Test Case Management Oracle FLEXCUBE Universal Banking Release 12.87.06.0.0 [May] [2020]



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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,	vou need concept	ual and working	knowledge	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 , "Create Request"</u>
- <u>Chapter 11</u>, "Test Case Execution"
- 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.

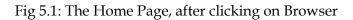
Fig 4.1: Login Screen

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		
Image: Seven Customizer         Image: Seven Customizer					



#### 5.1 Browser

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

### 5.2 Windows

🥥 ORACLE FLEXCUBE Development Workbench for Universal Banking - Windows Internet Explorer								
ORACLE' FLEXCUBE Development Workbench for Universal Banking DEMOUSER								
Brov	Browser - Windows Options Sign Out							
			TestCaseDefinition_Detailed					
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	Test Case Master		_ × _					
	- Test Case Details	Prove band Manadara						
	Test Case ID *	Runchart Master						
	Description Function Id							
	Action Code	- Runchart Details	-					
	Service Name	Runchart Code *						
	Operation Code	Description 🗘						
	Reference Test Cas		+=					
	Modification Number	Sequence No	TC Code					
			<b>v</b>					
		Modification Number Maker I	d Nakar Data Stamp					
		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.

RACLE FLEXCUBE	Development Workbench for Universal Banking	DEMOUSE
Frowser +	Windows	Options Sign Out
		User Preferences
		Change Password
		Launch FLEXCUBE U
		Accessibility neip
		About

#### Fig 5.3.1: Launch FCUBS

### 5.4 User Preferences

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ORACLE FLEXCUBE De Browser -	elopment Workbench for Universal Banking			DEMOUSER Windows Options Sign Out
	Preferences         Release Code       FCUBS_12.0.2         Environment Code       FCUBSDEV1200         Language       ENG         Save Mode       Zp         Work Directory       XLS         Excel format       XML Indentat         Release Details       TUBS_12.0.2         Release Code:       FCUBS_12.0.2         Release Type:       KERNEL         Environment Details       Environment         Description:       Schema:       FCDEV1202@FC         Language:       English	lon	_ ×	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 _ X
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			
ORACLE' FLEXCUBE Develop	ment Workbench for Universal Banking				DEMOUSER
Browser -				Window	vs Options Sign Out
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<ul> <li>Excel Template Generation</li> <li>Refresh</li> <li>Block Detail Upload</li> <li>Create Request</li> <li>Test Case Data Upload</li> <li>Create Request</li> <li>Runchart Execution</li> <li>Rest Case Data Buik Upload</li> <li>Eest Case Data Buik Upload</li> <li>Perge Generation</li> </ul>	SLIVO HIE Name	SUDFOIGEF	Hile Status	Error Description	ose

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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<u>F</u> ile <u>E</u> dit F <u>o</u> rmat <u>V</u> iew <u>H</u> elp	
D:\TEMP\EDDPFMNT\CSCFNUDF_RAD.xm] D:\TEMP\EDDPFMNT\MICTRMIS_RAD.xm] D:\TEMP\EDDPFMNT\EDDPFMNT_RAD.xm]	<
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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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	ment Workbench for Universal Banking				DEN	NOUSER
Browser -				Window	s Options	Sign Out
Administration     Administration     Screen Customizer     Tracking Changes     Notification Triggers     Notifications	Excel Template Generation Source File List Source Release Type Both	BROWSE			_ ×	
<ul> <li>Built Generation</li> <li>Excel Template Generation</li> <li>Bock Detail Upload</li> <li>Test Case Definition</li> <li>Runchart Definition</li> <li>Test Case Data Upload</li> <li>Create Request</li> <li>Fest Case Execution</li> <li>Runchart Execution</li> <li>Test Case Data Ukl Upload</li> <li>Execution Report</li> <li>Purge Generation</li> </ul>	SI.No File Name	Sub Folder	File Status	Error Description		

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
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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.

Function Generation     Screen Customizer	Browser 🗸							Windows	Options	Sign Out
Refresh         Web Sexices         Itock Detail Upload         Test Case Id       Description         Function Id       Action Code         Summary         Summary         Runchart Definition         Test Case Data Upload         Create Request         Create Request         Test Case Data Dulk Upload         Execution Report         Purge Generation	Screen Customizer Tacking Changes Notification Triggers Notifications Bulk Generation	Test C Desc	ase Id				Search Reset	_ ×		
Block Detail Upload       Test Case in Upscription       Function in Action Code       Service name         Test Case Definition       TEST_SE01       SEDXDLNL       NEW       FCUBSCcyService         Summary       TC_CYDCRTYP_NEW       Current Rate Type       CYDCRTYP       NEW       FCUBSCcyService         Test Case Data Upload       TC_CYDCRTYP_NEW       Current Rate Type       CYDCRTYP       NEW       FCUBSCcyService         Test Case Data Upload       TC_FXDTRONL_NEW_       TC_FXDTRONL_NEW_       FXDTRONL       NEW       FCUBSCcyService         Test Case Data Upload       Tc_fXDTRONL_NEW_       TC_FXDTRONL_NEW_       FXDIMNET       NEW       FCUBSCcyService       I         Test Case Data Bulk Upload       Tc_fXDTRONL_NEW_       FXDLMNET_NEW       FXDLMNET       NEW       FCUBSCNService       I         Test Case Data Bulk Upload       Test0001       Test0001       MSDADFTP       NEW       FCUBSCNService       I         Test Case Data Bulk Upload       Test0001       Test0001       MSDADFTP       NEW       FCUBSCNService       I         Purge Generation       IT       IT       IT       IT       IT       IT       IT							<< < 1of1	> >>		
Test Case Definition     TEST_SE01     SEDXDLNL     NEW       Defauld     TC_CYDCRTYP_NEW     Current Rate Type     CYDCRTYP     NEW       Runchart Definition     TC_CYDCRTYP_NEW     Current Rate Type     CYDCRTYP     NEW       Test Case Data Upload     TC_FXDTRONL_NEW_TC_XTRONL_NEW_FXDTRONL     NEW       Test Case Execution     TC_FXDTRONL_NEW_FXDLMNET     NEW       Test Case Data Bulk Upload     Test0001     MSDADFTP     NEW       Purge Generation     ************************************		Tes	t Case Id	Description	Function Id	Action Code	Service Name	*		
Image: Construct of the second of the sec		TEST_S	E01		SEDXDLNL	NEW				
Test Case Data Dupload     Test Case Data Dupload     Test Case Data Dupload     Test Case Execution     Test Case Data Dupload     Test Case Data Dupl	Detailed	TC_CYI	OCRTYP_NEW	Current Rate Type	CYDCRTYP	NEW	FCUBSCcyService			
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	Execution Report									
Close		•								
								Close		

