Test Case Management Oracle FLEXCUBE Universal Banking Release 12.4.0.0.0



## Contents

1		Preface	3
	1.1	Audience	3
-	1.2	Related Documents	3
2		Introduction	
3		Overview of Test Case Management	
4		Login	
5		Home Page	
Ĺ	5.1	Browser	3
Ĺ	5.2	Windows	4
Ĺ	5.3		
Ĺ	5.4		
Ę	5.5	Change Password	5
Ĺ	5.6	Sign Out	6
6		Block Detail Upload	
7		Excel Template Generation	7
8		Test Case Definition	8
9		Test Case Upload	11
10		Create Request	13
11		Test Case Execution	13
12		Run Chart Master	14
13		Run Chart Execution	16
14		Derivation	
15		Migration of Data using TCM Tool	18

### **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,	vou need conc	eptual and	working l	knowledge o	of the below:
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Proficiency	Resources
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**

<u>02-Development\_WorkBench\_Administration.docx</u> <u>03-Development\_WorkBench\_Getting\_Started.docx</u>

## 2 Introduction

This document provides information on:

- <u>Chapter 2 , "Introduction"</u>
- Chapter 3, "Overview of Test Case Management"
- <u>Chapter 4 , "Login"</u>
- <u>Chapter 5 , "Home Page"</u>
- <u>Chapter 6, "Block Detail Upload "</u>
- <u>Chapter 7 , "Excel Template Generation "</u>
- Chapter 8, "Test Case Definition"
- <u>Chapter 9 , "Test Case Upload"</u>
- <u>Chapter 10</u>, "Create Request"
- <u>Chapter 11 , "Test Case Execution"</u>
- Chapter 12 , "Run Chart Master"
- Chapter 13, "Run Chart Execution"
- <u>Chapter 14</u>, "Derivation"
- <u>Chapter 15</u>, "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

ORACLE FLEXCUBE Development Workbench for Universal Banking - Windows Internet Explorer
ORACLE
ORACLE FLEXCUBE
Development Workbench for Universal Banking
LOGIN
Password
Sign In
Sign m
Copyright © 2012, Oracle and/or its affiliates. All rights reserved.

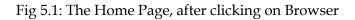
Fig 4.1: Login Screen

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

ORACLE' FLEXCUBE Development Workbench for Universal Banking					
Browser -		Windows	Options	Sign Out	
Administration     Function Generation     Screen Customizer     Inction Generation     Screen Customizer     Inctincation Triggers     Notification Triggers     Notifications     Subdit Generation     Excel Template Generation     Refresh     Inct Server     Iduk Generation     Test Case Definition     Test Case Definition     Test Case Data Upload     Test Case Data Bulk Upload     Test Case Data Bulk Upload     Execution Report     Test Case Data Bulk Upload     Execution Report     Test Case Data Bulk Upload					



#### 5.1 Browser

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

#### 5.2 Windows

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			TestCaseDefinition_Detailed						
			RunchartDefinition_Detailed						
	Test Case Master		_ × _						
	- Test Case Details	Prove band Manadara							
	Test Case ID *	Runchart Master							
	Description Function Id								
	Action Code	- Runchart Details	-						
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	Modification Number	Sequence No	TC Code						
			<b>v</b>						
		Modification Number Maker I	d Nakar Data Stama						
		Makeri	d Maker Date Stamp						
			Close						

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.

rowser -		
	Windows	Options Sign Out
		User Preferences
		Change Password
		Launch FLEXCUBE UBS
		Accessibility neip
		About

#### Fig 5.3.1: Launch FCUBS

### 5.4 User Preferences

ORACLE FLEXCUBE Development Work	bench for Universal Banking - Windows Internet I	Explorer		
ORACLE FLEXCUBE Development	opment Workbench for Universal Banking			DEMOUSER Windows Options Sign Out
	Environment Code Language Save Mode Work Directory Excel format Release Details Release Type: <u>Environment Details</u> Environment Description:	KERNEL FCDEV1202@FCUBSDEV	_ X	User Preferences Change Password Launch FLEXCUBE UBS Accessibility Help About
			OK Cancel	

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

Change Password 🗕 🗙
Old Password
New Password
Confirm Password
OK 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

ORACLE FLEXCUBE Development Workben	ch for Universal Banking - Windows Internet Explore	er				- • ×
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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.

