Development of Report Forms Oracle Banking Trade Finance Release 14.6.1.0.0 [August][2022]



Contents

1. Pi	reface	.3
1.1.	Audience	.3
1.2.	Related Documents	.4
	ntroduction	
3. O	Overview of FLEXCUBE Reports	.4
4. D	Designing Report Form	.4
5. R'	TF and XDO Files	14
6. C	oding 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

05-Development WorkBench Screen Development-II.docx

2. Introduction

This document provides information on:

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

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

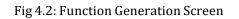
1. Login to FLEXCUBE Development workbench

ORACLE FLEXCUBE Development Workbench for Universal Banking - Windows Internet Explorer		And in case of the local division of the loc	
DRACLE"			
ORACLE FLEXCUBE Development Workbench for Universe	al Banking		
LOGIN			
Password			
Sign In			
iopyright © 2012, Oracle and/or #s 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'.

Action New Function Type Parent Function Category Report Header Template None Header Strukture Header Strukture Header
Function Id STRCU000 Parent Function Header Template None Save XML Path D/RADTOOL Parent Xml Footer Template None Search Preferences Head Office Function Module DataSource Logging Required Module Description Static Maintenance DataSource Auto Authorization Branch Program Id Static Maintenance DataSource Tank Modifications Process Code Static Maintenance FieldSets Field Log Required SVN Repository URL Choose Block Galfforms Multi Branch Access Transaction Block Name LaunchForms Excel Export Required Name Choose Field
Save XML Path D/RADTOOL Parent Xml Footer Template None Search Preferences Image: Constraint of the second of the sec
Search Preferences Preferences I Head Office Function Module ST DataSource Logging Required Module Description Static Maintenance DataBlocks Auto Authorization Branch Program Id Image: Comparison of the comparison o
Preferences Head Office Function Module ST PE DataSource Logging Required Module Description Static Maintenance ListOV/alues Auto Authorization Branch Program Id Streens DataSlocks Tank Modifications Process Code Streens FieldSets Field Log Required SVN Repository URL Callforms Callforms Multi Branch Access Transaction Field Choose Elock LaunchForms Excel Export Required Name Choose Field
DataSource Logging Required Module Description Static Maintenance ListOf/Values Auto Authorization Branch Program Id Static Maintenance DataBlocks Tank Modifications Process Code Static Maintenance FieldSets Tank Modifications Process Code Static Maintenance Actions Field Log Required SVN Repository URL SVN Repository URL CallForms Multi Branch Access Transaction Block LaunchForms Excel Export Required Name Choose Field <
ListOfValues Logging Required Module Description Static Maintenance DataBlocks Auto Authorization Branch Program Id Image: Compare to the set of the set
DataBlocks Auto Authorization Branch Program Id Screens Tank Modifications Process Code FieldSets Field Log Required SVN Repository URL Actions Multi Branch Access Transaction Block CallForms Excel Export Required Name Summary Transaction Field Choose Field
Field Sets Field Log Required SVN Repository URL Actions Multi Branch Access Transaction Block CallForms Multi Branch Access Transaction Block Launch Forms Excel Export Required Name Summary Transaction Field Choose Field
Actions Multi Branch Access Transaction Block Choose Block CallForms Excel Export Required Name Excel Export Required Transaction Field Choose Field
CallForms Multi Branch Access Transaction Block Choose Block LaunchForms Excel Export Required Transaction Field Choose Field
LaunchForms Transaction Field Choose Field
Control String
Function Id Module * Module Description
STRCU000 ST PE Static Maintenance

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.

Function Generation				_ ×
Action New + Function Id STRCL000 Save XML Pain DRRADTOOL	Function Type Parent Parent Function Parent Xml	Function Category Repor Header Template None Fooler Template None		
Search AddTz	athe	×		* 1
DalaSource	No Name RE As Name Data Source X	arent	Relation Type	
Screens FieldSels Actions CaliForms	Table Name CSTB_UI_COLUMNS			
LaunchForms	Search Reset			
	<<< 1of1678 >>>			
	Table Name NVOBJ7MAY_AFTER			
	INVOBJ7MAY_BEFORE 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 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 Type Parent	¥	Function Category Report	× 1a	III 7 🧃 🛶
Parent Function		Header Templale None	¥	
Parent Xml		Fooler Template None	*	
& Add UI Fields		×		🔶 = 🖄 🛂
ields UI Fields		omer-Delalis		
			R	
asource CSTB_UI_COLUMNS - Imn Name Field Name	Label Code	¥		
	LBL_PM_MINOR	*		
ELD2 PM_BRANCH_CODE	LBL_PM_BRANCH_CODE	mai 👻		
ELD3 PM_BRANCH_DATE	LBL_PM_BRANCH_DATE	ted		
LD4 PM_BRANCH_DESC	LBL_PM_BRANCH_DESC			
ELD5 PM_CURRENT_USER	LBL_PM_CURRENT_USER			
ELD6 PM_LCY	LBL_PM_LCY			
PM_LANGUAGE	LBL_PM_LANGUAGE			
ELD8 PM_MODULE	LBL_PM_MODULE			
	*			
	0	k Cancel		
	LUS PM_MODULE			

