

Oracle FLEXCUBE Universal Banking ® 12.0.2 Test Case Management

August 2013



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1 Preface

This document describes the Test Case Management module in Oracle FLEXCUBE Development Workbench for Universal Banking and guides the developers/testers on how to use this feature.

1.1 Audience

This document is intended for FLEXCUBE Application developers/users that use Developer Workbench to develop various FLEXCUBE components.

To Use this manual, you need conceptual and working knowledge of the below:

| <i>Proficiency</i> | <i>Resources</i> |
|---|--|
| FLEXCUBE Functional Architecture | Training programs from Oracle Financial Software Services. |
| FLEXCUBE Technical Architecture | Training programs from Oracle Financial Software Services. |
| FLEXCUBE Object Naming conventions | Development Overview Guide |
| Working knowledge of Web based applications | Self Acquired |
| Working knowledge of Oracle Database | Oracle Documentations |
| Working knowledge of PLSQL developer | Respective vendor documents |
| Working knowledge of PLSQL & SQL Language | Self Acquired |
| Working knowledge of XML files | Self Acquired |

1.2 Related Documents

[02-Development WorkBench Administration.pdf](#)

[03-Development WorkBench Getting Started.pdf](#)

2 Introduction

This document provides information on:

- [Chapter 2 , "Introduction"](#)
- [Chapter 3 , "Overview of Test Case Management"](#)
- [Chapter 4 , "Login"](#)
- [Chapter 5 , "Home Page"](#)
- [Chapter 6, "Block Detail Upload "](#)
- [Chapter 7 , "Excel Template Generation "](#)
- [Chapter 8 , "Test Case Definition"](#)
- [Chapter 9 , "Test Case Upload"](#)
- [Chapter 10 , "Create Request"](#)
- [Chapter 11 , "Test Case Execution"](#)
- [Chapter 12 , "Run Chart Master"](#)
- [Chapter 13 , "Run Chart Execution"](#)
- [Chapter 14 , "Derivation"](#)
- [Chapter 15 , "Migration of Data using TCM Tool "](#)

3 Overview of Test Case Management

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

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

Below sections explain the common administrative features of Development Workbench. If user is already comfortable with these, chapter 4 and 5 can be skipped

Main functions of Development Workbench Admin User:

- Creating a new release
- Creating Release admin for the specific release

Main functions of Release Admin User:

- Creating User ID's

Main functions of TCM User:

- Block Detail Upload
- Test Case Definition
- Test Case Upload
- Create Request
- Test Case Execution
- Run chart Definition
- Run Chart Execution

4 Login

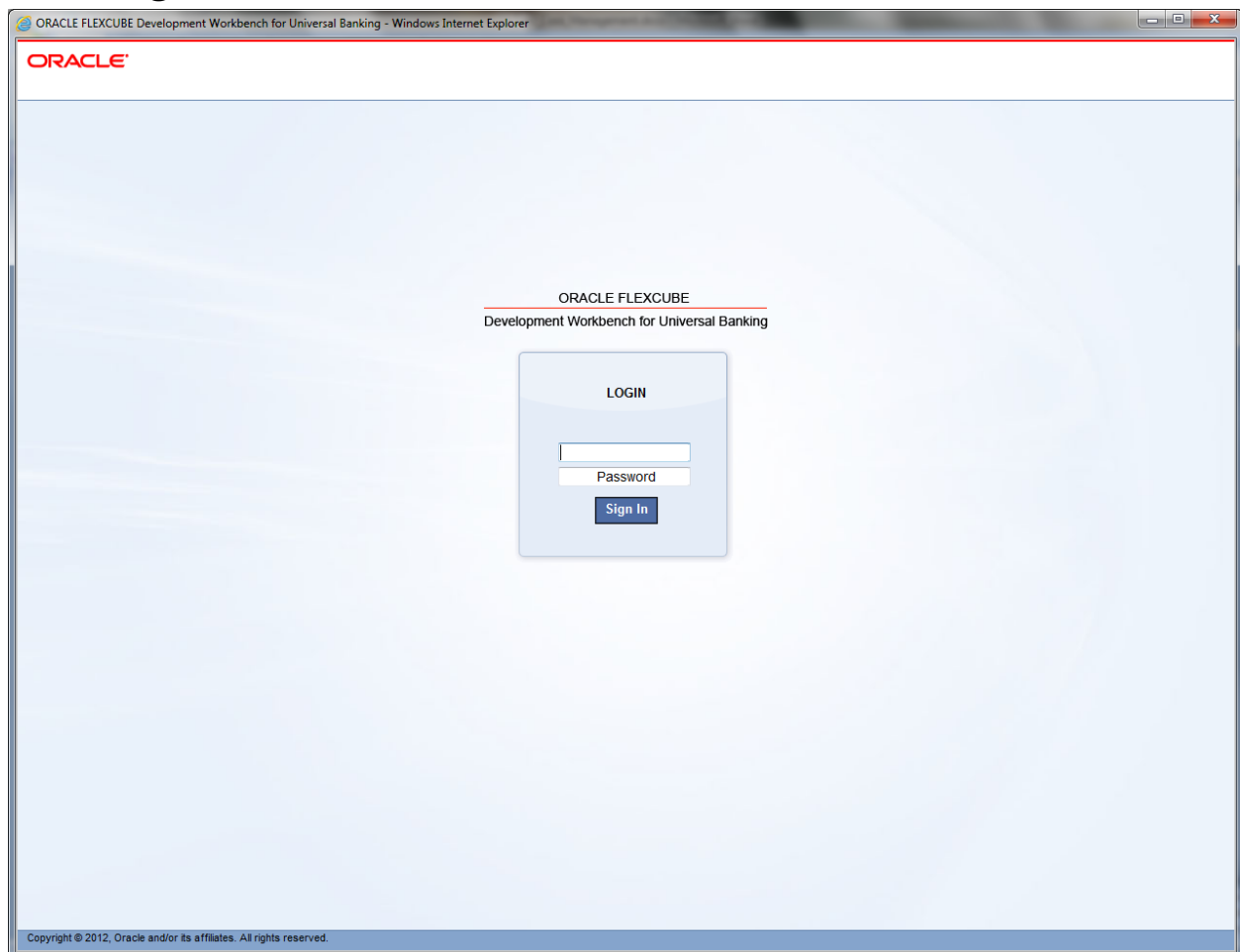


Fig 4.1: Login Screen

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

Note: User should make sure that the same User ID is created in FLEXCUBE as well.

