

BIP Report Integration
Oracle FLEXCUBE Investor Servicing
Release 14.1.0.0.0
[May] [2019]



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1. Preface

This document describes steps to integrate the BIP report created in BI Publisher with the FLEXCUBE IS Open Development environment.

1.1 Audience

The Report getting started book is intended for the FLEXCUBE Application Developers who perform the following tasks with BIP:

- Integrate the Report with FLEXCUBE IS function ID



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

Refer the document BIP Report Development Guide to create these files.

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

Proficiency	Resources
FLEXCUBE IS Development overview	Development Overview Guide
Open Development tool function ID development getting started	Getting Started
Open Development tool screen development	Function ID Development
Report development introduction	Report Getting started
BIP Report development	BIP Report Development Guide

1.2 Related documents

For more information on Reports development, see these resources:

- Development Overview Guide
- Report Getting started

1.3 Conventions

The following text conventions are used in this document:

Convention Meaning

boldface	Boldface type indicates graphical user interface elements (for example, menus and menu items, buttons, tabs, dialog controls), including options that you select.
-----------------	---

<i>italic</i>	italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates language and syntax elements, directory and File name, URLs, text that appears on the screen, or text that you enter.
	Indicates important information

2. Introduction

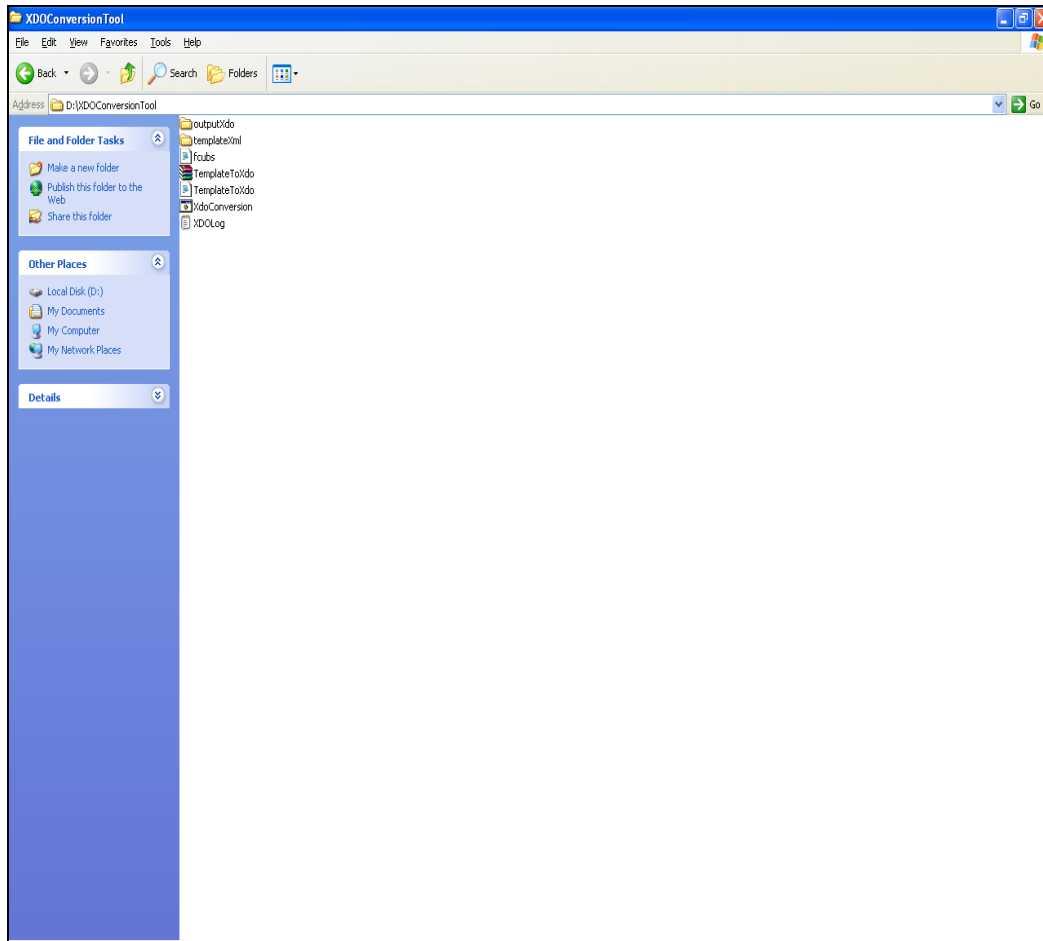
2.1 How to use this Guide

- [Chapter 2,"Introduction"](#)
- [Chapter 3,"Generation of XDO file"](#)
- [Chapter 4,"Developing Screens for Report"](#)
- [Chapter 5,"Test Report"](#)

3. Generation of XDO file

To generate the XDO file, you need XdoConversionTool. This section explains the steps to create the XDO file from the existing data template XML file

- XdoConversionTool setup look like below



- Edit Primary parameters in TemplateToXdo.properties file.

TEMPLATE_XML_PATH is the path where template xml file created is placed.

OUTPUT_PATH is where the XDO will be generated.

