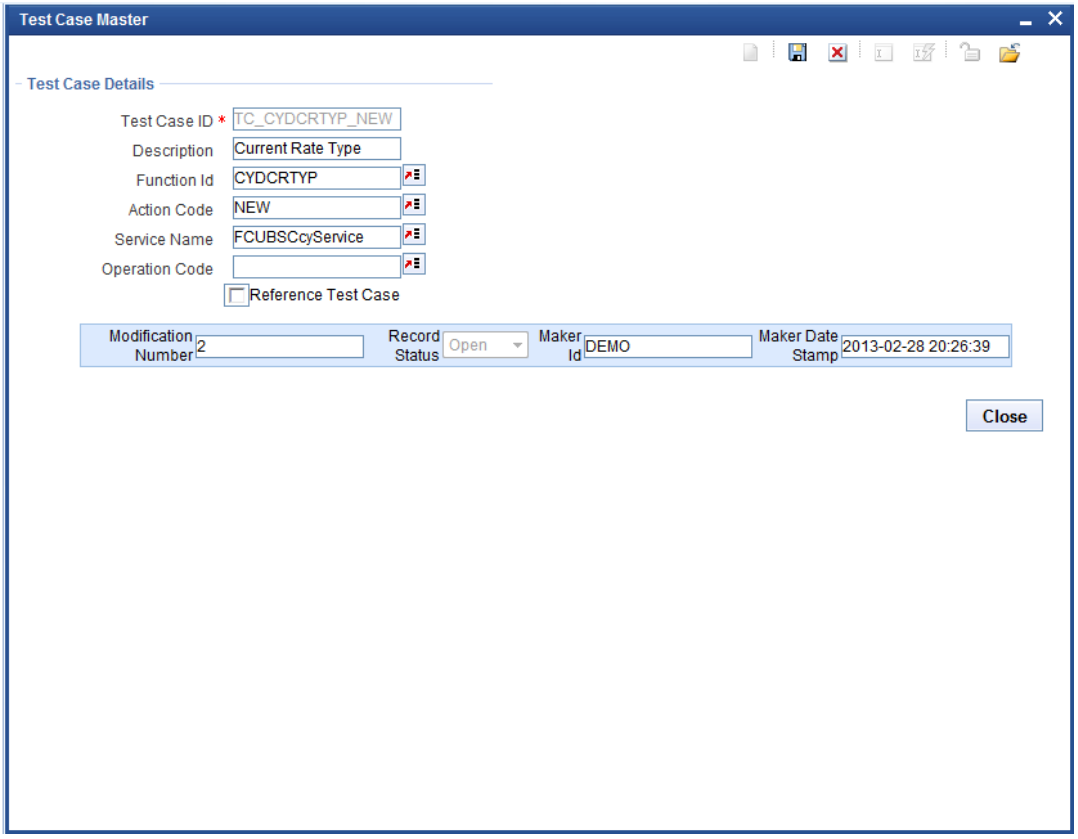



2. On the **Test Case Master** screen, to create new test case click the first command.

   **Test Case Master** screen is displayed.


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**Figure 5-2 New Test Case**




3. Click on **Save**, to save the test case details.
4. To query the data, click on the fourth command
5. To get the queried data, click on the fifth command.

> **Note**
>
> Function Id and Action code combination is used to take care of FCUBS requests, while Service Name and Operation Code is used to take care of Web Services requests.

6. Click on **Close** button.

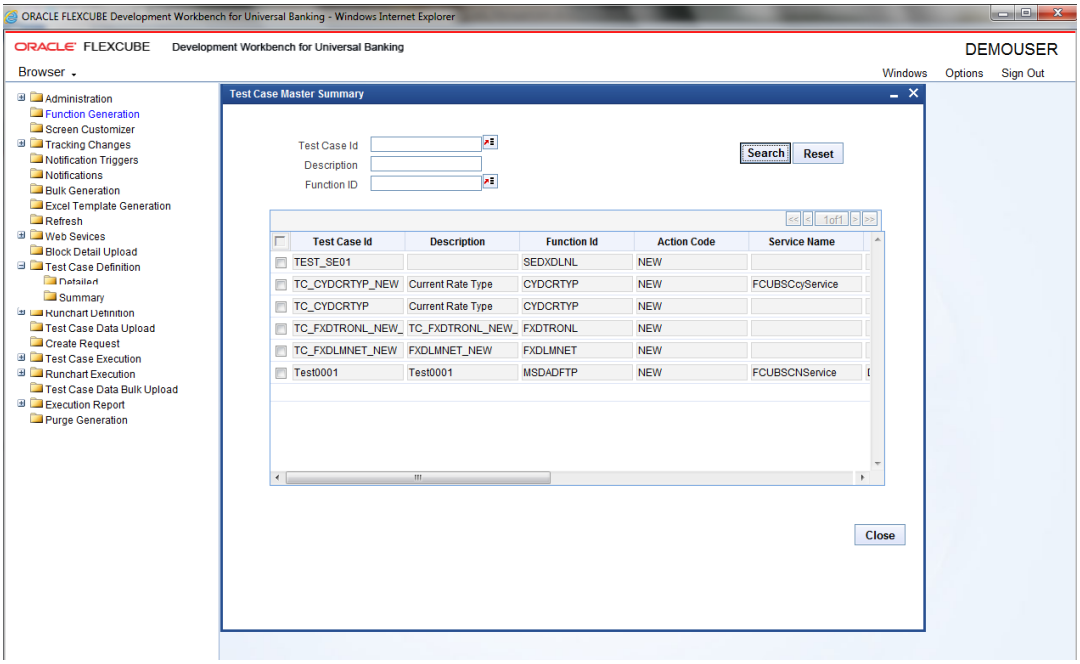
   **Test Case Master** screen is closed.