5 Home Page

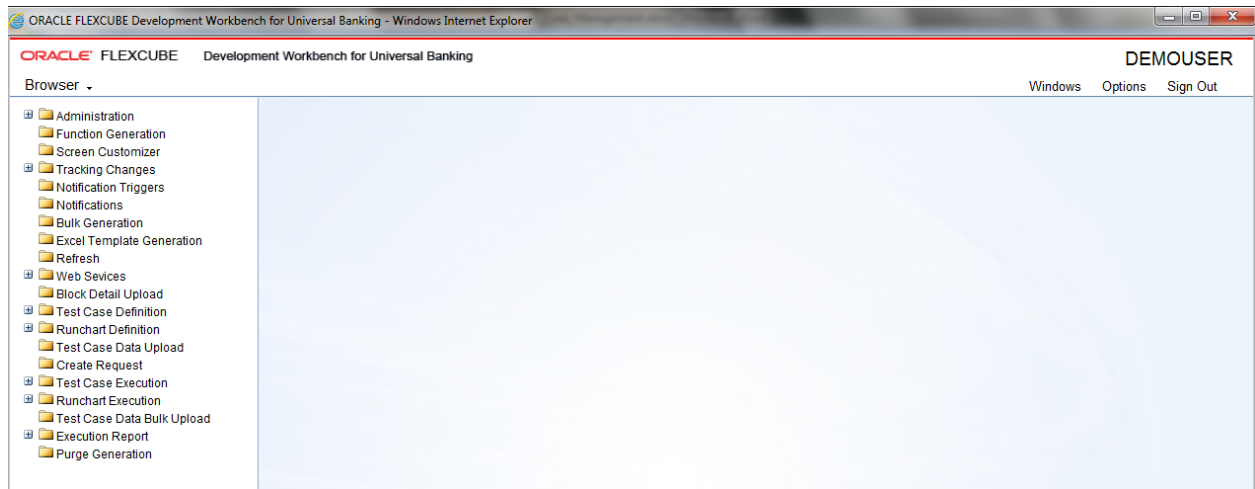


Fig 5.1: The Home Page, after clicking on Browser

5.1 Browser

In this screen user can view Menu by clicking on **Browser**.

5.2 Windows

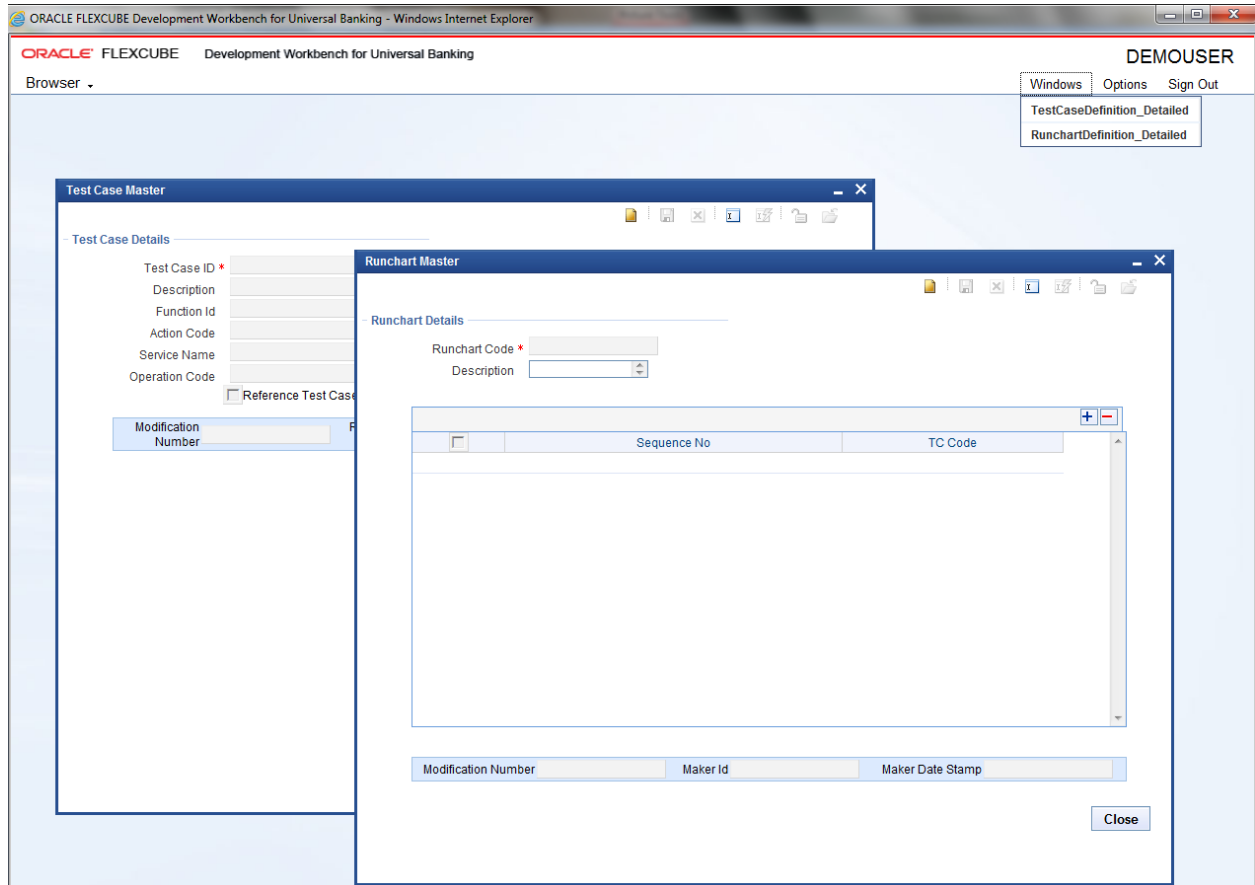


Fig 5.2.1: The open Windows

This is useful to swap between the windows.

