Development of Report Forms

Oracle FLEXCUBE Universal Banking

Release 14.5.5.0.0

Part No. F56689-01

[May] [2022]



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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 |
|--|---|
| 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>
- 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.

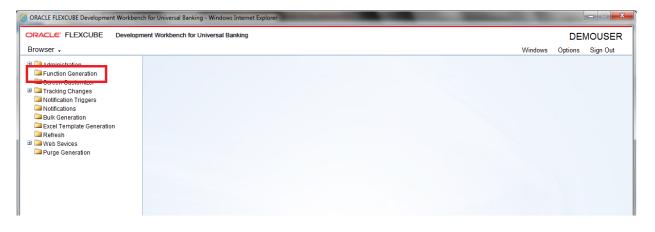
4. Designing Report Form

1. Login to FLEXCUBE Development workbench

| ORACLE FLEXCUBE Development Workbench for Universal Banking - Windows Internet Explorer | |
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| ORACLE FLEXCUBE Development Workbench for Universal Banking | |
| | |
| LOGIN | |
| | |
| Password | |
| Sign In | |
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| Copyright © 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'.

| Function Generation | | | | | | | - | × |
|--|--|--------------------------------|--|-----------------------------|--------------|--------|----------|---|
| | | | | | F 🗶 🛙 | 1 | 🧐 🖕 | Þ |
| Action New Function Id STRCU000 Save XML Path D/RADTOOL | Function Ty Parent Functi Parent X | n | v | Function Category Report | - | | | |
| Search | Preferences | | | · | | | 6 | |
| Preferences DataSource ListOfValues DataBlocks Screens FieldSets Actions LaunchForms Summary | Head Office Fur Logging Requir Auto Authorizati Tank Modificati Field Log Requ Mutti Branch Ac Excel Export Re | ed on ins red cess | Module Module Description Branch Program Id Process Code SVN Repository URL Transaction Block Name | ST PE Static Maintenance | | | | |
| | | | | | Control Stri | ng 🕂 – | | |
| | Function Id | 10 | Module * | Module Description | | | Î | |
| | STRCU000 | та | | 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 | | | | | | | | × |
|-----|-------------------------|----------------|------------|-------------------------------|--------------|---------------|---------------|-------------|-----|
| | | | | | | | I | B 13 | 🧐 🤣 |
| | Act | ion New 👻 | | Function Type Parent | Function Cal | tegory Report | w | | |
| | Function | Id STRCU000 | | Parent Function | | npiale None | * | | |
| | | alh D:\RADTOOI | | Parent Xml | | nplate None | * | | |
| | | | | | | TROTTO | | | |
| 8ea | irch | | AddTable | | × | | | | + / |
| | 🚞 Preferences | | Table Name | 54 | | | | | |
| | DalaSource | | Alias Name | | | | - | | |
| | ListOfValues DalaBlocks | | | Data Source X | arent | | Relation Type | | |
| | Screens | | | | | | | | |
| | EveldSets | | | Table Name CSTB_UI_COLUMNS | | | | | |
| | ia Actions | | | | | | | | |
| | CallForms | | | | | | | | |
| | Summary | | | | | | | | |
| | outcontiony | | | Search Reset | | | | | |
| | | | | << < 1of1678 > >> | | | | | |
| | | | | Table Name | | | | | |
| | | | | INVOBJ7MAY_AFTER | | | | | |
| | | | | INVOBJ7MAY_BEFORE | | | | | |
| | | | | REFERENCED_NAME_LIST | | | | | |
| | | | | DITE JOB_TYPES | | | | | |
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| | | | | 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 | | | | | ÷ |
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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)

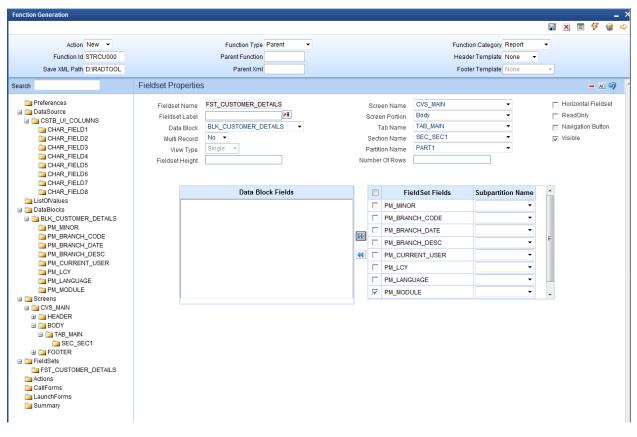
➢ Printer ID

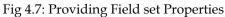
6. To add new field set, right click on field set.