PRIMARY

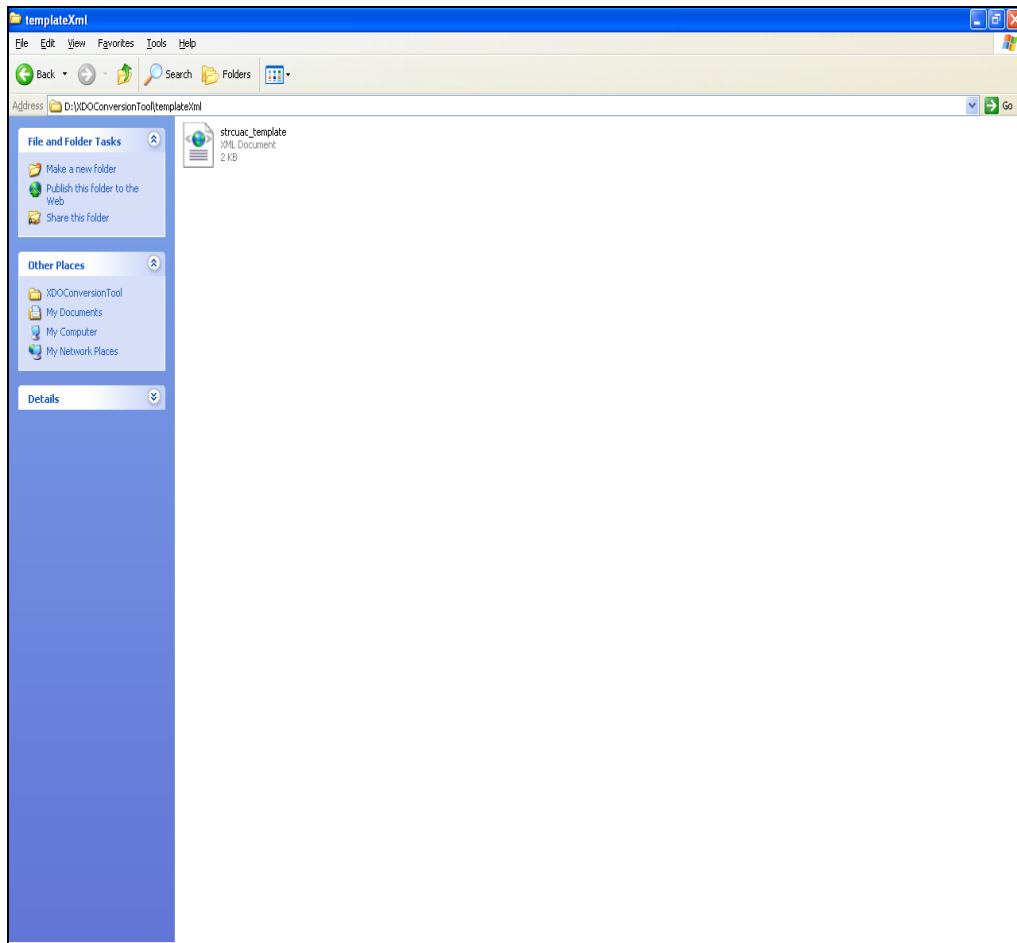
TEMPLATE_XML_PATH = D:\XdoConversionTool\templatexml

OUTPUT_PATH = D:\XdoConversionTool\xdo

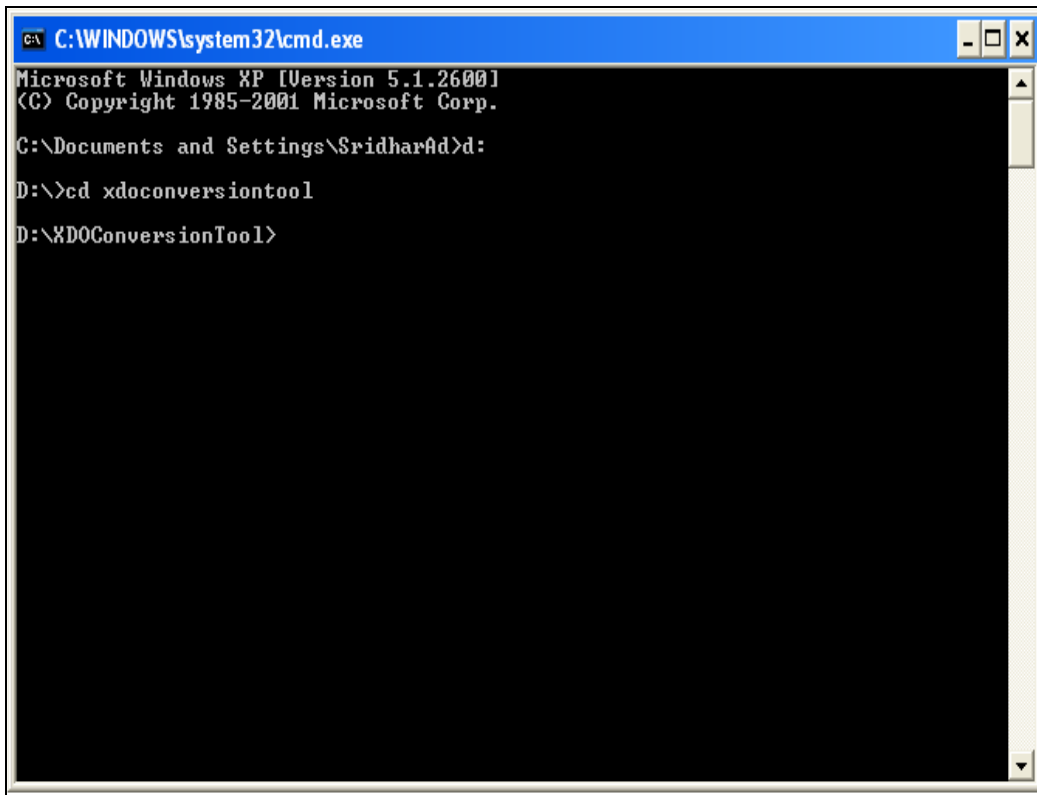
DEFAULT_DATA_SOURCE = FCI5dev

TEMPLATE_LABEL = General

- Copy your data template xml to path mention in TEMPLATE_XML_PATH.



