Development of Report Forms Oracle Banking Treasury Management Release 14.5.2.0.0 [August] [2021]



Contents

1.	Preface	3
1.1.	Audience	3
	2. Related Documents	
	Introduction	
3.	Overview of FLEXCUBE Reports	4
4.	Designing Report Form	4
5.	RTF and XDO Files	.14
6.	Coding in Hook Package	14

1. Preface

This document guides the developer in designing a Report form using Oracle FLEXCUBE Development Workbench for Universal Banking

1.1. Audience

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

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

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
FLEXCUBE Screen Development	04-Development_WorkBench _Screen_Development-I.docx
Working knowledge of Web based applications	Self Acquired
Working knowledge of Oracle Database	Oracle Documentations
Working knowledge of PLSQL & SQL Language	Self Acquired
Working knowledge of XML files	Self Acquired

1.2. Related Documents

04-Development_WorkBench _Screen_Development-I.docx

<u>05-Development_WorkBench_Screen_Development-II.docx</u>

2. Introduction

This document provides information on:

- <u>Chapter 1 , "Introduction"</u>
- <u>Chapter 1 , "Overview of FLEXCUBE Reports"</u>
- Chapter 2, "Designing Report Form"

3. Overview of FLEXCUBE Reports

Reports in FLEXCUBE UBS are used to fetch the data from FLEXCUBE database Schema based on the report Query criteria and render on screen or print.

FLEXCUBE UBS uses two software as reporting platforms.

- Oracle Business Intelligence Publisher (BIP)
- Oracle Business Intelligence Enterprise Edition (OBIEE)

This document describes the process of designing a Report Form for a BIP Report using Development Workbench. The process of designing RTF and XDO files are not explained in this manual.

Note:

This document assumes a given report RTF file and data template XML is already available.

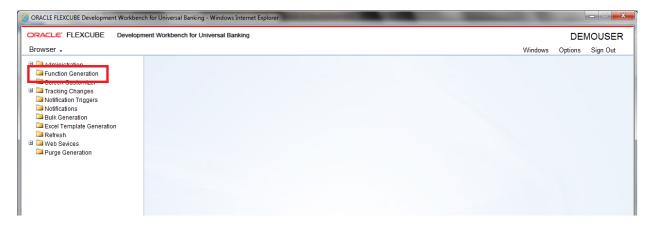
4. Designing Report Form

1. Login to FLEXCUBE Development workbench

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

Fig 4.1 Login Page

2. From browser, select 'Function Generation'





3. Select 'New' from 'Action', and set the function type as 'Report' from the drop down list in 'Function Category'. Type in the name of the screen; make sure that the third letter of the name is 'R'.

Function Generation					-	×		
					🗷 🗏 7 🧐 🕇	۵		
Action New + Function Id STRCU000 Save XML Path D/RADTOOL	Function Typ Parent Function Parent Xr	n	Function Category Report Header Template None Footer Template None					
Search	Preferences				9	1		
Preferences DataSource ListOfValues DataBlocks Screens FieldSets Actions CaliForms LaunchForms Summary	Head Office Fun Logging Requir Auto Authorizatic Tank Modificatio Field Log Requi Mutti Branch Acc Excel Export Rec	ed nn ns red	Module Module Description Branch Program Id Process Code SVN Repository URL Transaction Block Name Transaction Field Name	Static Maintenance]]]			
				Co	ntrol String + -			
	Function Id		Module *	Module Description	^			
	STRCU000	βT	×.	Static Maintenance				
					Ŧ			

Fig 4.3: Report Screen design

4. Add data sources by right clicking on 'DataSource'. In a report screen, the only table that should be added is '**CSTB_UI_COLUMNS'**. Add columns from the table as required. The number of columns to be added depends on the number of report parameters required in the report screen. Add as many fields as required in the report screen.