5.3 Launch FC UBS

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

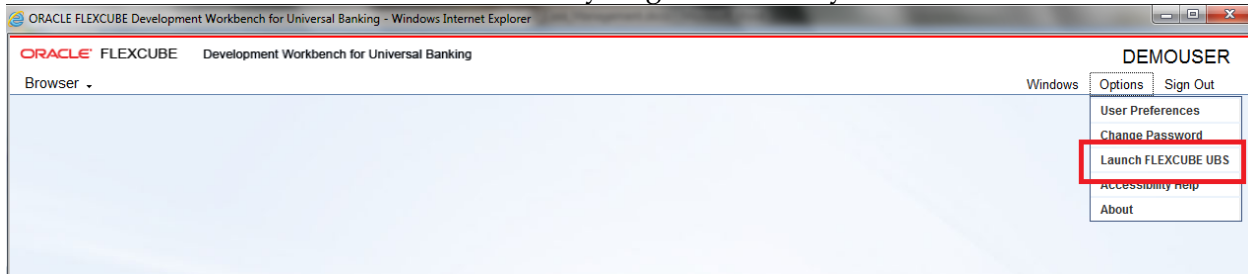


Fig 5.3.1: Launch FCUBS

5.4 User Preferences

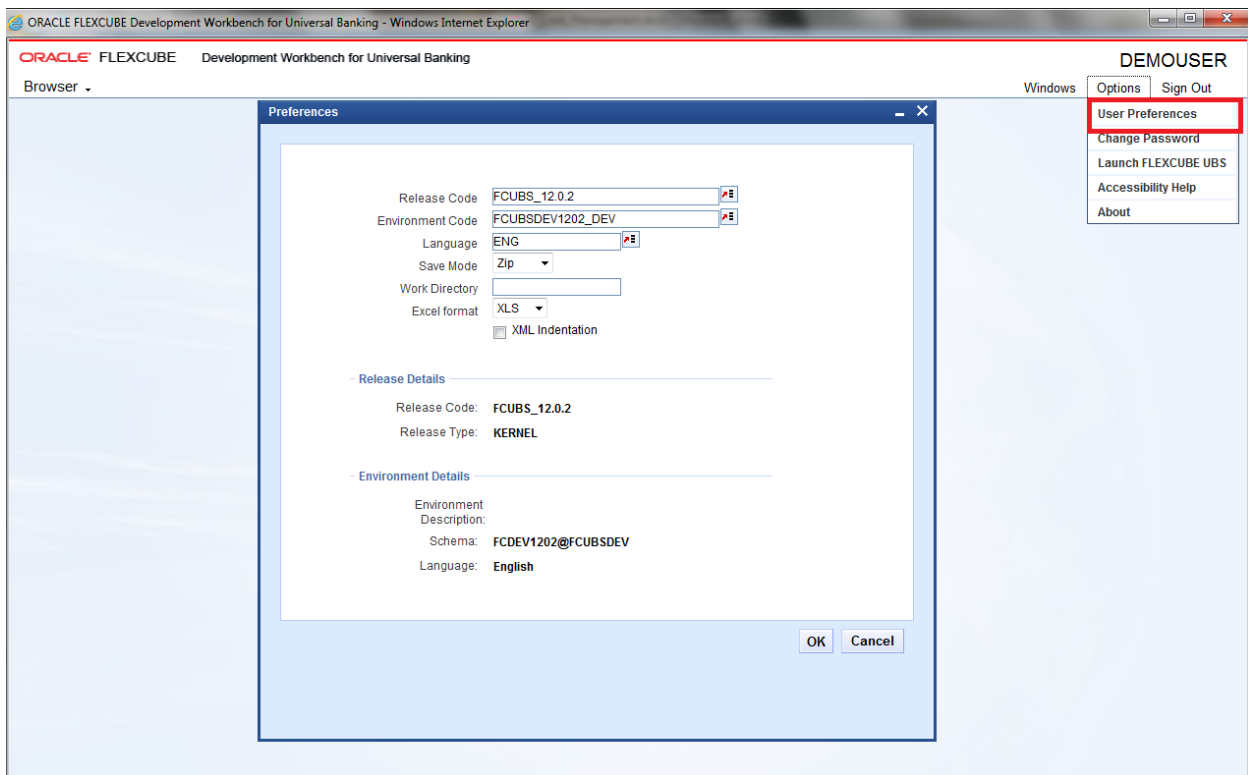


Fig 5.4.1: The User Preferences

This screen shows the current user release & schema details. User can get this information on clicking on User Preferences. User will also be able to Switch Between releases and Environments Using the User Preferences option, near the top right corner of the screen.

On clicking the Choose button, LOV buttons next to Release code and Environment code will appear and user can view the releases and the corresponding environments and can map accordingly.

