# Development of Report Forms Oracle FLEXCUBE Universal Banking

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## 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
5	
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	<u>Oracle FLEXCUBE Enterprise Limits and</u> <u>Collateral Management ODT Screen</u> <u>Development</u>
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

Oracle FLEXCUBE Enterprise Limits and Collateral Management ODT Screen Development

Development Workbench - Screen Development II

## 2. Introduction

This document provides information on:

- Chapter 1, "Introduction"
- <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.

O	RA	E.
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Oracle FLEXCUBE Development   WorkBench for Universal Banking     Username     Password     Sign In		
Username   Password		
Username   Password	Oracle ELEVOLIDE Development	
Username   Password		
Password	WorkBench for Universal Banking	
Password		
Password		
Password		
	Username Username	
	O Decement	
Sign In	0 Password	
Sign In		
	Sign In	

Fig 4.1 Login Page

2. From browser, select 'Function Generation.'



Fig 4.2: Function Generation Screen

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			_ ×
			🖫 🗷 L C 7 🧐
Action Load V Function Id CIRPRETR Save XML Path CIRPRETR_RAI	Function Type P Parent Function	arent V	Function Category Report
Search	BROWSE Parent Xml Preferences		Footer Template None 🗸
Preferences DataSource ListOfValues DataBlocks Screens FieldSets Actions CallForms LaunchForms Summary	Head Office Function Logging Required Auto Authorization Module Auto Authorization Tank Modifications Field Log Required Mutti Branch Access Excel Export Required Java Functions GateWay Screen	Module Description Module Oscription Branch Program Id Process Code SVN Repository URL s	CI Islamic Financing
·	Menu Detaila     Parameter Value Mappings       Image: Parameter Value Mapping	Module *	Control String + - Module Descri * Islamic Financing

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 Load V Function Id CIRPRETR Save XML Path CIRPRETR_RAI	Function Type Parent Parent Function BROWSE Parent Xml	Function Category Report Header Template None Footer Template None	4
Search			ני ניים בי
Preferences Preferences Casta UL_COLUMNS ListOfValues DataBlocks Screens FieldSets Actions CaliForms LaunchForms Summary	Table Name Alias Name Ok Cancel Data Source Table Name CSTB_UL_COLUMNS Search C 10/2015 Table Name		
	CSZM_TASK_TYPES CSZM_UDF_VALS CSZM_UDF_VALS CYZB_CCY_PAIR_MASTER CYZB_DERIVED_RATES_HISTORY CYZB_RATES_HISTORY CYZB_RATES_REVAL CYZM_CCY_DEFN_MASTER CYZM_CCY_DEFN_MASTER		

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

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Action Load ~	Function Type Parent V	Function Cate	gory Report V
Function Id CIRPRETR	Parent Function	Header Tem	plate None V
Save XML Path CIRPRETR_RAI	BROWSE Parent Xml	Footer Tem	plate None 🗸
earch	Data Block Summary		ф
references			
ataSource	Datablock Name	Parent	Relation Type
stOfValues	BLK_MAIN		One To One 🗸
DataBlocks BLK_Add			
creens			
eldSets			
ctions			
allForms			
aunchForms			
ummary			

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,

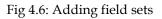
*PM\_BRANCH\_CODE specify the Default value as GLOBAL.CURRENT\_BRANCH. PM\_BRANCH\_DATE specify the Default value as GLOBAL.APPLICATION\_DATE. PM\_CURRENT\_USER specify the Default value as GLOBAL.USER\_ID.* 

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.

						🖬 🗙 L C	3
Action Load ~		Function Type Parent 🗸			Function Category Re	port 🗸	
Function Id CIRPRETR		Parent Function			Header Template No	ne 🗸	
Save XML Path CIRPRETR_RAI	BROWSE	Parent Xml			Footer Template No	ne 🗸	
Search	Fieldset Summary						ď
Preferences							
<sup>•</sup> DataSource •ListOfValues	Fieldset Name	Screen Name	Screen Portion	Tab Name	Section Name	Partition Name	*
DataBlocks	FST_FIELD1	CVS_MAINS	Body 🗸	TAB_MAIN	SEC_SEC1	PART1	
►BLK_MAIN	FST_DATES	CVS_MAINS	Body 🗸	TAB_MAIN	SEC_DATE	P1	
Screens	FST_MAT_DATE	CVS_MAINS	Body 🗸	TAB_MAIN	SEC_DATE	P2	
CallForms							
LaunchForms Summary							