| | | | | | | 🔚 🗶 🔳 | 79 🧐 |
|----------------------------|------------------|----------------------|----------------|----------|---------------------|----------------|------|
| | | | | | - | | |
| Action New 🔻 | | Function Type Parent | • | | Function Category R | | |
| Function Id STRCU000 | | Parent Function | | | Header Template N | one 🔻 | |
| Save XML Path D:\RADTOOL | | Parent Xml | | | Footer Template N | one 👻 | |
| ch | Fieldset Summary | | | | | | 4 |
| Preferences | | | | | | | |
| DataSource CSTB_UI_COLUMNS | Fieldset Name | Screen Name | Screen Portion | Tab Name | Section Name | Partition Name | * |
| CHAR_FIELD1 | | | | | | | |
| CHAR_FIELD2 | | | | | | | _ |
| CHAR_FIELD3 | | | | | | | |
| CHAR_FIELD4 | | | | | | | |
| CHAR_FIELD6 | | | | | | | |
| CHAR_FIELD7 | | | | | | | |
| CHAR_FIELD8 | | | | | | | |
| istOfValues | | | | | | | |
| DataBlocks | | | | | | | |
| BLK_CUSTOMER_DETAILS | | | | | | | |
| DM_MINOR | | | | | | | |
| PM_BRANCH_DATE | | | | | | | |
| PM_BRANCH_DESC | | | | | | | |
| DM_CURRENT_USER | | | | | | | |
| PM_LCY | | | | | | | |
| PM_LANGUAGE | | | | | | | |
| PM_MODULE | | | | | | | |
| □ Screens □ FieldSets | | | | | | | |
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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:

| rate | Information | | | | < | | | | |
|---|---|------|------------|----|--------------------|---|------------------------|---|------|
| Front-End File RadXML Screen Xml System JS | Error Description Request successfully Processed | | Error Code | • | | la Data Label Details Label PK Columns Function Call Forms | Xsds Xsd W Scree | /ilh Annotations | |
| | | | | | alis s is | Gateway Details Notification Details Function Parameters Purge Details | Uploa | id Table Trigger id Tables Delinition re Table Delinition | |
| SLNo | | | | - | | File Type | | Status | |
| | | | | Ok | UIXML JS SPC | | | * *) | |
| | slpks_strcu000_main sql | | | | SQL | | Generaled | - | |
| | | | | | INC | | | * | |
| (| CSTE_OTHER_LABELSSTRCU000 INC | | | | INC | | Generaled | * | |
| (| CSTB_FID_DATA_BLOCKSSTRCU000 INC | | | | INC | | Generated | | |
| (| STB_FID_DATA_SOURCESSTRCU000.INC | | | | INC | | | * | |
| (| STE_FID_SCR_TABSSTRCU000.INC | | | | INC | | | * | |
| (| CSTE_FID_SCREENS_STRCU000.INC | | | | INC | | Generated | | |
| \$ | MT8_MENUSTRCU000.INC | | | | INC | | | * | |
| | MTR. ROLE DETAIL STROUGGING | | | | INC | | | | |
| | | | | | | | | Generate | Exit |
| | | | | | | | | | |