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)

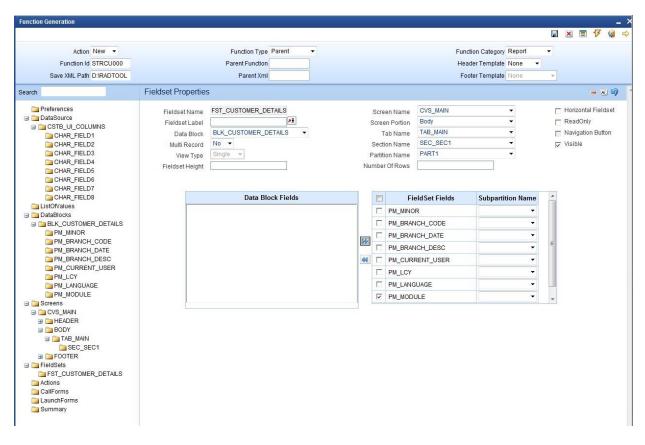
➢ Printer ID

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

						🔚 🗙 🔳	V 🧃
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						+
Preferences							
DataSource CSTB_UI_COLUMNS	Fieldset Name	Screen Name	Screen Portion	Tab Name	Section Name	Partition Name	*
CHAR_FIELD1							
CHAR_FIELD2							
CHAR_FIELD3							
CHAR_FIELD5							
CHAR_FIELD6							
CHAR_FIELD7							
CHAR_FIELD8							
DataBlocks							
BLK_CUSTOMER_DETAILS							
PM_MINOR							
PM_BRANCH_CODE PM_BRANCH_DATE							
PM_BRANCH_DESC							
DM_CURRENT_USER							
PM_LCY							
PM_LANGUAGE PM_MODULE							
Screens							
FieldSets							
Acti Add							
📬 LaunchForms 🛅 Summary							
	L						Ŧ

Fig 4.6: Adding field sets

7. Give field set properties:





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

																	× 🔳 1	7 🔘 o
Action Load *					Funch	on Type	*					Fund	ion Categ	jory Repo		*		
Function Id STRCU000					Parent F	unction						Head	ler Torrip	lale None	*			
Save XML Palh STRCU000_R					Par	ent Xml						Foo	lər Temp	late None)	*		
Search	C./	man D	Intaile											;	×		-	U 🙀 🧐
m Preferences		0	? Enter	Query														
DalaSource ListOf/alues	c	ustomer	Details															
DalaBlocks					Min													
BLK_CUSTOMER_DETAILS PM_MNOR					🔵 Maj	or				7.1								
PM_BRANCH_CODE				t Format rt Output	PDF	*			Printer /		nt 🔻							
PM_BRANCH_DESC			Repoi	n Output	Print	Ŧ			FILLE	:1							4	F -
PM_CURRENT_USER														_	ot Fiel	d	Active	
														Exit				
Screens																		
FieldSals																		
FST_CUSTOMER_DETAILS																		
CaliForms																		
LaunchForms																		
																		*

Fig 4.8: Preview of Report Form

8. Save and generate the files:

Front-End File	Information		×	Me	ta Data	Others	
i Katoliik 19 Green Xmi 19 System JS	Error Description Image: Ima	Error Code RD-SAVE-00	7	ails alls S Is	Elock PK Columns Elock PK Columns Function Call Forms Gateway Details Notification Details Function Parameters Purge Details	Xad Wilh Annotations Screen Html Upload Table Trigger Upload Tables Definition Archive Table Definition	
SLNo					File Type	Status	
			Ok	UIXM JS SPC		Generaled Generaled Generaled	
	slpks_strcu000_main.sql			SQL.		Generaled -	7
	CSTB_FIELD_LABELSSTRCU000 INC			INC		Generaled +	
	CSTB_OTHER_LABELSSTRCU000 INC			INC		Generaled	
	CST8_FID_DATA_BLOCKSSTRCU000 INC			INC		Generaled -	
	CST8_FID_DATA_SOURCESSTRCU000.INC			INC		Generaled	
	CSTB_FID_SCR_TABSSTRCU000.INC			INC		Generaled -	
)	CSTB_FID_SCREENS_STRCU000.INC			INC		Generaled	
1	SMTB_MENUSTRCU000.INC			INC		Generaled	
2	SMTR ROLE DETAIL STROUGODINC			INC		Generalad	
						Generate	xit