5.5 Change Password

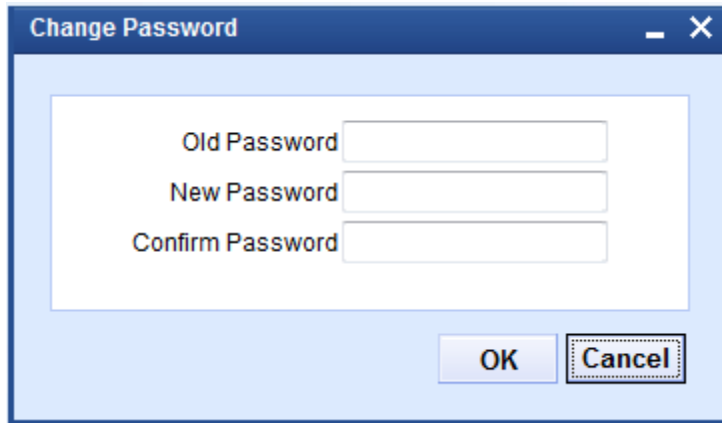
A screenshot of a 'Change Password' dialog box. The dialog has a blue title bar with the text 'Change Password' and standard window control buttons (minimize, maximize, close). The main area is white and contains three text input fields labeled 'Old Password', 'New Password', and 'Confirm Password'. At the bottom right, there are two buttons: 'OK' and 'Cancel'.

Fig 5.5.1: The Screen to Change Password

User can change password by clicking on Change Password.

5.6 Sign Out

The user can sign Out of TCM. On Successful Sign Out, the Login Page is launched.

6 Block Detail Upload

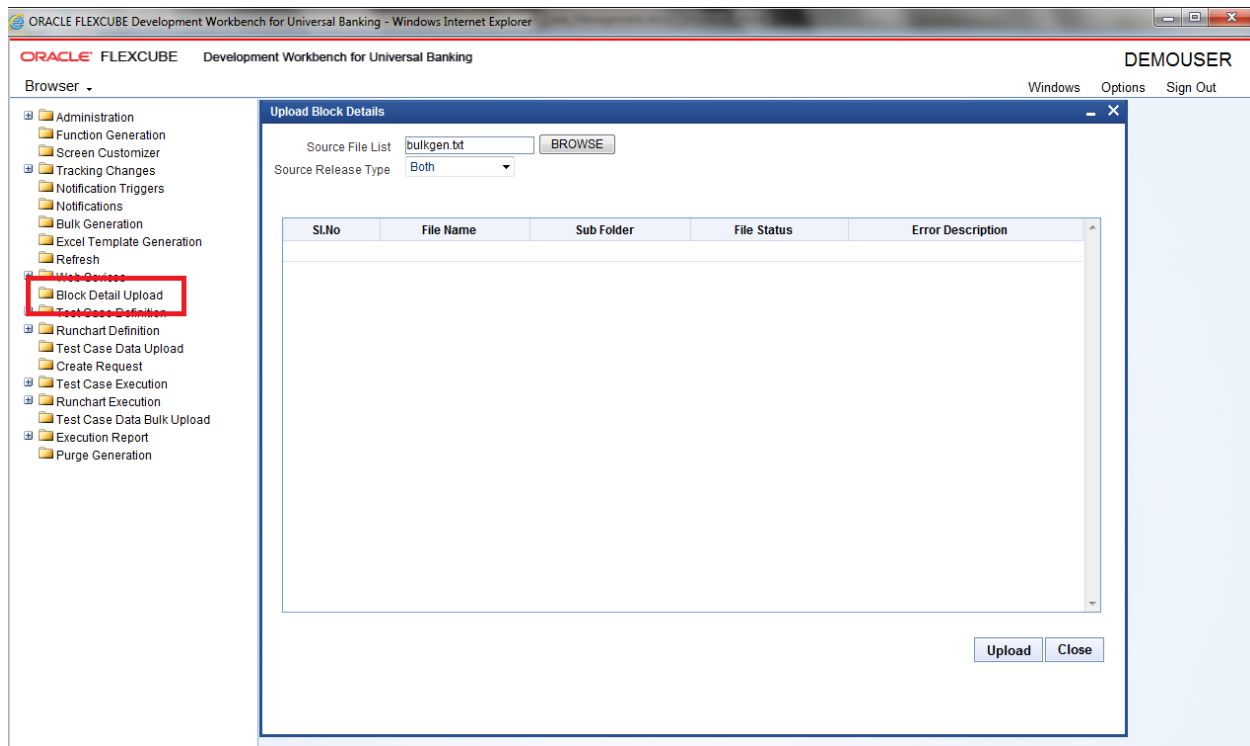


Fig 6.1: The Upload Block Details Screen

TCM internally requires the Blocks and fields Details of a function Id. These details can be extracted from the function Ids _RAD.xml through this screen. A text file containing the list of RAD XML's to be extracted has to be prepared along with all of its call forms. The text file should contain the absolute location of the RAD Xml.

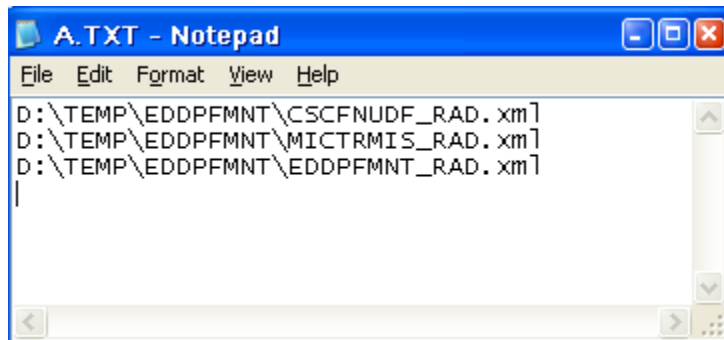


Fig 6.2: The List of RAD xmls

Note: To generate a text file which contains a list of RADXML file user has to follow these steps:

- Command Prompt > Specific folder where RADXMLS are stored >
- DIR /B /S >Files.txt