7. On the **Home Screen**, under **Browser**, expand **Test Case Definition** and click on **Summary**.

   **Test Case Master Summary** screen is displayed.


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**Figure 5-3 Test Case Master Summary**




8. On the **Test Case Master Summary** screen, by default the system displays the available test cases.
9. To search for a specific test case, specify the fields on the **Test Case Master Summary** screen.

   For more information on fields, refer to the field description table.

**Table 5-1 Test Case Master Summary**

| Field | Description |
|---|---|
| **Test Case ID** | Specify the **Test Case ID** or click the choose option. The system displays the available Test Case ID's in the system. |
| **Description** | Specify the description. |
| **Function ID** | Specify the **Function ID** or click the choose option. The system displays the available **Function ID's** in the system. |

10. After specifying any of the fields, click **Search** to view the test case.

This topic contains the following sub-topics:

- Test Case Upload
  This topic explains the systematic instructions to upload the excel template along with data.
- Create Request
  This topic describes the process to create request.
- Test Case Execution
  This topic explains the systematic instructions to execute the uploaded Test Case.
- Run Chart Master
  This topic explains the systematic instructions to add multiple test cases and make a single Run Chart to execute at


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- Derivation
  The topic provides information about derivation.

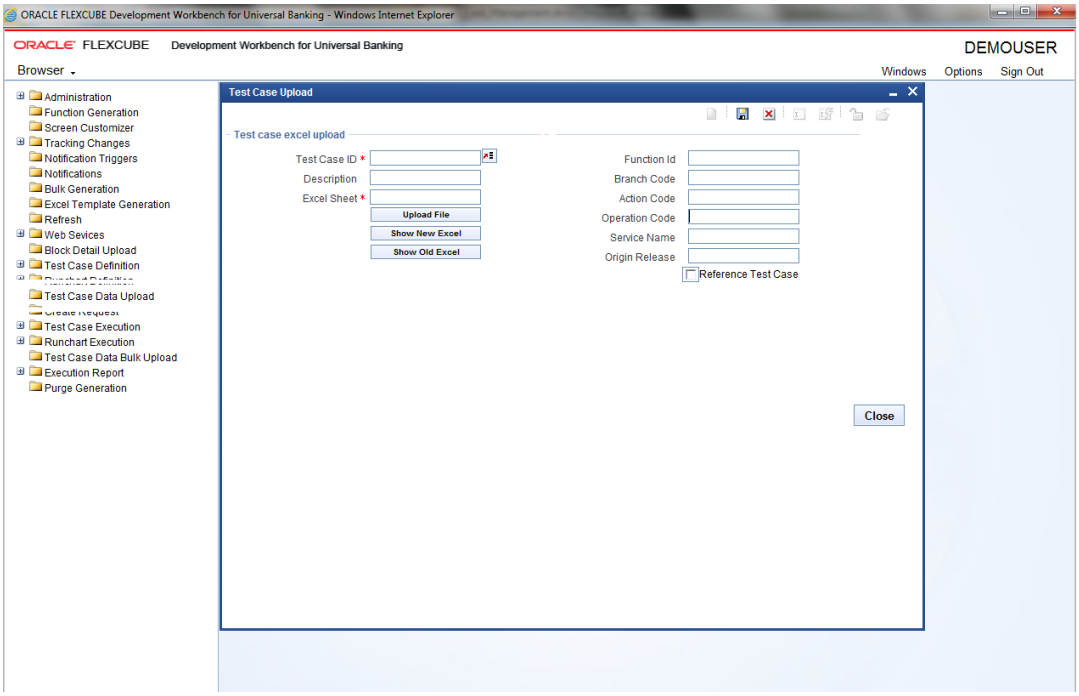
# 5.1 Test Case Upload

This topic explains the systematic instructions to upload the excel template along with data.