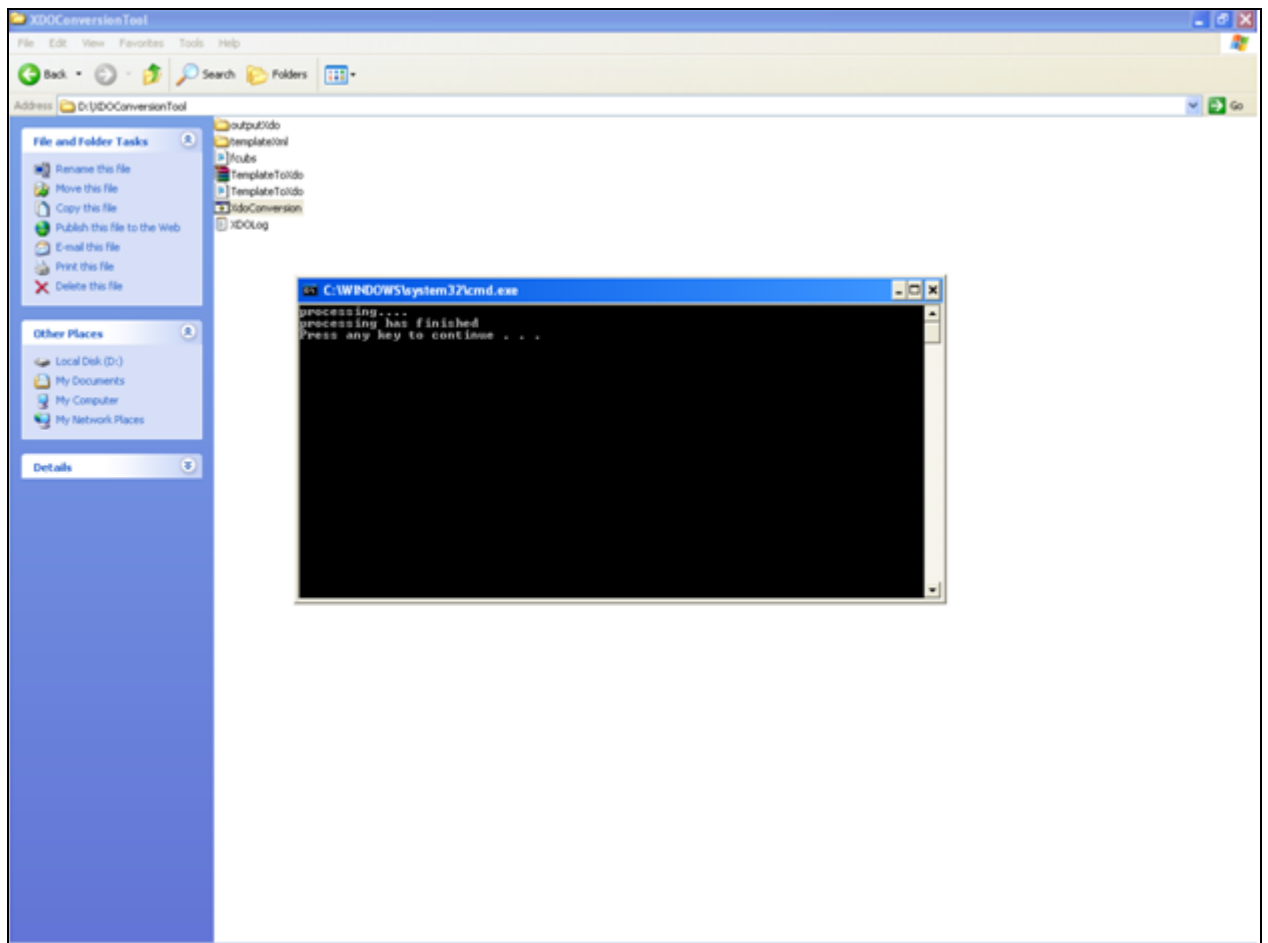
- Navigate to XDO tool conversion home directory in command prompt



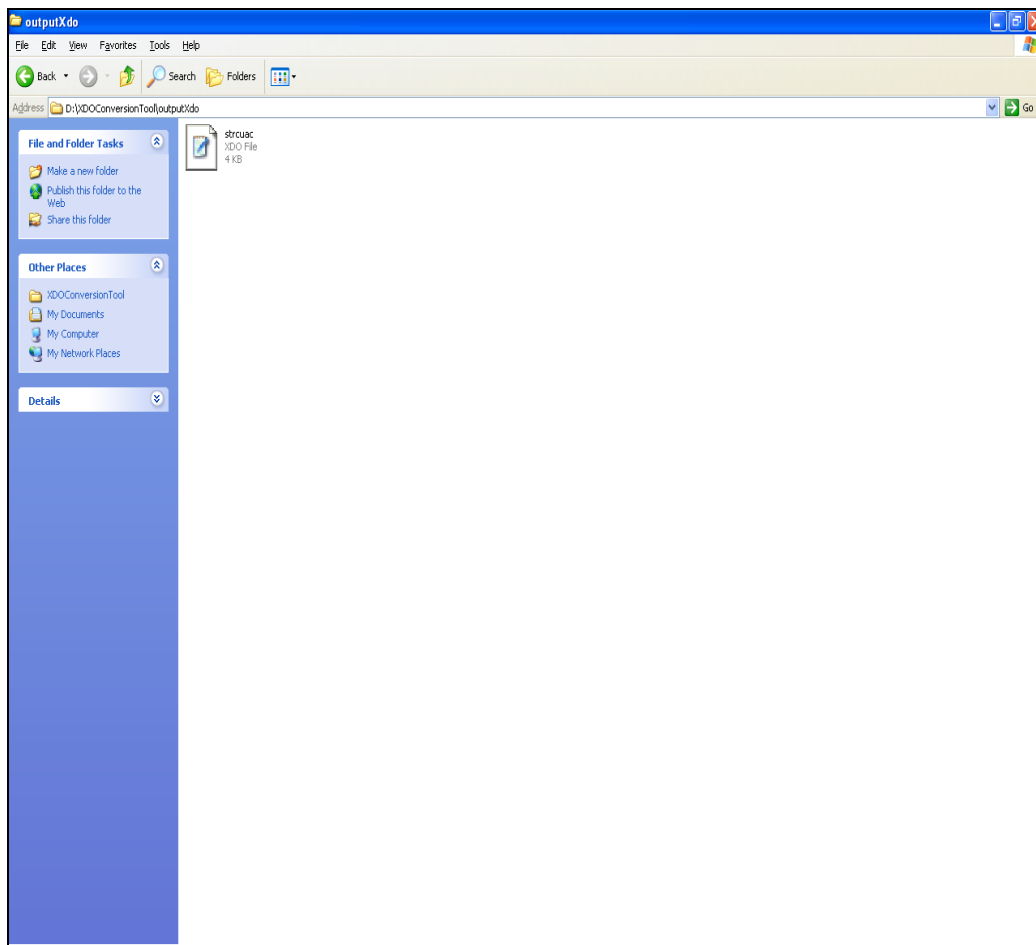
A screenshot of a Windows XP command prompt window. The title bar is blue and reads "C:\WINDOWS\system32\cmd.exe". The window contains the following text: "Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp." followed by a prompt "C:\Documents and Settings\SridharAd>d:". The user has entered "D:\>cd xdoconversiontool" and the prompt has moved to "D:\XDOConversionTool>".