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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

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ORACLE FLEXCUBE Develop	ment Workbench for Universal Banking				DE	MOUSER
Browser -				Window	s Options	Sign Out
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				Generate	DSE	

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

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ORACLE' FLEXCUBE Developm	nent Workbench for Universal Banking			DEN	IOUSER	
Browser .			Windows	Options	Sign Out	
Administration     Function Generation     Screen Customizer     Notification Triggers     Notifications     Eucl Generation     Excel Template Generation     Refresh     Web Sevices     Block Detail Upload     Test Case Data Upload     Create Request     Refrest Evecution     Test Case Execution     Recent Test Case Execution     Recent Test Case Data Upload     Excel Test Case Data Upload     Execution Report     Purge Generation	Test Case Master  Test Case Details  Test Case ID *  Description  Function Id  Action Code Service Name Operation Code Reference Test Case Modification Number State	lus Stamp	_ X			

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.

Administration         Gundlin Generation         Screen Customizer         Tracking Changes         Notification Triggers         Bulk Generation         Excel Template Generatio	owser .							Windows	Options	Sign Out
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Tracking Changes       Test Case Id       File         Notification Triggers       Description       Exect         Notifications       Function ID       File         Buck Generation       Function ID       File         Web Services       Fest Case Id       Description         Block Detailed       Test Case Id       Description         Summary       Test Case Id       Description         Summary       Test Case Id       Description         Function ID       Test Case Id       Description         Publick       Test Case Id       Description         Function ID       Test Case Id       Description         Purpe Case Definition       Test Case Id       Description         Summary       Tc_CYDCRTYP_NEW       Current Rate Type         CYDCRTYP       NEW       FCUBSCoyService         Create Request       Tc_FXDTRONL_NEW, TC_FXDTRONL_NEW, FXDLMNET       NEW         Test Case Data Bulk Upload       Test0001       MSDADFTP       NEW         Fest Case Data Bulk Upload       Test0001       MSDADFTP       NEW       FCUBSCNService         Fest Case Data Bulk Upload       Test0001       MSDADFTP       NEW       FCUBSCNService       Fest Case Data Bulk Upload <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
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Fig 8.2: The Summary Screen

Test Case Master	_ ×
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- 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 Open Vaker Status Open Id	Maker Date Stamp 2013-02-28 20:26:39
	Close

Fig 8.3: The Detailed Screen

# 9 Test Case Upload

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<ul> <li>Administration</li> <li>Function Generation</li> <li>Screen Customizer</li> <li>Tracking Changes</li> <li>Notification Triggers</li> <li>Notifications</li> <li>Buik Generation</li> <li>Excel Template Generation</li> <li>Refresh</li> <li>Web Sevices</li> <li>Block Detail Upload</li> <li>Test Case Data Upload</li> <li>Test Case Execution</li> <li>Runchart Execution</li> <li>Test Case Data Bulk Upload</li> <li>Excution Report</li> <li>Purge Generation</li> </ul>	Test Case Upload  Test Case excel upload  Test Case ID * [C_CYDCRTYP_NEW /*] Description Excel Sheet *  Upload File Operation Code Show New Excel Show Old Excel Origin Release FCUBS_122_ACESABI Reference Test Case	_ ×		