Tables: TCTM_BLOCK_DETAILS, TCTB_BLOCK_DETAILS, TCTM_FID_CALL_FORMS, TCTM_FID_FUNCTIONS, TCTM_BLOCK_IO_TAGS

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

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

7 Excel Template Generation

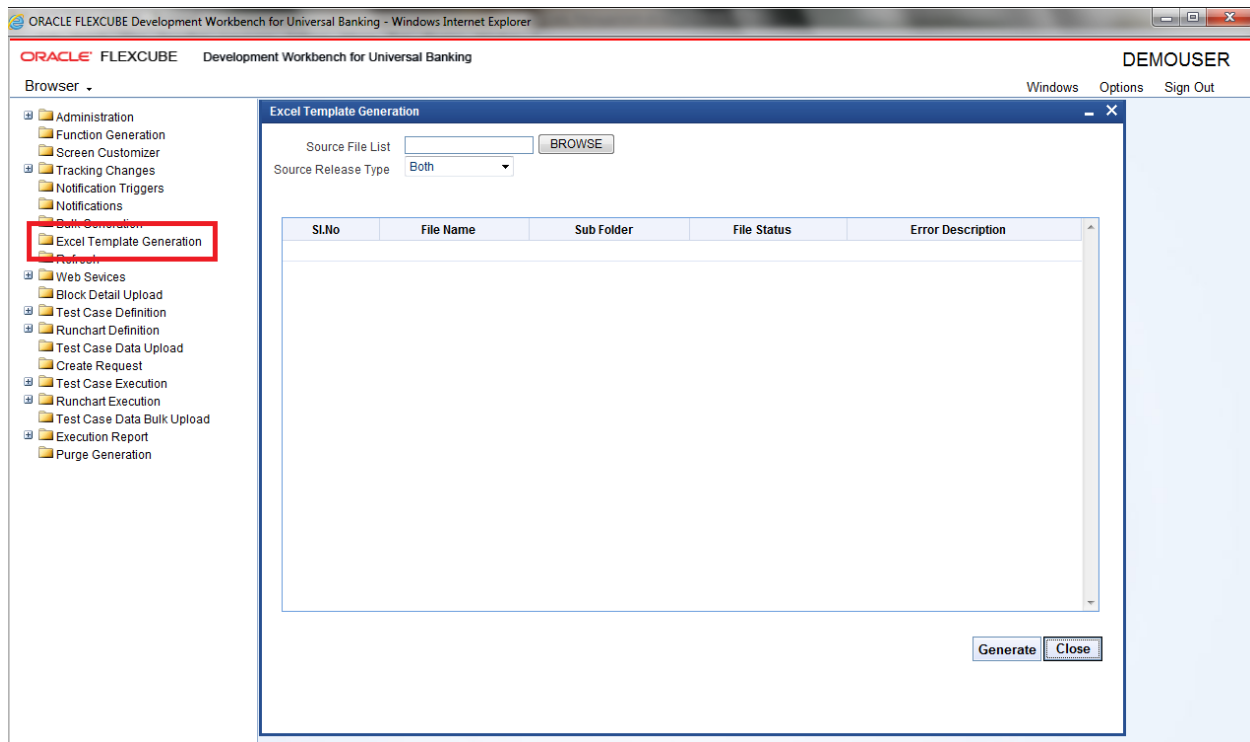


Fig 7.1: The Excel template Generation Screen

Similar to block detail upload, a text file which contains the list of RADXMLS along with path, has to be uploaded here to get the excel templates.

Note: Excel template needs to be re-generated every time there is a change in the source after upload of the new block details.

8 Test Case Definition

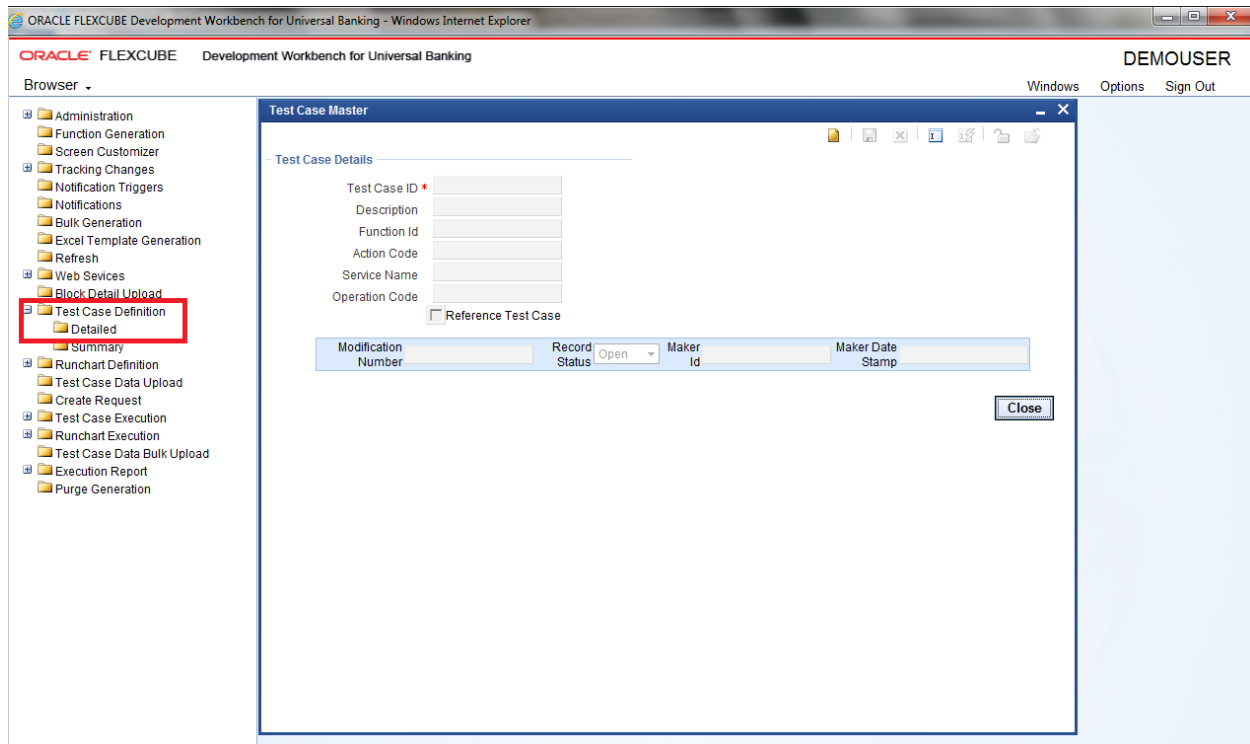


Fig 8.1: The Test Case Master Screen

The first command button should be used to create a new test case.