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\SridharAd>d:
D:\>cd xdoconversiontool
D:\XDOConversionTool>
```

- Run XdoConversion.bat



- XDO will be created at OUTPUT_PATH



4. Developing screens for Report

This section explains the step to create the Open Development Report type function ID that integrates the given RTF and XDO file with FLEXCUBE IS screens.

4.1 Report Screens Design

- Select function category as report

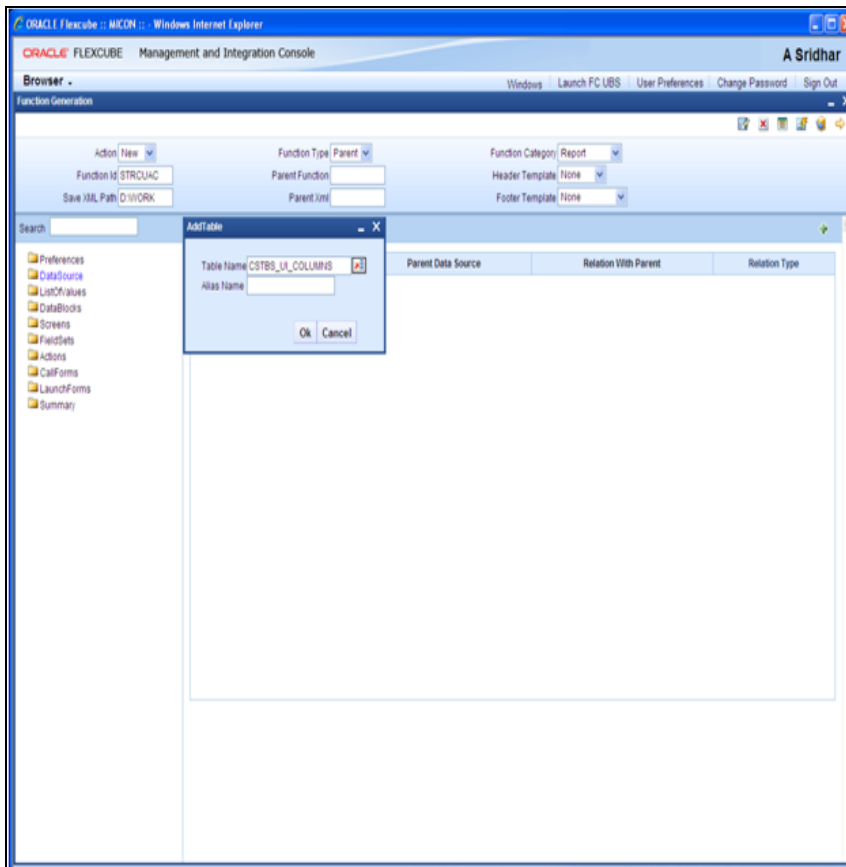
The screenshot shows the Oracle Flexcube Management and Integration Console. The main window is titled "Function Generation". The "Action" is set to "New". The "Function Type" is "Parent". The "Function Category" is "Report". The "Header Template" is "None". The "Footer Template" is "None". The "Function ID" is "STRCUAC". The "Parent Function" is empty. The "Parent XML" is empty. The "Save XML Path" is "D:\WORK".

The "Preferences" section is visible. It includes a search bar and a list of preferences: "Head Office Function", "Auto End Of Day Aware", "Logging Required", "Auto Authorization", "Tank Modifications", and "Field Log Required". The "Module" is "ST". The "Module Description" is "Static Maintenance". The "Branch Program ID" is empty. The "Process Code" is empty. The "ClearCase Folder" is empty.

The "Control String" section is visible. It includes a table with the following data:

FunctionID	Module	Module Desc
STRCUAC	ST	Static Maintenance

- Select table name as CSTBS_UI_COLUMNS



- Select master data source as 'yes' and fill PK cols and PK Types

ORACLE Flexcube :: MCON :: Windows Internet Explorer

ORACLE FLEXCUBE Management and Integration Console A Sridhar

Browser . Windows Launch FC UBS User Preferences Change Password Sign Out

Function Generation

Action: New Function ID: STRCUAC Save XML Path: D:\WORK

Function Type: Parent Parent Function: Parent XML:

Function Category: Report Header Template: None Footer Template: None

Search

Data Source Details

Data Source: CSTBS_UI_COLUMNS

Master: Yes

Relation Type: One To One

Multi Record: No

PK Cols: CHAR_FIELD1

PK Types: VARCHAR2

Parent: Relation: Where Clause: Default Order By: Type: Normal ☐ Mandatory

Preferences
Data Source
CSTBS_UI_COLUMNS
List Of Values
Data Books
Screens
Field Sets
Actions
Call Forms
Launch Forms
Summary

- Add data columns for data source

The screenshot displays the Oracle Flexcube Management and Integration Console interface. The top navigation bar includes the Oracle logo, the text 'FLEXCUBE Management and Integration Console', and the user name 'A Sridhar'. Below this is a 'Browser' menu with options: 'Windows', 'Launch FC UBS', 'User Preferences', 'Change Password', and 'Sign Out'. The main content area is titled 'Function Generation' and contains several form fields: 'Action' (set to 'New'), 'Function Type' (set to 'Parent'), 