Fon	iction Generation										×
									X	i	🗐 🤟
	A	ction New	*		Function Type Parent		Function Cate	gory Report	•		
	Function	on Id STRCU	1000		Parent Function		Header Terry	lale None	-		
		Palh D:\RAD			Parent Xml		Fooler Temp		*		
Sea	rch			AddTable			×				+ 1
	Preferences			Table Name	P2						
	DalaSource			Alias Name					Ostadau Tora		
	DalaBlocks				Data Source	×	arent		Relation Type		
	Screens										
	FieldSets				Table Name CSTB_UI_COLUMNS						
	🚞 Actions				Table Name CSTB_UI_COLUMNS						
	CaliForms										
	LaunchForms										
	Summary				Search Re	set					
					<< < 1of1678 > 2	>>					
					Table Name						
					INVOBJ7MAY_AFTER						
					REFERENCED_NAME_LIST						
					DITB_JOB_TYPES						
					INS_401_401						
					SEQ_401_401	-					
					FBTB_ADVICE_DETAILS_C						
					SMTB_FUNCTION_DESCRIPTION_BKP						
					SMTB_MENU_LCDEXPDT						
					SMTB_FUNC_DESC_LCDEXPDT						
					SMTB_ROLE_DETAIL_LCDEXPDT						
					SMTB_FCC_FCJ_MAPPING_LCDEXPDT						
					GLTW_PLCCYPAST						-
					AEPKSS_BADEODFE_KERNEL						
			L L		AEPKSS BADEODFE MAIN						

Fig 4.4: Adding Data Sources

5. Right click on data blocks and add block fields.

There are some generic report parameters which needed to be added in any report screen. They are:

PM_MINOR PM_BRANCH_CODE PM_BRANCH_DATE PM_BRANCH_DESC PM_CURRENT_USER PM_LCY PM_LANGUAGE PM_MODULE *Note: While adding columns to the data source CSTB_UI_COLUMNS, take these generic parameters also into consideration*

Function Generation										×
								X	🔳 7 🧃) 🤣
Action New Function Id STRCL/000 Save XML Path D/IRADTOOL			Function Type Farent Parent Function Parent Xml	▼]		Function Catego Header Templa Fooler Templa	e None	•		
Search	Sele	ect Fields & Add Ul Field	S		>	٢			🔶 🗕 📧 🕻	G .
Preferences	Da	ataSource fields UI Fie	lds			omer-Delails				
DataSource CSTB_ULCOLUMNS		Datasource C				•				
CHAR_FIELD1		Column Name	Field Name	Label Code	^	*				
CHAR_FIELD3		CHAR_FIELD1	PM_MINOR	LBL_PM_MINOR		mai 💌				
CHAR_FIELD4		CHAR_FIELD2	PM_BRANCH_CODE	LBL_PM_BRANCH_CODE						
CHAR_FIELD5		CHAR_FIELD3	PM_BRANCH_DATE	LBL_PM_BRANCH_DATE		led				
CHAR_FIELD7		CHAR_FIELD4	PM_BRANCH_DESC	LBL_PM_BRANCH_DESC						
CHAR_FIELD8		CHAR_FIELD5	PM_CURRENT_USER	LBL_PM_CURRENT_USER						
🖃 🤖 DalaBlocks		CHAR_FIELD6	PM_LCY	LBL_PM_LCY						
BLK_CUSTOMER_DETAILS		CHAR_FIELD7	PM_LANGUAGE	LBL_PM_LANGUAGE						
FieldSels	☑ [CHAR_FIELD8	PM_MODULE	LBL_PM_MODULE						
CaliForms LaunchForms Summary										
					Ok Cancel]				
						-				

Fig 4.5: Adding Data Block Fields

The 'Report Parameter' checkbox has to be checked in case of report parameters. Also, 'Visible' has to be unchecked in all generic parameters. Also, default values are to be given to some of these fields.

For example,

PM_BRANCH_CODE specify the Default value as GLOBAL.CURRENT_BRANCH. PM_BRANCH_DATE specify the Default value as GLOBAL.APPLICATION_DATE. PM_CURRENT_USER specify the Default value as GLOBAL.USER_ID.