Fourth command button can be used to query data (Similar to F7 in FLEXCUBE)

Fifth command button can be used to get the queried data (Similar to F8 in FLEXCUBE)

Action Code: Can be used to New/Modify/Reverse/Liquidate/Auth/Close

Tables: TCTM_TC_MASTER, TCTB_TC_MASTER

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.

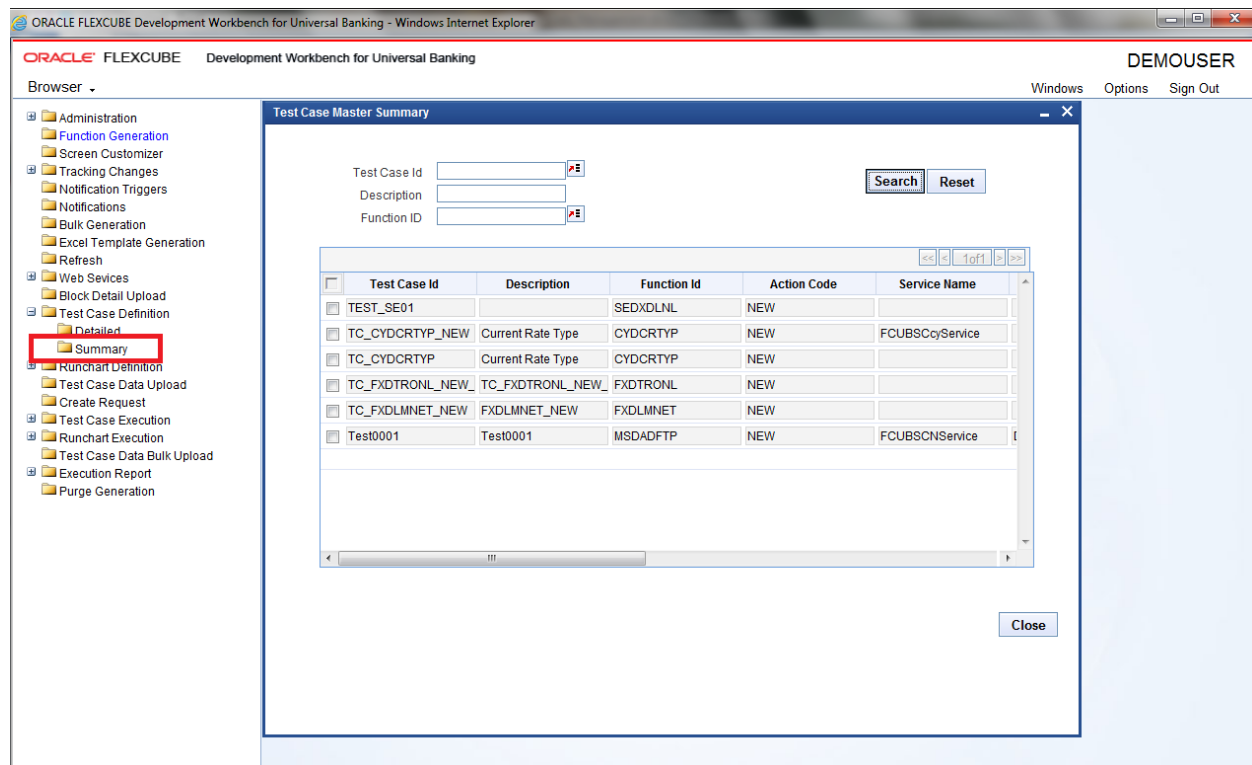


Fig 8.2: The Summary Screen

Test Case Master

- Test Case Details

Test Case ID * TC_CYDCRTYP_NEW

Description Current Rate Type

Function Id CYDCRTYP

Action Code NEW

Service Name FCUBSCcyService

Operation Code

☐ Reference Test Case

Modification Number 2

Record Status Open

Maker Id DEMO

Maker Date Stamp 2013-02-28 20:26:39

Close

Fig 8.3: The Detailed Screen

9 Test Case Upload

ORACLE FLEXCUBE Development Workbench for Universal Banking - Windows Internet Explorer

ORACLE FLEXCUBE Development Workbench for Universal Banking

DEMOUSER

Windows Options Sign Out

Browser

Administration

Function Generation

Screen Customizer

Tracking Changes

Notification Triggers

Notifications

Bulk Generation

Excel Template Generation

Refresh

Web Services

Block Detail Upload

Test Case Definition

Test Case Data Upload

Create request

Test Case Execution

Runchart Execution

Test Case Data Bulk Upload

Execution Report

Purge Generation

Test Case Upload

Test case excel upload

Test Case ID * TC_CYDCRTYP_NEW

Description Current Rate Type

Excel Sheet *

Upload File

Show New Excel

Show Old Excel

Function Id CYDCRTYP

Branch Code 000

Action Code NEW

Operation Code

Service Name FCUBSCcyService

Origin Release FCUBS_12.2_ACESAB

Reference Test Case

Close

Fig 9.1: The Test Case Upload Screen

This is the screen to upload the respective excel template along with data. If multiple columns are there in Excel sheet, TCM will create multiple Test Cases.

For example:

TEST CASE: COUNTRY_CODES

If user uploads data with two columns – for INDIA & USA

System will create 2 test cases as

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

Tables: TCTB_BLOCK_DATA, TCTM_BLOCK_DATA

| | 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 | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |

Fig 9.2: Excel sheet – to upload into TCM

Take note of following points while uploading excel sheet.