'Function Category' (set to 'Report'), 'Function Id' (set to 'STRCUAC'), 'Parent Function' (empty), 'Header Template' (set to 'None'), 'Save XML Path' (set to 'D:\WORK'), 'Parent XML' (empty), and 'Footer Template' (set to 'None'). Below these fields is a 'Search' bar and a 'Data Source Field Details' section. The 'Data Source Field Details' section has a left-hand tree view with the following items: 'Preferences', 'DataSource', 'CSTBS_UI_COLUMNS', 'CHAR_FIELD1', 'CHAR_FIELD2', 'CHAR_FIELD3', 'CHAR_FIELD4', 'CHAR_FIELD5', 'CHAR_FIELD6', 'CHAR_FIELD7', 'CHAR_FIELD8', 'ListOfValues', 'DataBlocks', 'Screens', 'FieldSets', 'Actions', 'CallForms', 'LaunchForms', and 'Summary'. The right-hand pane of the 'Data Source Field Details' section contains the following fields: 'Column Name' (set to 'CHAR_FIELD1'), 'Data Type' (set to 'VARCHAR2'), 'Max Length' (set to '1000'), 'Field Name' (empty), and 'Block Name' (empty).

- Enter query in LOV Query and click on populate

ORACLE Flexcube :: MICRON :: Windows Internet Explorer

ORACLE FLEXCUBE Management and Integration Console

A Sridhar

Browser . Windows Launch FC UBS User Preferences Change Password Sign Out

Function Generation

Action: New Function Type: Parent Function Category: Report

Function Id: STRCUAC Parent Function: Header Template: None

Save XML Path: D:\WORK Parent XML: Footer Template: None

Search: List of Values Details

LOV Name: LOV_CUSTOMER_NO

LOV Query: select cust_no from sttm_cust_account

Populate

Query Cols	DataType	Visible	Rdn Fid	Rdn Fid Type	Rdn/Col Label
☐ CUST_NO	VARCHAR2	Yes	Yes	TEXT	

Left sidebar menu:

- Preferences
- DataSource
 - CSTBS_UI_COLUMNS
 - CHAR_FIELD1
 - CHAR_FIELD2
 - CHAR_FIELD3
 - CHAR_FIELD4
 - CHAR_FIELD5
 - CHAR_FIELD6
 - CHAR_FIELD7
 - CHAR_FIELD8
- ListOfValues
 - LOV_CUSTOMER_NO
 - DataBlocks
 - Screens
 - FieldSets
 - Actions
 - CallForms
 - LaunchForms
 - Summary

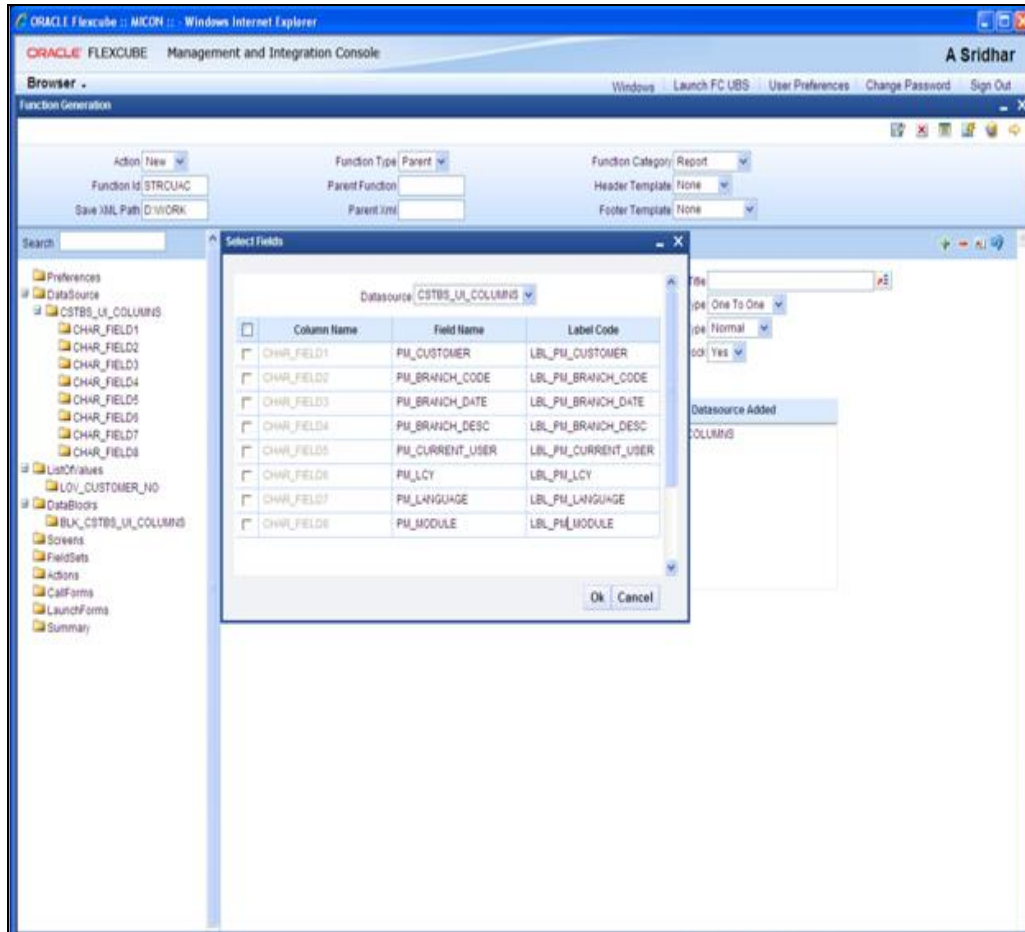
- Select master block as 'yes'

The screenshot displays the Oracle FLEXCUBE Management and Integration Console interface. The top navigation bar includes links for Windows, Launch FC UBS, User Preferences, Change Password, and Sign Out. The main content area is titled 'Function Generation' and contains a 'Block Properties' section. On the left, a tree view shows the project structure, including 'CSTBS_UI_COLUMNS' and its sub-items 'CHAR_FIELD1' through 'CHAR_FIELD8'. The 'Block Properties' section includes fields for 'Block Name' (BLK_CSTBS_UI_COLUMNS), 'Parent' (CSTBS-UI-Columns), 'Block Title' (a2), 'Relation Type' (One To One), 'Block Type' (Normal), and 'Master Block' (Yes). Below these fields are two tables: 'Datasource Available' and 'Datasource Added', both containing the entry 'CSTBS_UI_COLUMNS'.