1. On **Homescreen**, under **Browser**, click on **Test Case Data Upload**.

   The **Test Case Upload** screen displays.

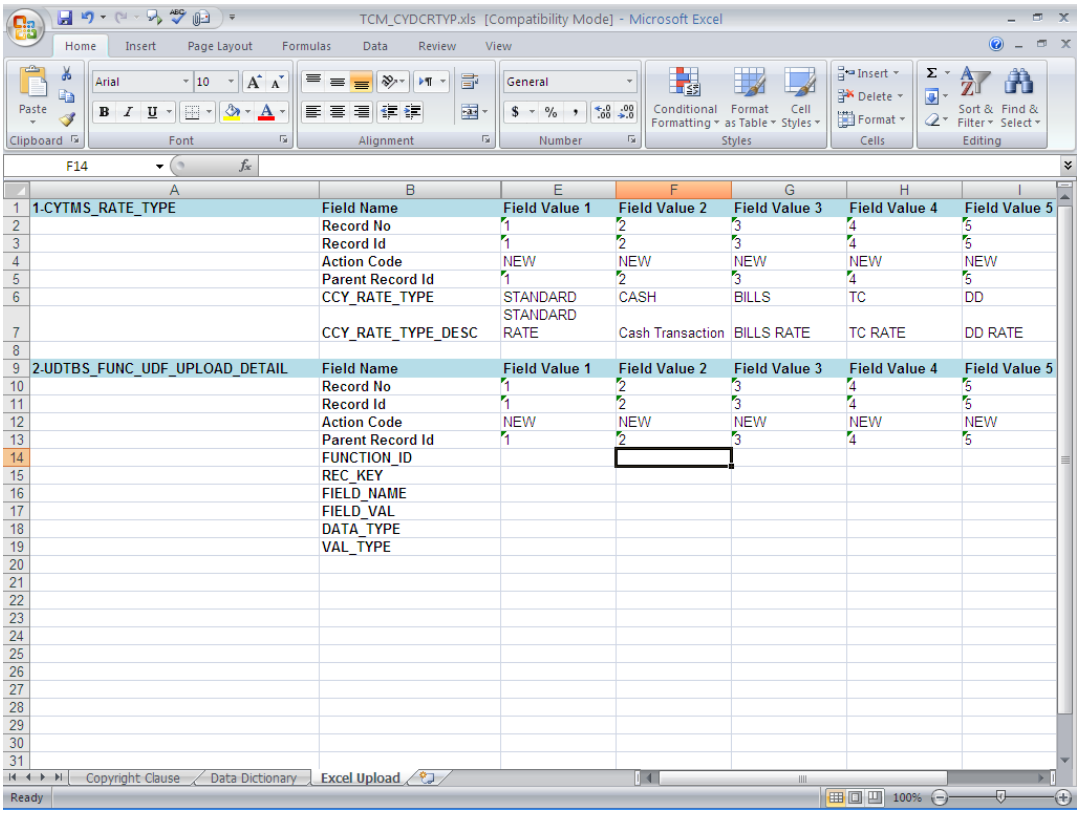
**Figure 5-4 Test Case Upload**




2. On the **Test Case Upload** screen, click the choose button **(add icon)** and select the **Test Case ID**.
3. By default, the system displays the following fields.
   - **Description**
   - **Function ID**
   - **Branch Code**
   - **Action Code**
   - **Service Name**
   - **Original Release**
   - **Operation Code (If applicable)**
4. Click on **Upload Excel** button, to upload the excel template.


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**Figure 5-5 TCM Excel Sheet**




| | A | B | E | F | G | H | I |
|---|---|---|---|---|---|---|---|
| 1 | 1-CYTMS_RATE_TYPE | Field Name | Field Value 1 | Field Value 2 | Field Value 3 | Field Value 4 | Field Value 5 |
| 2 | | Record No | 1 | 2 | 3 | 4 | 5 |
| 3 | | Record Id | 1 | 2 | 3 | 4 | 5 |
| 4 | | Action Code | NEW | NEW | NEW | NEW | NEW |
| 5 | | Parent Record Id | 1 | 2 | 3 | 4 | 5 |
| 6 | | CCY_RATE_TYPE | STANDARD | CASH | BILLS | TC | DD |
| 7 | | CCY_RATE_TYPE_DESC | STANDARD RATE | Cash Transaction | BILLS RATE | TC RATE | DD RATE |
| 8 | | | | | | | |
| 9 | 2-UDTBS_FUNC_UDF_UPLOAD_DETAIL | Field Name | Field Value 1 | Field Value 2 | Field Value 3 | Field Value 4 | Field Value 5 |
| 10 | | Record No | 1 | 2 | 3 | 4 | 5 |
| 11 | | Record Id | 1 | 2 | 3 | 4 | 5 |
| 12 | | Action Code | NEW | NEW | NEW | NEW | NEW |
| 13 | | Parent Record Id | 1 | 2 | 3 | 4 | 5 |
| 14 | | FUNCTION_ID | | | | | |
| 15 | | REC_KEY | | | | | |
| 16 | | FIELD_NAME | | | | | |
| 17 | | FIELD_VAL | | | | | |
| 18 | | DATA_TYPE | | | | | |
| 19 | | VAL_TYPE | | | | | |