Development Workbench would automatically add the Report Options for all Report screens

These report options are

- Report Format
- Report Output (Print, Spool, View)
- Print At (Client/Server)

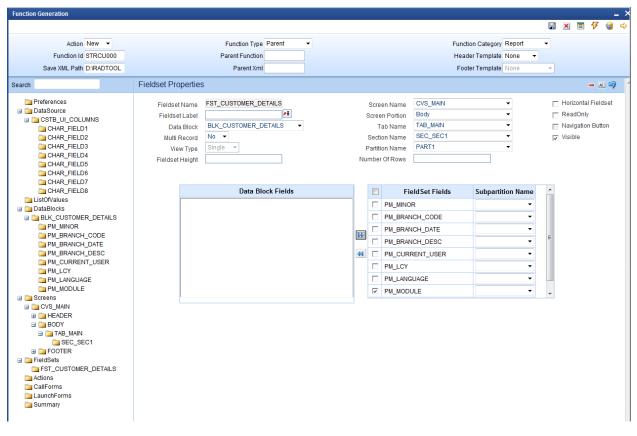
➢ Printer ID

6. To add new field set, right click on field set.

						🔛 🗶 🔳	77 🧃
Action New 👻		Function Type Parent	•		Function Category Re	eport 👻	
Function Id STRCU000		Parent Function			Header Template No	one 🔻	
Save XML Path D:\RADTOOL		Parent Xml			Footer Template No	one 👻	
ch	Fieldset Summary						4
Preferences							
DataSource	Fieldset Name	Screen Name	Screen Portion	Tab Name	Section Name	Partition Name	*
CHAR_FIELD1							_
CHAR_FIELD2							
CHAR_FIELD3							
CHAR_FIELD5							
CHAR_FIELD6							
CHAR_FIELD7							
ListOfValues							
DataBlocks							
BLK_CUSTOMER_DETAILS PM_MINOR							
PM_BRANCH_DATE							
PM_BRANCH_DESC							
PM_CURRENT_USER PM_LCY							
PM_LANGUAGE							
PM_MODULE							
Screens FieldSets							
Call							
LaunchForms							
Summary							
							*

Fig 4.6: Adding field sets

7. Give field set properties:





To preview the screen, right click on the screen name and select 'Preview'.

Function Generation										
								6	🗶 🔳 🎸	🇐 🐳
Action Load + Function Id STRCU000 Save XML Path STRCU000_R			Function T Parent Func Parent1			Heade	n Category Repo r Template None r Template None	•		
Search	Seron I	Dotaile		 				×	(A)	a 49
Preferences DataSource ListOfValues DataBlocks DataBlocks PM_MINOR PM_BRANCH_CODE PM_BRANCH_DATE PM_BRANCH_DATE PM_BRANCH_DESC PM_CURRENT_USER PM_LCY PM_LCY PM_LANGUAGE	<u> </u>	Enter Query r Details Report Format Report Output	Minor Major PDF ¥ Print ¥		nter At Client -]	Exit	at Field	4 Active	-
PM_MODULE Screens Screens FeldSels FeldSels For_CUSTOMER_DETAILS Addons CaliForms LaunchForms Summary										
										Ŧ

Fig 4.8: Preview of Report Form

8. Save and generate the files:

Front-End Filer	Information			>	× Mel	a Data		Others	
RadXML Screen Xmi System JS	Error Description Request successfully Processed		Error Code RD-SAVE-0		zails alls s	Label Details Elock PK Columns Function Call Forms Gateway Details Notification Details Function Parameters Purge Details	Screen Upload Upload	h Annotations Html Table Trigger Tables Definition Table Definition	
SLNo				-		File Type		Status	
2				Ok	UIXML			¥ ¥	
3	sipile_strcu000_main.sql				SPC		Generaled	*	
	CSTB_FIELD_LABELS_STRCU000 INC				INC			*	
	CSTB_OTHER_LABELS_STRCU000 INC				INC			*	
	CST8_FID_DATA_BLOCKSSTRCU000 INC				INC			*	
	CSTB_FID_DATA_SOURCESSTRCU000.INC				INC			*	
	CSTB_FID_SCR_TABSSTRCU000.INC				INC			*	
)	CST8_FID_SOREENSSTRCU000.INC				INC		Generaled	*	
1	SMTB_MENUSTRCU000.INC				INC			*	
2	SMTE ROLE DETAIL STROUGODING				INC			Ţ	
								Generate	Exit