- i) The Parent Record Id in the Master Data block's sheet should be null
- ii) The Parent Record Id in Non-Master Blocks should not be null
- iii) 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
- iv) Excel sheet should be 2003 version (File extension name should be .xls)

Note: For proper display of excel sheet in browser, the user needs to ensure the following In Windows explorer Folder Options→File Types

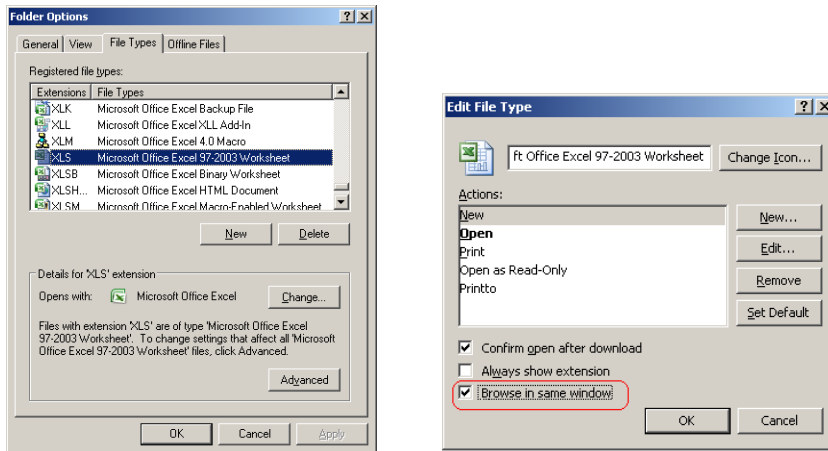


Fig 9.3: Browse in Same Window Checkbox

The Browse in Same Window Checkbox needs to be checked.

10 Create Request

The FLEXCUBE 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.

11 Test Case Execution

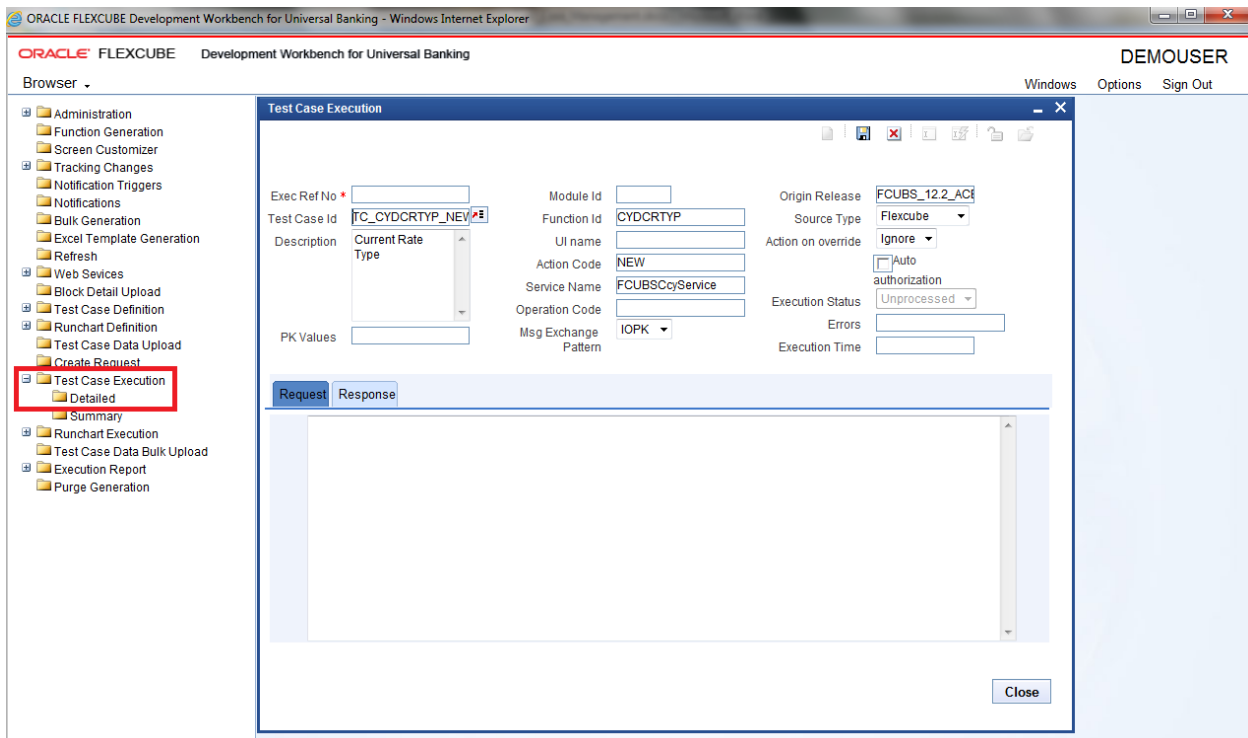


Fig 11.1: Test Case Execution screen

Once the data is uploaded successfully, test case can be executed from this screen.

Test Case ID: Each execution generates a unique reference number, which may be used later for viewing the status of execution

Source Type: Source type can be FLEXCUBE/Web Services, depending on whether the execution is to be done from FLEXCUBE or and external System.

Action on override: In case overrides occur for a function id, the user may either ignore those overrides, or stop the execution and give Error status.

Auto Authorization: On selecting this check box, executed records will as authorized records.

Execution Status: This will show whether record is executed successfully or not.

Tables: TCTB_TC_EXEC_MASTER,, TCTB_TC_CURR_DATA

12 Run Chart Master

ORACLE FLEXCUBE Development Workbench for Universal Banking - Windows Internet Explorer

ORACLE FLEXCUBE Development Workbench for Universal Banking DEMOUSER

Windows Options Sign Out

Browser

- Administration
 - Function Generation
 - Screen Customizer
- Tracking Changes
 - Notification Triggers
 - Notifications
 - Bulk Generation
 - Excel Template Generation
 - Refresh
- Web Services
 - Block Detail Upload
 - Test Case Definition
 - Detailed
 - Summary
 - Test Case Data Upload
 - Create Request
 - Test Case Execution
 - Runchart Execution
 - Test Case Data Bulk Upload
 - Execution Report
 - Purge Generation

Runchart Master

Runchart Details

Runchart Code * RC_NEW

Description RC_NEW

| Sequence No | TC Code |
|-------------|-----------------|
| | TC_CYDCRTYP_NEW |
| | TC_CYDCRTYP |

Modification Number Maker Id Maker Date Stamp


Close

Fig 12.1: Run Chart Master Screen

In this screen user can add multiple test cases and make a single Run Chart to execute at one shot. User has to enter sequence number, it's a mandatory.