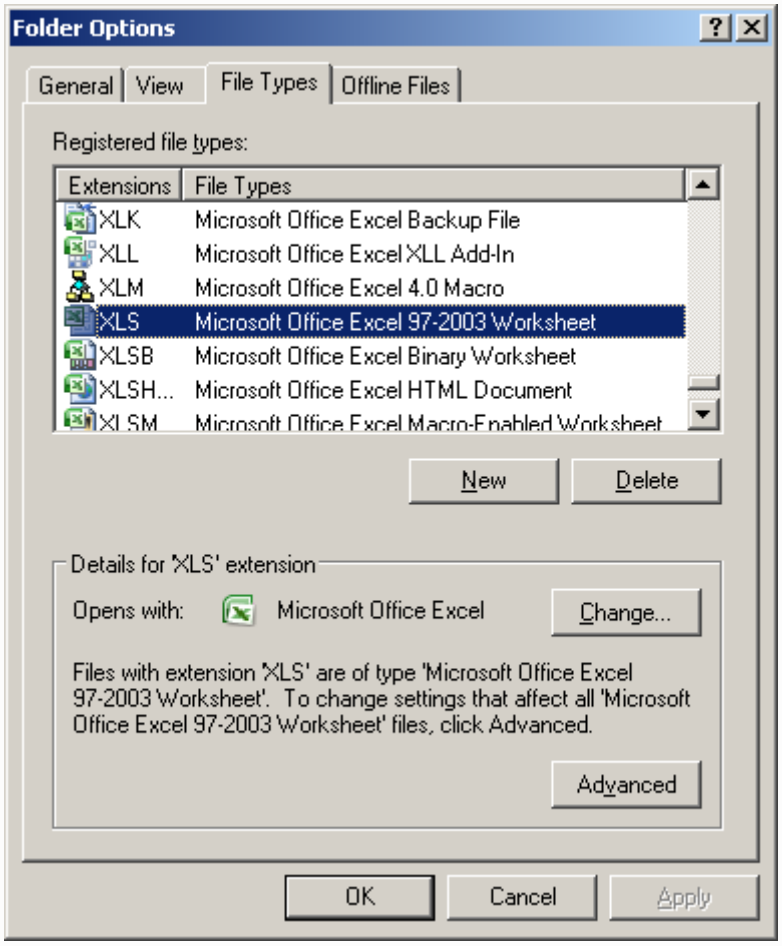
5. While uploading the excel sheet, refer the below points.
   a. The Parent Record Id in the Master Data block's sheet should be null.
   b. The Parent Record Id in Non-Master Blocks should not be null.
   c. All data needs to be input into the sheet as String only. I.e., for Date and Number fields, they need to be input with an apostrophe before the value. E.g. 2010/02/02 or 9087 etc
   d. Excel sheet should be 2003 version (File extension name should be .xls)


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**Note**

For proper display of excel sheet in the browser, user needs to ensure the following things in Windows explorer Right click the **Folder Options** and select **File Types** tab.

**Figure 5-6 Folder Options**

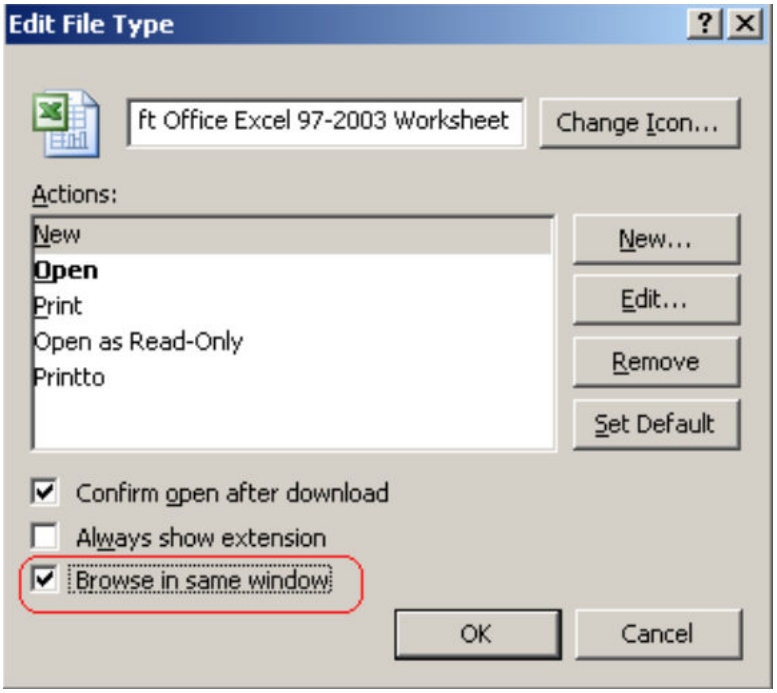



e. To browse in same window, select the extension, click on **Advanced** and select the **Browse In same window** checkbox.