Fig 4.9: Generation of Files

9. Deploy the files

iction Generation										T	đ
ploy											
Front-End F	Ir	nformation				×	n		Others		1
RadXML	-1:85						Label Details	Xsds	Omers		
Screen Xmi		Error Description			or Code		Block PK Columns		hih Annotations		
🗖 System JS		Request successfully Processed		RD-	SAVE-007		Function Call Forms Gateway Details Notification Details Function Parameters Purge Details	Uploa	n Himi d Table Trigger d Tables Delinition e Table Delinition		
SLNo						-	File Type		Status		-
	stpkss				(Dk		Ceployed	*		
	stpkss								*		
3	CST8_1							Ceployed	*		
	CSTBOTH	HER_LABELSSTRCU000 INC				INC		Ceployed			
	CST8_FID	_DATA_BLOCKSSTRCU000 INC				INC		Deptoyed	*		c
	CST8_FID	_DATA_SOURCESSTRCU000JNC				INC		Ceployed	*		
	CST8_FID	_SCR_TABSSTRCU000.INC				INC		Deployed			
	CST8_FID	_SCREENSSTRCU000.INC				INC			•		
	SMT8_ME	NU_STRCU000.INC				INC		Deployed	*		
0	SMT8_RO	LE_DETAILSTRCU000.INC				INC					
1	SMT8_FUI	CTION_DESCRIPTIONSTRCU000.INC				INC			*		
2	SMTR FCX	C FOL MAPPING STROLIODO INC				INC		Denloved	*		•
									Deploy	Exi	
	Do you	want to open or save RAD.ZIP from 10.184.132.100)?				Open Save	▼ Canc	el x		

Fig 4.10: Deployed Files

Deploying the Report Screen:

The deployment can be done by clicking on the 'Deploy' button.

Information Error Description Request successfully Processed		Error Code	Eta Data E Label Details E Label Details E Block PK Colu Function Call G Gateway Deta Notification D+ Function Para Purge Details File Type	Forms Screen ils Upload Mails Upload	Others Ih Annotations Html I Table Trigger I Tables Definitio Status	
			Biock PK Colu Prunchon Call Gateway Deta Notification D Purge Details Purge Details	imns Xsd Wi Forms Screen ils Upload stails Upload	ih Annotations Html Table Trigger Tables Definitio Table Definitio	
			Biock PK Colu Prunchon Call Gateway Deta Notification D Purge Details Purge Details	imns Xsd Wi Forms Screen ils Upload stails Upload	Htmi Table Trigger Tables Delinih Table Deliniho	
Request successfully Processed		RD-SAVE-007	Gateway Deta Gateway Deta Notification CH Purge Details Purge Details	ils Upload	l Table Trigger I Tables Delinili Table Delinilio	
		÷	File Type		Status	
		Ok		Deployed	*	
					*	
				Deployed	*	
HER_LABELSSTRCU000 INC			INC	Deployed	-	
					*	
					*	
					*	
SCREENSSTRCU000.INC		I	INC		* J	
NU_STRCU000.INC		I	INC	Deployed	*	
DLE_DETAILSTRCU000.INC		I	INC	Deployed		
NCTION_DESCRIPTIONSTRCU000.INC		I	INC		•]	
C FOL MAPPING STROLI000 INC		Ĩ	INC	Deninved	*]	
					Donio	v Exit
	D_DATA_BLOCKS_STRCU000.INC D_DATA_SQURCES_STRCU000.INC D_SCR_TABSSTRCU000.INC D_SCREENS_STRCU000.INC ENU_STRCU000.INC DLE_DETAIL_STRCU000.INC INCTION_DESCRIPTION_STRCU000.INC INCTION_DESCRIPTION_STRCU000.INC INC ECLI MAPPING_STRCU000.INC INC EC	D_DATA_SOURCES_STRCU000JNC D_SCR_TABS_STRCU000JNC D_SCREENS_STRCU000JNC ENU_STRCU000JNC DLE_DETAIL_STRCU000JNC JNCTION_DESCRIPTION_STRCU000JNC	D_DATA_SOURCES_STRCU000.INC D_SCR_TABS_STRCU000.INC D_SCREENS_STRCU000.INC ENU_STRCU000.INC DLE_DETAIL_STRCU000.INC INCTION_DESCRIPTION_STRCU000.INC	D_DATA_SOURCES_STRCU000.INC INC D_SCR_TABS_STRCU000.INC INC D_SCREENS_STRCU000.INC INC ENU_STRCU000.INC INC DLE_DETAIL_STRCU000.INC INC INCTION_DESCRIPTION_STRCU000.INC INC	D_DATA_SOURCES_STRCU000JNC INC Deployed D_SCR_TABS_STRCU000JNC INC Deployed D_SCREENS_STRCU000JNC INC Deployed ENU_STRCU000JNC INC Deployed JLE_DETAIL_STRCU000JNC INC Deployed INCTION_DESCRIPTION_STRCU000JNC INC Deployed	D_DATA_SOURCES_STRCU000.INC INC Deployed • D_SCR_TABS_STRCU000.INC INC Deployed • D_SCREENS_STRCU000.INC INC Deployed • ENU_STRCU000.INC INC Deployed • STRCU000.INC INC Deployed • INC Deployed • INC INC Deployed • INC INCTION_DESCRIPTION_STRCU000.INC INC Deployed •