The table *CSTB_UI_COLUMNS* is used for report screen design. Columns can be selected from this table depending on the number and data types of “parameters” required for report generation.

Typically, in report screens there are many fields and some of them are required for pre processing and some parameters should be to send to BIP server for report generation. A new attribute “Report parameter” would be added to “Block Field Attributes” screen and this can be checked only for the fields which should be sent to BIP server. The report parameter name and the Block Field name should be same so that the parameters can be sent to BIP server automatically by FCIS Infrastructure.

- Add Block fields by right clicking on block and give the field names



- Specify field properties

ORACLE Flexcube :: MICON :: Windows Internet Explorer

ORACLE FLEXCUBE Management and Integration Console

A Sridhar

Browser - Windows Launch FC UBS User Preferences Change Password Sign Out

Function Generation

Action: New Function Id: STRCUAC Save XML Path: D:\WORK

Function Type: Parent Parent Function: Parent Function Category: Report Header Template: None Footer Template: None

Search:

Block Field Properties

* Field Name: PM_CUSTOMER
Field Label: LBL_PM_CUSTOMER
XSD Tag: PM_CUSTOMER
Display Type: LOV
Item Type: Database Item
Parent Field:
Related Block:
Related Field:
Text Area Rows:
Min Val:
Max Decimals:
LOV Name: LOV_CUSTOMER_NO
Fieldset Name:

* Data Type: Number2
DataSource: CSTBS_UA_COLUMNS
Max Length: 1000
* Field Size:
* Column Name: CHAR_FIELD1
Default Value:
Preview Value:
Accesskey Code:
Text Area Col:
Max Val:
Mask Id:
Off Line LOV Name:
Image Source:

☐ Popup Edit Reqd
☒ Required
☒ Visible
☐ Input by LOV Only
☐ Calendar Text
☐ Select Multiple
☐ Uppercase Only
☒ LOV Validation Reqd
☐ Not Req In Xsd
☒ Report Parameter
☐ Read Only

Custom Attributes Events Bind Variables Return Fields

Return Fields Mapping

	Query Column	Block Name	Return Fld Name
☐	CUST_NO	BLK_CSTBS_UA_COLUMNS	PM_CUSTOMER

- Select main screen checkbox and screen size as small

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ORACLE FLEXCUBE Management and Integration Console A Sridhar

Browser - Windows Launch FC UBS User Preferences Change Password Sign Out

Function Generation

Action: New Function Type: Parent Function Category: Report
 Function Id: STRCUAC Parent Function: Header Template: None
 Save XML Path: D:\WORK Parent Xml: Footer Template: None

Search

Screen Details

Screen Name: CVS_CSTBS_UI_COLL Main Screen ☒
 Screen Title: LBL_CUSTDETAILED Visible ☒
 Screen Size: Small
 Exit Button Type: Default Or Cancel

Populate + -

	Arg Name	Source Block	Source Field	Arg Value	Target Block	Target Field
☐						

Preferences
 DataSource
 CSTBS_UI_COLUMNS
 CHAR_FIELD1
 CHAR_FIELD2
 CHAR_FIELD3
 CHAR_FIELD4
 CHAR_FIELD5
 CHAR_FIELD6
 CHAR_FIELD7
 CHAR_FIELD8
 ListOfValues
 LOV_CUSTOMER_NO
 DataBlocks
 BLK_CSTBS_UI_COLUMNS