The **Edit File Type** window is displayed.


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**Figure 5-7 Edit File Type**




f. Click **OK**.

**Edit File Type** window is closed.

g. Click **OK** on the **Folder Options** window.

6. On the **Test Case Upload** screen, to save the test case upload details, click on **Save**. **(Add icon)**

If multiple columns are there in the Excel sheet, TCM will create multiple Test Cases.

**TEST CASE**: COUNTRY_CODES

If the user uploads data with two columns for INDIA & USA, The system creates two test cases as:

- **COUNTRY_CODES_01** (this TC to create country - INDIA)
- **COUNTRY_CODES-02** (this TC to create country - USA)

# 5.2 Create Request

This topic describes the process to create request.

The Oracle FLEXCUBE Universal Banking XML or Web service Xml can be viewed at this stage. The Xml is constructed from the Excel sheet that was uploaded in the previous stage. Only Execute Query operation is available.

# 5.3 Test Case Execution

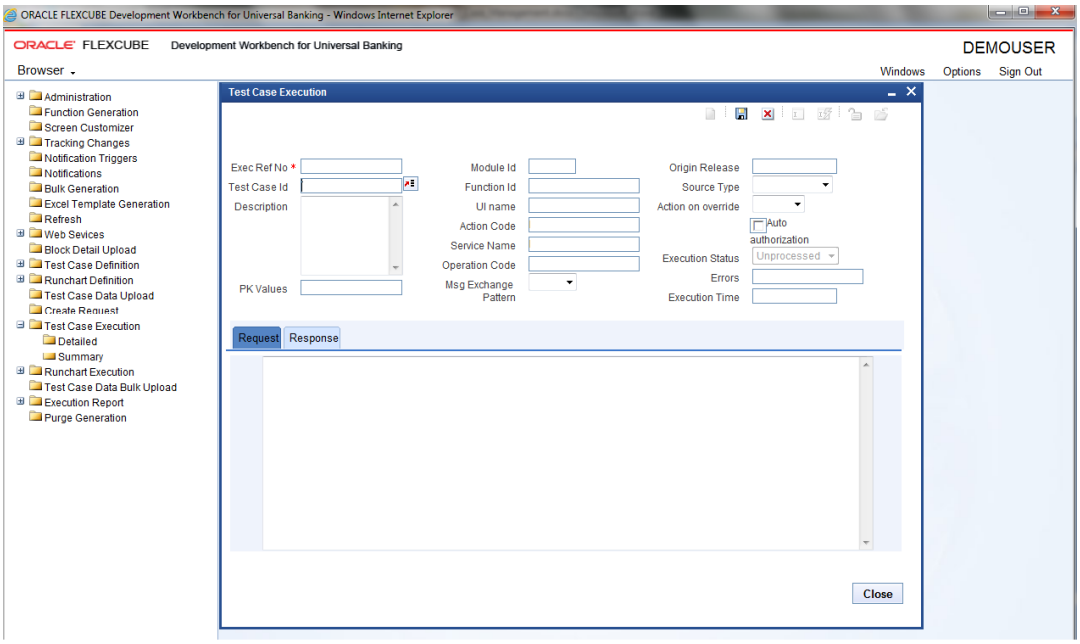
This topic explains the systematic instructions to execute the uploaded Test Case.

1. On the **Home Screen**, under **Browser**, expand **Test Case Execution** and click on **Detailed.**


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**Test Case Execution** screen is displayed.

**Figure 5-8 Test Case Execution**




2. On the **Test Case Execution** screen, specify the fields.

   For more information on fields, refer to the field description table.