Tables: TCTM_RC_MASTER, TCTM_RC_TCS

Runchart Master Summary

Runchart Id 

Description

Search **Reset**

| <input type="checkbox"/> | Runchart Id | Description | |
|--------------------------|-------------|-------------|----------|
| <input type="checkbox"/> | RC_NEW | RC_NEW | FCUBS_1: |
| <input type="checkbox"/> | RC_NEW1 | RC_NEW1 | FCUBS_1: |

Close

Fig 12.2: Run Chart Summary with list of Run Charts along with Description

13 Run Chart Execution

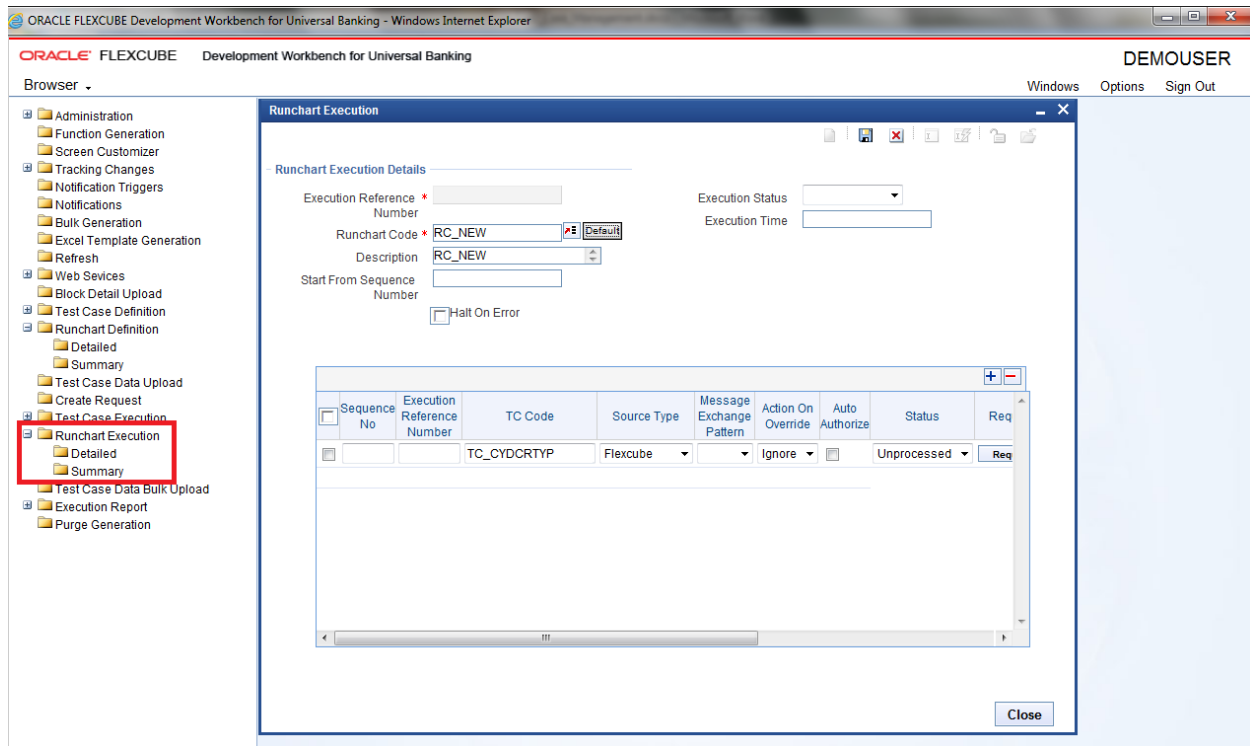


Fig 13.1: Run Chart Execution Screen

User can execute the Run Chart in this screen. If user doesn't want execute with auto auth, user can uncheck the check box.

Once Run Chart is executed user can see the status in the screen itself.

Request: User can check request which has been received by TCM

Response: User can check the TCM response for the request on clicking this command button. In this screen user can find the status of the execution of individual test case and the reason for failure.

Note:

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

Tables: TCTB_RC_EXEC_MASTER, TCTB_TC_EXEC_MASTER, TCTB_TC_CURR_DATA

Runchart Execution Summary

Exec Ref No

Rc Code

| | Exec Ref No | Rc Code | |
|--------------------------|--------------------|---------|---|
| <input type="checkbox"/> | RCEX13063000000000 | RC_NEW1 | U |

Fig 13.2: Run Chart Execution Summary

14 Derivation

When the input for a test case is dependent on the output of another test case, the application facilitates usage of derivation to link the input to the output of another test case. For example to make a Run Chart of Contract Execution & Liquidation, in liquidation test case we have to enter Contract number instead we can put the path as below mentioned.

D:TESTCASENAME:BLOCKNAME:FIELDNAME

Example:

D:TC_FXDTRONL_NEW_CONTRACT_FSC2:BLK_CONTRACT_MASTER:CONTREFNNO

15 Migration of Data using TCM Tool

Migration of data between releases is subject to the following conditions:

1. 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.
2. If a non-extensible screen in Release 1 remains non-extensible in Release2, then migration of data through TCM Tool is possible.
3. If an extensible screen in Release 1 remains extensible in Release2, then migration of data through TCM Tool is possible.

The following are the steps to achieve the migration of data from Release1 to Release2:

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 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 make modification only for specific records/test cases.
6. Run the test case / run chart as appropriate. On execution, the modified data gets updated in the database.

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



Test Case Management
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