Fig 4.9: Generation of Files

9. Deploy the files

Front-End Film	B Info	rmation		×	Na Data	Others
] RadXML] Screen Xmi] System JS		Error Description Processed	Error Code RD-SAVE-007	*	Label Details Block PK Columns Function Call Forms Gateway Details Notification Details	Xeds Xed With Annotations Screen Html Upload Table Trigger Upload Tables Delimition
SLNo					Purclion Parameters Purge Cletails File Type	Archive Table Dalimition
	sipks_s			*		Deployad 👻
	sipks_s		O	k		Failed
	CST8_I					Deployed +
	CSTB_OTHE	R_LABELSSTRCU000 INC		INC		Deployed -
	CSTB_FID_D	ATA_BLOCKSSTRCU000 INC		INC		Deployed +
	CSTB_FID_D	ATA_SOURCES_STRCU000.INC		INC		Deployed 👻
	CSTB_FID_S	CR_TA89_STRCU000.INC		INC		Deployed +
	CSTB_FID_S	CREENS_STRCU000.INC		INC		Deployed 👻
	SMTB_MENU	_STRCU000.INC		INC		Deployed 🔹
0	SMTB_ROLE	_DETAILSTRCU000.INC		INC		Deployed -
1	SMTB_FUNC	TION_DESCRIPTIONSTRCU000.INC		INC		Deployed 🔹
2	SHITE FOC I	ROLEMAPPING STROLIODO INC		INC		

Fig 4.10: Deployed Files

Deploying the Report Screen:

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

Front-End Files	Information	×	leta Data	Others
] RadKML] Screen Xmi] System JS	Error Description Image: Constraint of the second secon	Error Code	Label Details Elock PK Columns Function Call Forms Gateway Details Notification Details Function Parameters Purge Details	Xsds Xsd Wilh Annotations Screen Html Upload Tables Trigger Upload Tables Delimikon Archive Table Delimikon
SLNo			File Type	Status
	lpks_s	Ok		Deployed +
	ipks_s	OK		Failed
	STE_I			Deployed +
	STE_OTHER_LABELSSTRCU000 INC	INC		Deployed
	STE_FID_DATA_BLOCKSSTRCU000 INC	INC		Deployed +
	STE_FID_DATA_SUDRCES_STRCU000.INC	INC		Deployed +
	STE_FID_SCR_INESSTRC0000.INC	INC		Deployed -
	MTE_MENU_STRCU000.INC	INC		Deployed +
	WT6_ROLE_DETAIL_STRCU000.INC	INC		Deployed -
	MTE_FUNCTION_DESCRIPTIONSTRCU000JNC	INC		Deployed +
	MTR FCC FCL MAPPING STRCH000 INC	INC		Denimad -

Fig 4.11: Deployment of Screens

A sample report screen:

Customer Details			
Branch 000	Branch Date 2012-03-01	1	Page 1
User Id FCUBS3	Date & Time 13-MAR-20	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	M	Language	ENG
Location	GB		
Address Line1	BARCGB99	Address Line2	4 ROYAL MINT COURT .
Address Line3	LONDON EC3 NHJ	Address Line4	ENGLAND
Customer Customer Name	009000001 CHARLES	Short Name	CHARLES
Date of Birth	24-MAR-12	Country	AU
Customer Type	1	Nationality	AU
Gender	M	Language	ENG
Location	AU		
Address Line1	ANZBAU99	Address Line2	570 CHURCH STREET,
Address Line3	MELBOURNE 3121	Address Line4	AUSTRALIA
Location	GB		
		Address Line2	PLATZ DER EINHEIT 1
Address Line3 Location Address Line1 Address Line3	GB CAMHDE99 FRANKFURT AM MAIN	Address Line4 Address Line2 Address Line4	PLATZ DER EINHEIT 1, GERMANY

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] [2022] Version 14.6.1.0.0

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 © 2022, 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.