**Table 5-2 Test Case Execution**

| Field | Description |
|---|---|
| **Exec Ref No** | |
| **Test Case ID** | Each execution generates a unique reference number, which is used later for viewing the status of the execution. |
| **Description** | Displays the Test Case ID description. |
| **Source Type** | Select the source type from the drop-down. It can be FLEXCUBE or Web Services, depending on whether the execution is done from FLEXCUBE or an external System. |
| **Action on override** | Users can select the applicable value from the drop-down. If overrides occur for a function id, the user can ignore those overrides or stop the execution and give an Error status. |
| **Auto Authorization** | On selecting this check box, the executed records will be authorized records. |
| **Execution Status** | Displays if the record is executed successfully or not. |

# 5.4 Run Chart Master

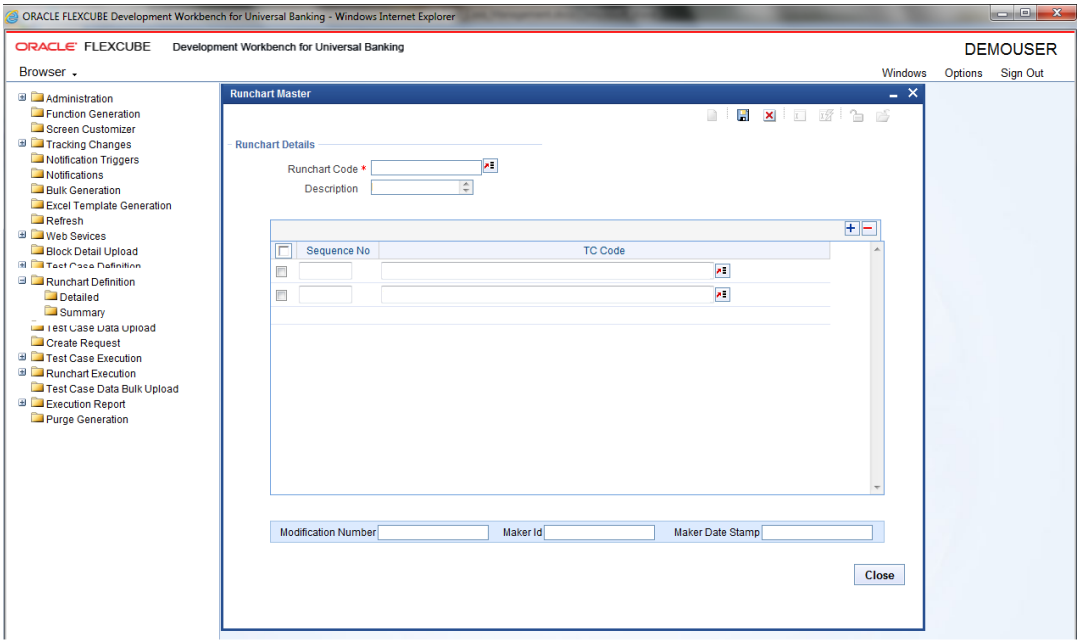
This topic explains the systematic instructions to add multiple test cases and make a single Run Chart to execute at

1. On the **Home Screen**, under **Browser**, expand **Runchart Definition** and click on **Detailed.**

   The **Runchart Master** screen is displayed.


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**Figure 5-9 Runchart Master**




2. On the **Runchart Master** screen, specify the fields

   For more information on fields, refer to the field description table.

**Table 5-3 Runchart Master**

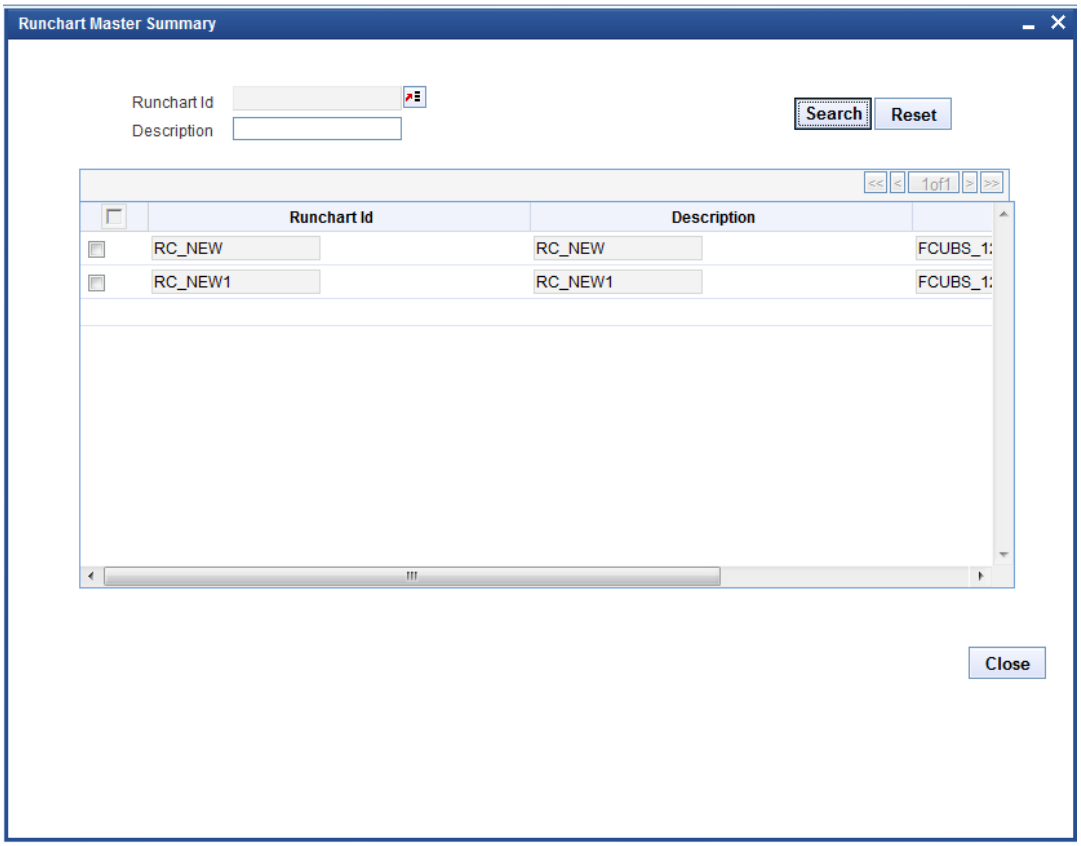
| Field | Description |
|---|---|
| **Runchart Code** | Displays the **Runchart Code**. |
| **Description** | Displays the description. |