Fig 4.11: Deployment of Screens

A sample report screen:

	BIP_ENG_000_STRCU000_000079	02[2].pdf - Adobe Reader			
<u>Eile E</u> dit ⊻iev	w <u>D</u> ocument <u>T</u> ools <u>W</u> indow <u>H</u> elp				×
88	1 / 3 💌 🖲	75.9% - 🔒 🔛 Find	-		
B					^
_					
	Customer Details				
	Branch 000	Branch Date 2012-03-0		Page 1	
	User Id FCUBS3	Date & Time 13-MAR-2	012 03:09:24	Module ST	
	Customer Details				
	Customer	00000001			
	Customer Name	Mayank	Short Name	Mayank	
	Date of Birth	10-MAR-12	Country	GB	
	Customer Type	1	Nationality	AU	
	Gender	М	Language	ENG	
	Location	GB			1
	Address Line1	BARCGB99	Address Line2	4 ROYAL MINT COURT ,	
	Address Line3	LONDON EC3 NHJ	Address Line4	ENGLAND	
]
	Customer	00900001			
	Customer Name	CHARLES	Short Name	CHARLES	
	Date of Birth	24-MAR-12	Country	AU	
	Customer Type Gender	M	Nationality Language	AU ENG	
	Gender	IM	Language	ENG	
	Location	AU			
	Address Line1	ANZBAU99	Address Line2	570 CHURCH STREET,	
	Address Line3	MELBOURNE 3121	Address Line4	AUSTRALIA	
	Location	GB			
	Address Line1	CAMHDE99	Address Line2	PLATZ DER EINHEIT 1,	
	Address Line3	FRANKFURT AM MAIN	Address Line4	GERMANY	
		E	ND OF REPORT		
19					
Ø					
<i>©</i>					
					×

5. RTF and XDO Files

The rtf file contains the specification for the layout of the report screen.

The xdo file contains the queries which will pick up the relevant values from the back end. The columns to be loaded also should be added in this file.

Both RTF and xdo files needs to be deployed in the BIP server for launching Reports from FLEXCUBE

6. Coding in Hook Package

- Code for deriving the bind values in xdo query has to be written in Hook package and the same has to be called on loading the xdo .Usually the function **Afterpform** is written in Hook package for this purpose.
- Any functions used in the xdo query is usually written in the Hook package .



Development of Report Forms [August] [2021] Version 14.5.2.0.0

Oracle Financial Services Software Limited Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India

Worldwide Inquiries: Phone: +91 22 6718 3000 Fax:+91 22 6718 3001 www.oracle.com/financialservices/

Copyright © 2020, 2021 Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.