7. Give field set properties:

Function Generation									
								F	× L C 🞸
Action Load V		Function Type Parent	~			Fu	unction Category Report	~	
Function Id CIRPRETR		Parent Function				H	Header Template None	~	
Save XML Path CIRPRETR_RAI	BROWSE	Parent Xml					Footer Template None	~	
Search	Fieldset Properties								- 🗷 🧐
Preferences	Fieldset Name	FST_FIELD1			Fieldset Type	Normal	~		Horizontal Fieldset
DataSource	Fieldset Label	LBL_CONTRACT_RETRIEVAL	0		Screen Name	CVS_MAINS	~	ļ	ReadOnly
ListOfValues	Data Block	BLK_MAIN	1		Screen Portion	Body	~		Navigation Button
DataBlocks	Multi Record	No 🗸			Tab Name		~		Width
▶BLK_MAIN	View Type	Single 🗸			Section Name		~		✓ Visible
Screens	Fieldset Height				Partition Name	PART1	~		
FieldSets	Number Of Rows								
FST_FIELD1									
FST_DATES									
FST_MAT_DATE		Data Block Fields				FieldSet Fields	Subpartition	Name	
Actions		Bata Blook Fieldo			_		Subpartition	Name	
CallForms			Ê		PM_PROD	-	1	~	
LaunchForms					PM_PROD	UCT_CODE	1	~	
Summary					PM_ACCO	UNT_CCY	1	~	
				${\bf P}{\bf P}$	PM_CUST	OMER	1	~	
				44	PM_MATU	RITY_TYPE	2	~	
					PM_ACCO	UNT_STATUS	2	~	
					PM_AUTH	STATUS	2	~	
			-						

Fig 4.7: Providing Field set Properties

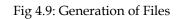
To preview the screen, right click on the screen name and select 'Preview'.

Function Generation							_ ×
						× L C	17 🧃
Action Load ~	Function * Parent Fun	Type Parent V		Function Category Rep Header Template Nor			
Save XML Path CIRPRETR_RAI				Footer Template Nor			
Search	Screen Details					- 🔍	🗔 🦃 🕯
Preferences DataSource ListOfValues DataBlocks Screens FCVS_MAI Delete FieldSets December	Screen Name CVS_MAINS Screen Title Screen Size Small Exit Button Type Default Ok Car	v Incel v	Main Screen     OBIEE     Visible     Query Required     Query all Img Required				
Actions Preview						+	-
CallForms	Argument Name So	ource Block Source Field	Argument Value	Target Block T	Target Field	Active	•
LaunchForms							
Summary							

Fig 4.8: Preview of Report Form

8. Save and generate the files:

rate       Front-End Files     System Packages     Mok Packages     Meta Data     Others       RadXML     Image: Colspan="2">Main Package Spec     Menu Details     Label Details     System Package Spec       Screen Xml     Image: Main Package Body     Image: Kernel Package Body     Image: Colspan="2">Datasource Details     Block PK Columns     Screen Html							C 4
RadXML	erate						
Screen Xml              ✓ Main Package Body               Kernel Package Body               Datasource Details               Block PK Columns               Screen Html          System JS        Notification Triggers               Cluster Package Body               LOV Details               Function Call Forms               Upload Table Trigger          Upload Package Spec              Cluster Package Body               Block Details               Gateway Details               Upload Tables Definition          Upload Package Body               Custom Package Body               Screen Details               Notification Details               Archive Table Definition          Java Classes               Custom Package Body               Custom Package Body               Call form Details               Purge Details               Archive Table Definition          Call form Details               Purge Details               Purge Details               Purge Details               Stype	Front-End Files	System Packages	Hook Packages		Meta Data	Others	-
SI.NO File Name File Type Status	RadXML 2 Screen Xml 2 System JS	<ul> <li>Main Package Body</li> <li>Notification Triggers</li> <li>Upload Package Spec</li> <li>Upload Package Body</li> </ul>	Kernel Package Body     Cluster Package Spec     Cluster Package Body     Custer Package Body     Custom Package Spec	Datasource Details LOV Details Block Details Screen Details Amendable Details Call form Details Summary Details	Block PK Columns Function Call Forms Gateway Details Notification Details Function Parameters Uruge Details	Screen Html Upload Table Trigger Upload Tables Definition	
	SI.No		File Name	Fi	le Туре	Status	