3. Add multiple test cases and make a single Run Chart to execute all test cases at once.
4. Specify the sequence number in the TCTM_RC_MASTER, TCTM_RC_TCS table.

> **Note**
>
> The fields which are marked with asterisk red are mandatory.

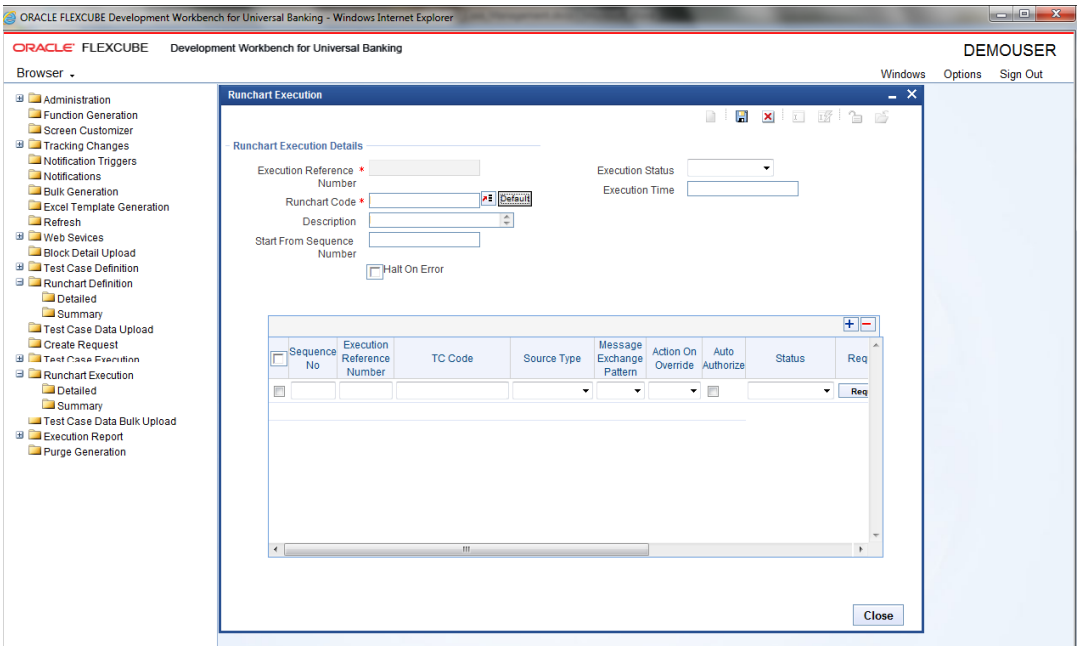

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**Figure 5-10 Run Chart Summary**




5. To execute the Run Chart, use the Runchart Execution screen.

**Figure 5-11 Run Chart Execution**





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If user does not want to execute with auto auth, uncheck the **Auto Authorize** check box in the table.

The status of execution is displayed in this screen. Users can also find the status of individual test case and the reason for failure.