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	EN	
	Reference Test Case	
Modification Number	Record Open Vaker Id DEMO	Maker Date Stamp 2013-02-28 20:26:39
Number		Stamp
		Close
		0.036

Fig 8.3: The Detailed Screen

# 9 Test Case Upload

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Browser -		Windows	Options	Sign Out
<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 Service Name FCUBSCc/Service 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

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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Paste			General	Conditional	Format Cell	Breansert ▼ Σ ▼ Breansert ▼ Σ ▼	Sort & Find &
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lipboard 🕞	Font 😼	Alignment 🕞	Number	Fa .	Styles	Cells	Editing
F14	4 <b>▼</b> ( <i>f</i> <sub>x</sub>						
4	A	В	E	F	G	Н	
	S_RATE_TYPE	Field Name	Field Value 1	Field Value 2	Field Value 3	Field Value 4	Field Value
2		Record No	1	2	3	4	5
3		Record Id	1	2	3	4	5
L.		Action Code	NEW	NEW	NEW	NEW	NEW
5		Parent Record Id	1	2	3	4	5
i		CCY_RATE_TYPE	STANDARD	CASH	BILLS	TC	DD
			STANDARD				
7		CCY_RATE_TYPE_DESC	RATE	Cash Transaction	BILLS RATE	TC RATE	DD RATE
3							
	S_FUNC_UDF_UPLOAD_DETAIL	Field Name	Field Value 1	Field Value 2	Field Value 3	Field Value 4	Field Value
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					
5		REC_KEY					
6		FIELD_NAME					
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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

	<u> </u>		
General View File Types Offline Files			
Registered file types:			
Extensions   File Types			
XLK Microsoft Office Excel Backup File		Edit File Type	?)
Street All Microsoft Office Excel XLL Add-In			
& XLM Microsoft Office Excel 4.0 Macro		ft Office Excel 97-2003 Worksheet	
XLS Microsoft Office Excel 97-2003 Worksheet		TIT Office Excel 97-2003 Worksheet	Change <u>I</u> con
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Standard Content And Content A		Actions:	
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New Del	lete	Open	
		Print	<u>E</u> dit
Details for XLS' extension		Open as Read-Only	
_		Printto	Remove
Opens with: 💌 Microsoft Office Excel Change	э	1 mas	
			Set Default
Files with extension 'XLS' are of type 'Microsoft Office Excel 97-2003 Worksheet'. To change settings that affect all 'Micro	osoft	,	
Office Excel 97-2003 Worksheet' files, click Advanced.		Confirm open after download	
		Always show extension	
Advanc	>ed		
		Browse in same window	
		ок	Cancel
OK Cancel	Apply		

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**

ORACLE FLEXCUBE Development Workbence	h for Universal Banking - Windows Internet Explorer			- <b>O</b> X
ORACLE' FLEXCUBE Developm	ent Workbench for Universal Banking		DE	MOUSER
Browser +		Windows	Options	Sign Out
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	24		Search F	Reset
	Dup	chart Id	Do	scription	< 1of1 > >>
	RC_NEW	Chartiu	RC_NEW	scription	FCUBS_1:
	RC_NEW1		RC_NEW1		FCUBS_1:
< [		111			Close

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

### **13 Run Chart Execution**

ORACLE FLEXCUBE Development Workbend	h for Universal Banking - Windows Internet Explorer		- 0 ×
ORACLE' FLEXCUBE Developm	nent Workbench for Universal Banking	DEM	OUSER
Browser +	Windows	Options	Sign Out
Administration     Function Generation     Screen Customizer     Tracking Changes     Notification Triggers     Notifications     Bulk Generation     Excel Template Generation     Refresh     Web Sevices     Block Detail Upload     Test Case Definition     Runchart Definition     Detailed	Runchart Execution      X         - Runchart Execution Details      X         Execution Reference      X         Number      X         Runchart Code *       RC_NEW         Description       RC_NEW         Start From Sequence      X         Number      X         Halt On Error      X		
<ul> <li>Summary</li> <li>Test Case Data Upload</li> <li>Create Request</li> <li>Test Case Execution</li> <li>Detailed</li> <li>Summary</li> <li>Test Case Data Bulk Upload</li> <li>Execution Report</li> <li>Purge Generation</li> </ul>	Sequence Execution Reference TC Code Source Type Exchange Override Authorize Status Req    Number TC_CYDCRTYP   Flexcube • Ignore • Unprocessed • Reg		

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 Su	immary				_ ×
Exec Re Ro C		]		Search Reset	
				<< < 1of	
	Exec Ref No EX1306300000000		RC_NEW1	Rc Code	U
					~
•	III				E.
					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.



Test Case Management [May] [2020] Version 12.87.06.0.0

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