Fig 4.9: Generation of Files

9. Deploy the files

| iloy | | formation | | | × | | | | |
|-------------|-----------|---------------------------|---------|-------------|-----|--|-----------|--|-----|
| Front-End F | iles | | | | | eta Data | Xsds | Others | |
| Screen Xmi | | Error Descrip | otion | Error Code | * | Block PK Columns | | In Annotations | |
| System JS | | Request successfully Pr | ocessed | RD-SAVE-007 | | Function Call Forms Gateway Details Notification Details Function Parameters Purge Details | Upload | Htmi I Table Trigger I Tables Definition Table Definition | |
| | | | | | | | | | |
| SLNo | | | | | - | File Type | | Status | |
| 2 | sipkss | | | Γ | Ok | | Deployed | * | |
| | sipkss | | | L | | | | | |
| | CST8I | | | | | | | * | |
| | CST8_OTH | IER_LABELSSTRCU000 INC | | | INC | | Deployed | * | |
| | CST8_FID_ | DATA_BLOCKSSTRCU000 INC | | | INC | | Deployed | | |
| | CST8FID_ | _DATA_SOURCESSTRCU000.INC | | | INC | | Creptoyed | • | |
| | CST8_FID | SCR_TABSSTRCU000.INC | | | INC | | Deployed | ¥ | |
| | CST8_FID | SCREENSSTRCU000.INC | | | INC | | | * | |
| | SMT8_MEN | IU_STROU000.INC | | | INC | | | | |
|) | SMT8_ROL | E_DETAILSTRCU000.INC | | | INC | | | • | |
| 1 | SMT8_FUN | CTION_DESCRIPTIONSTRCU000 | JNC | | INC | | | * | |
| > | SMTR FCC | FOL MAPPING STROUGDOINC | | | INC | | Centored | | |
| | | | | | | | | | |
| | | | | | | | | Deploy | Exi |
| | | | | | | | | | |
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Fig 4.10: Deployed Files

Deploying the Report Screen:

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

| Front-End F | iles | ormation | | | × | Data | | Others | |
|-----------------------------------|------------------------------|---|--|---------------------|-------|--|--------------------------------|---|---------|
| RadXML Screen Xmi System JS | | Error Description Request successfully Processed | | or Code SAVE-007 | | Label Details Elock PK Columns Function Call Forms Gateway Details Notification Details Purglian Parameters Purglian Details | Screen Upload Upload | h Annotations Html Table Trigger Tables Definition Table Definition | |
| SLNo | | | | | - | File Type | | Status | |
| | stpks_s stpks_s CSTB_I | | | (| Dk | | Deployed Failed Deployed | * * | |
| | CST8_OTHE | ER_LABELSSTRCU000 INC | | | INC | | | × | |
| | | DATA_BLOCKSSTRCU000 INC | | | INC | | Deployed | | |
| | | DATA_SOURCESSTRCU000JNC | | | INC | | Deployed | • | |
| | | SCR_TABSSTRCU000JNC | | | INC | | Deployed | * | |
| | | SCREENSSTRCU000.INC | | | INC | | Deployed | * | |
| | | J_STRCU000.INC | | | INC | | Deptoyed | - | |
| 0 | | _DETAILSTRCU000.INC | | | INC | | Deployed | * | |
| 1 | | CTION_DESCRIPTIONSTRCU000.INC | | | INC | | Deployed | * | |
| 2 | SHIP PLA | FLI MAPPING SINGLOUD PR. | | | ipit. | | | Deplo | ey Exit |
| | | | | | | | | | |

Fig 4.11: Deployment of Screens

A sample report screen:

| | ts_BIP_ENG_000_STRCU000_000 | | | | |
|-------------------|---|-------------------------------|--------------------------------|---------------------------------|------|
| <u>File E</u> dit | <u>View D</u> ocument <u>T</u> ools <u>W</u> indow <u>H</u> elp |) | | | × |
| 8 | 🖏 👍 🐥 1 / 3 💿 | 🖲 75.9% - 😸 🛃 Find | • | | |
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| - | | | | | |
| | 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 Gender | M | Nationality Language | ENG | |
| | Gender | m | Language | ENG | |
| | | | | | . 84 |
| | Location | GB | | | |
| | Address Line1 | BARCGB99 | Address Line2 | 4 ROYAL MINT COURT, | |
| | Address Line3 | LONDON EC3 NHJ | Address Line4 | ENGLAND | |
| | | | | | · • |
| | - | 00000001 | | | |
| | 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 | | | 1 |
| | Address Line1 | ANZBAU99 | Address Line2 | 570 CHURCH STREET, | |
| | Address Line3 | MELBOURNE 3121 | Address Line4 | AUSTRALIA | |
| | | | | | |
| | Location | GB | | | |
| | Address Line1 Address Line3 | CAMHDE99 FRANKFURT AM MAIN | Address Line2 Address Line4 | PLATZ DER EINHEIT 1, GERMANY | |
| | Address Lines | FRANKFORTAWIMAIN | Address Line4 | GERMANT | |
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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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