**Table 5-4 Run Chart Execution - Field Description**

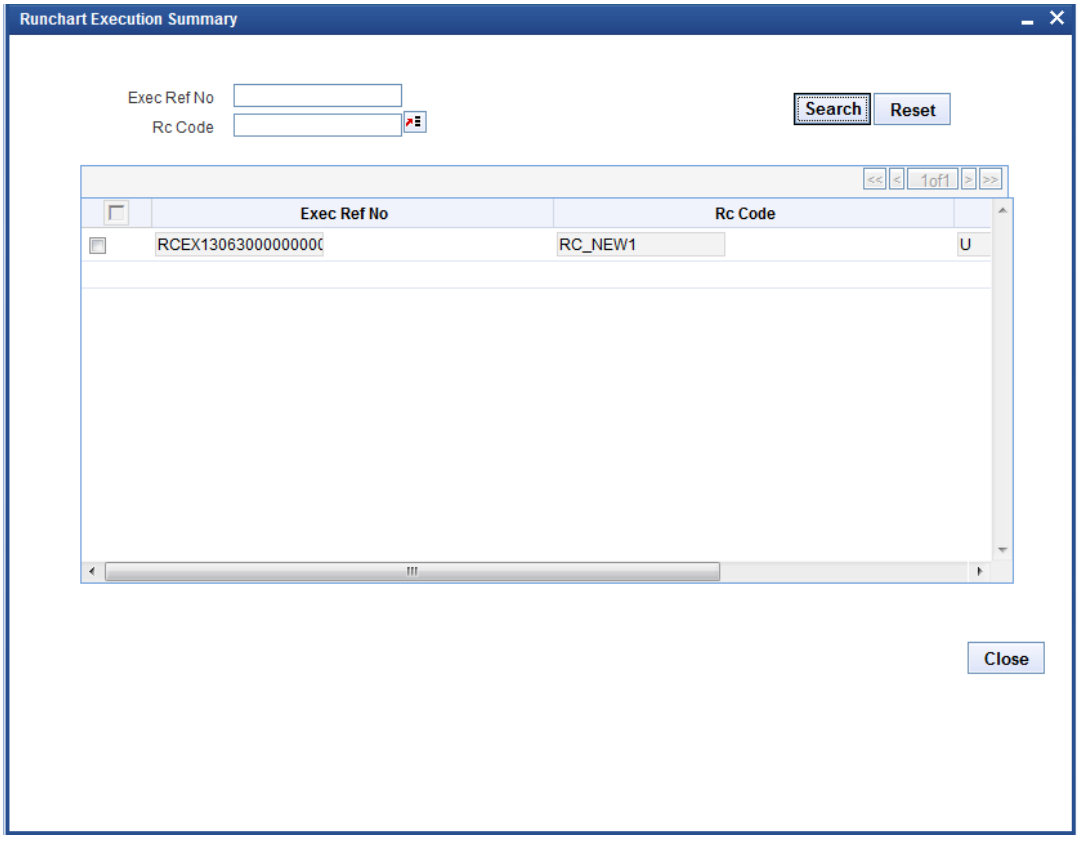
| Field | Description |
|---|---|
| **Request** | Check request which has been received by TCM. |
| **Response** | User can check the TCM response for the request on clicking this command button. |

> **Note**
>
> User can generate around 20 test-cases at a time.

The result are displayed in the below tables:

- TCTB_RC_EXEC_MASTER
- TCTB_TC_EXEC_MASTER
- TCTB_TC_CURR_DATA

**Figure 5-12 Run Chart Execution Summary**





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# 5.5 Derivation

The topic provides information about derivation.

When the input for a test case depends on the output of another test case, the application facilitates using derivation to link the input to the output of another test case.

`D:TESTCASENAME:BLOCKNAME:FIELDNAME`
Example : `D:TC_FXDTRONL_NEW_CONTRACT_FSC2:BLK_CONTRACT_MASTER:CONTREFNNO`


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6

# Migration of Data using TCM Tool

This topic explains the systematic instructions to migrate data using the TCM tool.

To achieve the migration of data from Release1 to Release2 refer to the below steps:

1. Export the data using the export to excel functionality in FCUBS.
2. Create test cases in TCM (having Release1 sources) for the function id and upload the excel sheet.
3. Create Run Chart if required to sequence the execution of the Test Cases.
4. Upload the new RADXMLs of Release 2 using the Block Detail Upload functionality.
5. Modify the test cases where there are changes in the field definition. During modification, the excel sheet would show the new fields with blank values. The TCM tool also provides a facility to modify specific records/test cases only.
6. Run the test case/run chart as appropriate. On execution, the modified data gets updated in the database.

   To migrate the data between releases is subjected to the following conditions:

   a. If a screen is non -extensible in Release 1 and gets converted to an extensible screen in Release 2, then migration of data from Release 1 to Release2 is not possible through the TCM tool.
   b. If a non-extensible screen in Release 1 remains non-extensible in Release2, then data migration through TCM Tool is possible.
   c. If an extensible screen in Release 1 remains extensible in Release2, then migration of data through TCM Tool is possible.

> **Note**
>
> If multiple releases are to be created in a single TCM schema, then the data from the base release can be migrated to the child release during the creation of the release.


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