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  $% \label{eq:stable}$ 

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

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	F14 • (* <i>f</i> *						
4	A	В	E	F	G	Н	1
	TMS_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
1		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
3 9 2-UC	TBS FUNC UDF UPLOAD DETAIL	Field Name	Field Value 1	Field Value 2	Field Value 3	Field Value 4	Field Value 5
0		Record No	1	2	3	4	5
1		Record Id	1	2	3	4	5
2		Action Code	NEW	NEW	NEW	NEW	NEW
3		Parent Record Id	1	2	3	4	5
4		FUNCTION ID			1		
5		REC KEY			-8		
6		FIELD NAME					
7		FIELD VAL					
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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  $\rightarrow$  File Types

Folder Uptions	<u>Y X</u>		
General View File Types Offline Files			
Registered file types:			
Extensions File Types			
XLK Microsoft Office Excel Backup File	·	Edit File Type	? X
Wicrosoft Office Excel XLL Add-In			
👗 XLM Microsoft Office Excel 4.0 Macro			
XLS Microsoft Office Excel 97-2003 Worksheet		ft Office Excel 97-2003 Worksheet	Change <u>I</u> con
Kurstein Karley Karley Microsoft Office Excel Binary Worksheet			
XLSH Microsoft Office Excel HTML Document		Actions:	
SM Microsoft Office Excel Macro-Enabled Worksheet	-	New	New
New Delete		Open	<u>Ideaa</u>
		Print	Edit
		Open as Read-Only	
Details for XLS' extension		Printto	Remove
Opens with: 💽 Microsoft Office Excel Change		Princo	
			Set Default
Files with extension XLS' are of type 'Microsoft Office Excel 97-2003 Worksheet'. To change settings that affect all 'Microso			
Office Excel 97-2003 Worksheet' files, click Advanced.	`	Confirm open after download	
	1	Always show extension	
Advanced		Browse in same window	
		OK	Cancel
OK Cancel Ap	ply		

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**

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Administration     Administration     Function Generation     Screen Customizer     Notification Triggers     Notification Triggers     Notifications     Eucl Cemeration     Excel Template Generation     Refresh     Web Sevices     Glock Detail Upload     Test Case Definition     Test Case Detail Upload     Greate Request     Test Case Execution     Detailed     Summary     Runchart Definition     Test Case Data Bulk Upload     Execution     Test Case Data Bulk Upload     Test Case Data Bulk Upload     Summary     Runchart Execution     Test Case Data Bulk Upload     Execution Report     Purge Generation	Test Case Execution         Exec Ref No *         Test Case Id         C_CYDCRTYP_NEV/2         Function Id         Current Rate         Type         Action Code         New         Operation Code         PK Values         Mag Exchange         Pattern         Execution Time	- X		

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

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 Maste	er Summary				_ ×
	Runchart Id Description	<b>&gt;</b>		Search	eset
	Dup	chart Id	Dee	<< <	1of1 > >>
	RC_NEW		RC_NEW	cripuon	FCUBS_1:
	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**

	h for Universal Banking - Windows Internet Explorer	- • ×
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Browser -	Windows	Options Sign Out
Particle      Function Ceneration     Function Ceneration     Screen Customizer     Tracking Changes     Notification Triggers     Notification Triggers     Bulk Generation     Excel Template Generation     Refresh     Web Sevices     Bick Detail Upload     Test Case Definition     Particle     Runchart Definition	Runchart Execution      X         - Runchart Execution Details      X         Execution Reference *      X         Number      X         Runchart Code *       Execution Status         Description       RC_NEW         Start From Sequence      X         Number      X         Hait On Error      X	
Summary Summary Test Case Data Upload Create Request Test Case Execution Detailed Summary Test Case Data Bulk Upload Execution Report Purge Generation	Sequence Execution TC Code Source Type Exchange Action On Auto Override Authorize Status Req TC_CYDCRTYP Flexcube  Ignore Ignore Unprocessed  Req	
	Close	

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 Summar	ny		_ ×
Exec Ref No Rc Code	<b>&gt;∃</b>	[	Search Reset
	Exec Ref No	Rc Code	<< < 10f1 > >>
RCEX130	63000000000	RC_NEW1	U
<			Close

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 Release 2 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.



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