 PM_CUSTOMER
 PM_BRANCH_CODE
 PM_BRANCH_DATE
 PM_BRANCH_DESC
 PM_CURRENT_USER
 PM_LCY
 PM_LANGUAGE
 PM_MODULE
 Screens
 CVS_CSTBS_UI_COLUMNS
 FieldSets
 Actions
 CallForms
 LaunchForms
 Summary

- Specify the partition details

ORACLE FLEXCUBE :: MICRON :: Windows Internet Explorer

ORACLE FLEXCUBE Management and Integration Console A Sridhar

Browser - Windows Launch FC UBS User Preferences Change Password Sign Out

Function Generation

Action: New Function Type: Parent Function Category: Report
 Function Id: STRCUAC Parent Function: Header Template: None
 Save XML Path: D:\WORK Parent Xml: Footer Template: None

Search Section Details

Section Name: SEC_1 Visible

Partition Details

Partition Si No	Partition Name *	Width	Sub-partitions
1	PART1	100	

Left Panel Tree:

- Preferences
- DataSource
 - CSTBS_UI_COLUMNS
 - CHAR_FIELD1
 - CHAR_FIELD2
 - CHAR_FIELD3
 - CHAR_FIELD4
 - CHAR_FIELD5
 - CHAR_FIELD6
 - CHAR_FIELD7
 - CHAR_FIELD8
- ListOfValues
 - LOV_CUSTOMER_NO
- DataBlocks
 - BLK_CSTBS_UI_COLUMNS
 - PM_CUSTOMER
 - PM_BRANCH_CODE
 - PM_BRANCH_DATE
 - PM_BRANCH_DESC
 - PM_CURRENT_USER
 - PM_LOY
 - PM_LANGUAGE
 - PM_MODULE
- Screens
 - CVS_CSTBS_UI_COLUMNS
 - HEADER
 - BODY
 - TAB_MAIN
 - SEC_1
 - FOOTER
- FieldSets
- Actions
- CalForms
- LaunchForms
- Summary

- Specify field set properties

ORACLE FLEXCUBE :: MICON :: Windows Internet Explorer

ORACLE FLEXCUBE Management and Integration Console A Sridhar

Browser - Windows Launch FC UBS User Preferences Change Password Sign Out

Function Generation

Action: New Function Type: Parent Function Category: Report

Function Id: STRCUC Parent Function: Header Template: None

Save XML Path: D:\WORK Parent Xml: Footer Template: None

Search

Fieldset Properties

Fieldset Name: FST_CSTBS_UI_COLUMNS Screen Name: CYS_CSTBS_UI_COLUMNS

Fieldset Label: URL_CUSTDETDETAILED Screen Portion: Body

Data Block: BLK_CSTBS_UI_COLUMNS Tab Name: TAB_MAIN

Multi Record: No Section Name: SEC_1

View Type: Single Partition Name: PART1

Fieldset Height: Fieldset Width:

No Of Rows:

☐ Horizontal Fieldset

☐ ReadOnly

☐ Navigation Button

☒ Visible

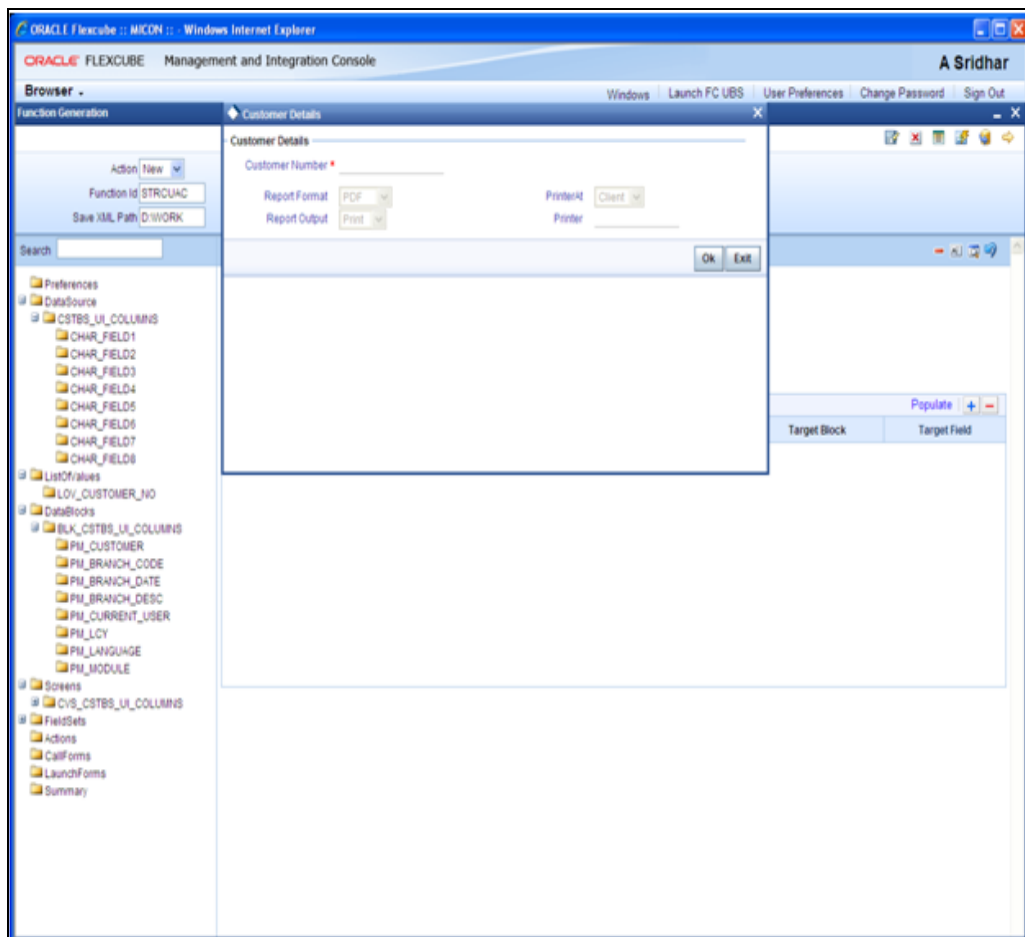
Data Block Fields

FieldSet Fields	Subpartition Name
☐ PM_CUSTOMER	
☐ PM_BRANCH_CODE	
☐ PM_BRANCH_DATE	
☐ PM_BRANCH_DESC	
☐ PM_CURRENT_USER	
☐ PM_LCY	
☐ PM_LANGUAGE	
☐ PM_MODULE	

Left Panel Tree:

- Preferences
 - Data Source
 - CSTBS_UI_COLUMNS
 - CHAR_FIELD1
 - CHAR_FIELD2
 - CHAR_FIELD3
 - CHAR_FIELD4
 - CHAR_FIELD5
 - CHAR_FIELD6
 - CHAR_FIELD7
 - CHAR_FIELD8
 - List of Values
 - LOV_CUSTOMER_NO
 - Data Blocks
 - BLK_CSTBS_UI_COLUMNS
 - PM_CUSTOMER
 - PM_BRANCH_CODE
 - PM_BRANCH_DATE
 - PM_BRANCH_DESC
 - PM_CURRENT_USER
 - PM_LCY
 - PM_LANGUAGE
 - PM_MODULE
 - Screens
 - CYS_CSTBS_UI_COLUMNS
 - HEADER
 - BODY
 - TAB_MAIN
 - SEC_1
 - FOOTER
 - FieldSets
 - FST_CSTBS_UI_COLUMNS
 - Actions