ction Generation	Nomeduon mygers	- сизан паскаде эрес	- LOY DEMIS		- C 7 (
	Upload Package Spec Upload Package Body Java Classes	Cluster Package Body Custom Package Spec Custom Package Body	Block Details Screen Details Amendable Details	Gateway Details	Upload Tables Definition
	Information			Purge Details ELCM MetaData Class	
	Information Description		Information Code		×
SI.No	Request successfully Pr	ocessed		File Type	Status 🔺
1 CIRP	RE			UIXML	Generated ~
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					v
					Generate Exit

- Fig 4.10: Generated Files
- 9. Deploy the files.

у						
Front-End Files	System Packages	Hook Packages		Meta Data	Others	
RadXML Screen Xml System JS	<ul> <li>Main Package Spec</li> <li>Main Package Body</li> <li>Notification Triggers</li> <li>Upload Package Spec</li> <li>Upload Package Body</li> <li>Java Classes</li> </ul>	Kernel Package Spec     Kernel Package Body     Cluster Package Body     Cluster Package Body     Custom Package Spec     Custom Package Body	Menu Details     Datasource Details     LOV Details     Block Details     Screen Details     Armendable Details     Call form Details     XSD Details	Label Details     Block PK Columns     Function Call Forms     Gateway Details     Notification Details     Function Parameters     Purge Details     ELCM MetaData Class	Xsds       Screen Html       Upload Table Trigger       Upload Tables Definition       Archive Table Definition	
SI.No		File Name	FI	ile Type	Status	

Fig 4.11: Deployment of Files

Deploying the Report Screen:

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

						I 🗙 🛛	C 7
yatom do		Upload Package Spec         Cluster Package Spec           Upload Package Body         Custom Package Spec           Java Classes         Custom Package Body		Block Details Block Details Screen Details Amendable Details	Gateway Details Notification Details	Upload Tables Definition	
		Information		Purge Details ELCM MetaData Class			
		Information Description		Information Code			
		Request successfully R	Processed				
SI.No					File Type	Status	
	CIRPRE				UIXML	Failed V	
	CIRPRE				JS	Falled V	
	cipks_c				SPC	Deployed V	
	clpksc			Ok	SQL	Deployed V	
	CIRPRE				RADXML	Generated V	

Fig 4.12: Deployed files

#### Reports\_BIP\_ENG\_000\_STRCU000\_00007902[2],pdf - Adobe Reader Ele Edt View Document Icols Window Help 🔶 👆 1 / 3 💿 🖲 75.9% - 拱 🛃 Find ÷ ß Customer Details Branch 000 User Id FCUBS3 Branch Date 2012-03-01 Date & Time 13-MAR-2012 03:09:24 Page 1 Module ST **Customer Details** 000000001 Mayank 10-MAR-12 Customer Customer Name Date of Birth Customer Type Short Name Country Nationality Language Mayank GB AU ENG M Location Address Line1 Address Line3 GB BARCGB99 LONDON EC3 NHJ Address Line2 Address Line4 4 ROYAL MINT COURT , ENGLAND 009000001 CHARLES 24-MAR-12 Customer Customer Name Date of Birth Customer Type Gender CHARLES AU AU ENG Short Name Country Nationality Language M Location Address Line1 Address Line3 AU ANZBAU99 MELBOURNE 3121 570 CHURCH STREET, AUSTRALIA Address Line2 Address Line4 Location Address Line1 Address Line3 GB CAMHDE99 FRANKFURT AM MAIN Address Line2 Address Line4 PLATZ DER EINHEIT 1, GERMANY --END OF REPORT--

#### A sample report screen:

## 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 .



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