 - Call Forms
 - Launch Forms
 - Summary

- Preview the screen



- Save and Generate the files

ORACLE Flexcube :: MICRON :: Windows Internet Explorer

ORACLE FLEXCUBE Management and Integration Console A Sridhar

Browser - Windows Launch FC UBS User Preferences Change Password Sign Out

Function Generation

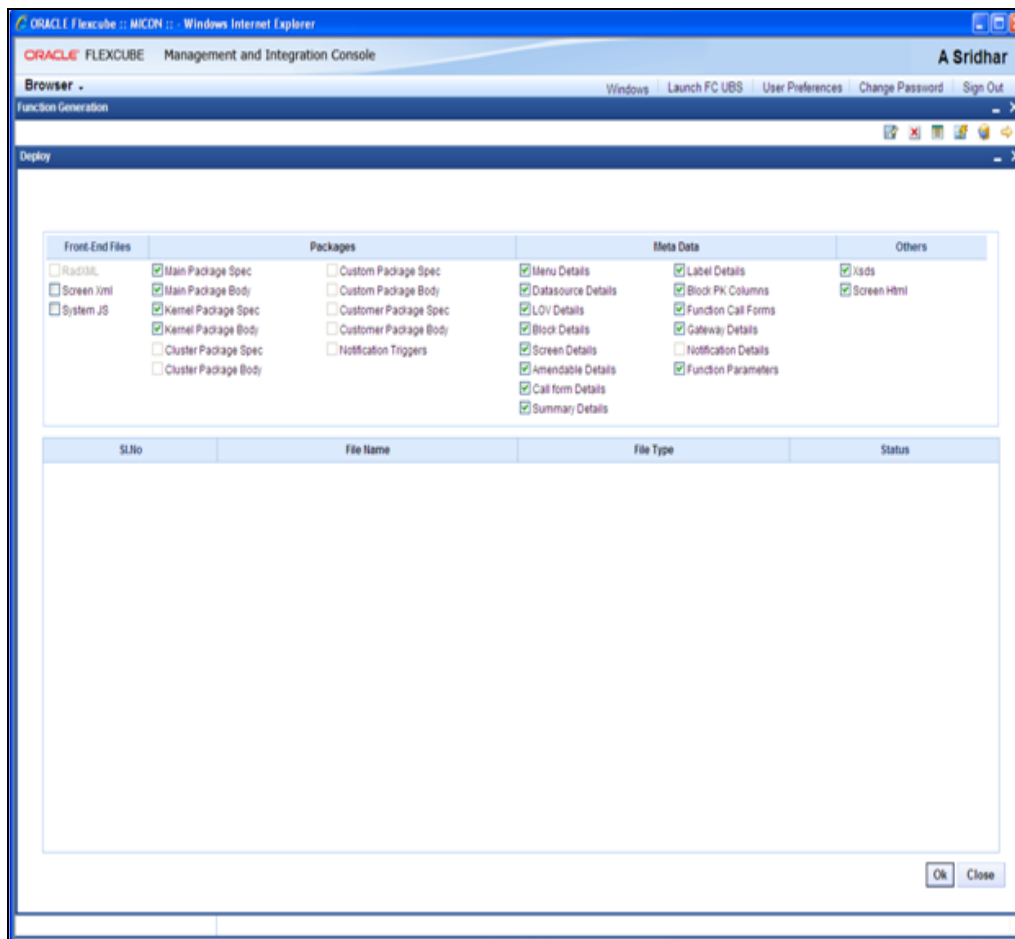
Generate

Front-End Files	Packages	Meta Data	Others
☒ RadHTML	☒ Main Package Spec	☒ Menu Details	☒ xads
☒ Screen Xml	☒ Main Package Body	☒ Datasource Details	☒ Screen Html
☒ System JS	☒ Kernel Package Spec	☒ LOV Details	
	☒ Kernel Package Body	☒ Block Details	
	☐ Cluster Package Spec	☒ Screen Details	
	☐ Cluster Package Body	☒ Amendable Details	
		☒ Call form Details	
		☒ Summary Details	
	☐ Custom Package Spec	☒ Label Details	
	☐ Custom Package Body	☒ Block PK Columns	
	☐ Customer Package Spec	☒ Function Call Forms	
	☐ Customer Package Body	☒ Gateway Details	
	☐ Notification Triggers	☐ Notification Details	
		☒ Function Parameters	

SLNo	File Name	File Type	Status
1	STRCUAC.xml	UXML	Generated
2	STRCUAC_SYS.js	JS	Generated
3	STRCUAC__CVS_CSTBS_UI_COLUMNS__TAB_HEADER.html	HTML	Generated
4	STRCUAC__CVS_CSTBS_UI_COLUMNS__TAB_MAIN.html	HTML	Generated
5	STRCUAC__CVS_CSTBS_UI_COLUMNS__TAB_FOOTER.html	HTML	Generated
6	spks_strcuac_main.spc	SPC	Generated
7	spks_strcuac_kernel.spc	SPC	Generated
8	spks_strcuac_main.sql	SQL	Generated
9	spks_strcuac_kernel.sql	SQL	Generated
10	CSTB_FIELD_LABELS__STRCUAC.INC	INC	Generated
11	CSTB_OTHER_LABELS__STRCUAC.INC	INC	Generated
12	CSTB_LOV_INFO__STRCUAC.INC	INC	Generated
13	CSTB_SUMMARY_INFO__STRCUAC.INC	INC	Generated
14	STTB_AUDIT_PK_COLS__STRCUAC.INC	INC	Generated
15	CSTB_FID_DATA_BLOCKS__STRCUAC.INC	INC	Generated
16	CSTB_FID_DATA_SOURCES__STRCUAC.INC	INC	Generated

Ok Close

- Deploy the files



- Deploy the generated UIXML and JS file in the server.

4.1.1 Static Data Change for Reports Functions

- The function ID for all reports will now have third character as 'R'
- The type string for report function ID in SMTB_MENU will be 'R'
- The routing type for report function ID in SMTB_MENU will be 'R'

4.2 Copy Files to BIP Server

- Copy XDO's and RTF files at the BIP server



BIP Server properties needs to be configured in FCIS INFRA properties file as below

```

217 NOTIFY_MDB_JMS_Q_DELIVERY_OPT      =2
218 NOTIFY_MDB_JMS_Q_TIME_TO_LIVE     =0
219 NOTIFY_MDB_JMS_Q_PRIORITY         =7
220
221 #NOTIFY_MDB_JMS_DEST_Q_ICF          =null
222 #NOTIFY_MDB_JMS_DEST_Q_PROVIDER_URL =null
223 #NOTIFY_MDB_JMS_DEST_Q_SECURITY_PRINCIPAL =null
224 #NOTIFY_MDB_JMS_DEST_Q_SECURITY_CREDENTIALS =null
225 NOTIFY_MDB_JMS_DEST_TCF             =NotifyTCF
226 NOTIFY_MDB_JMS_DEST_TOPIC_NAME      =NOTIFY_DEST_TOPIC
227
228 # properties moved from GateWay Properties ends
229
230
231 APPLICATION_TITLE                   =FLEXCUBE UBS Version 11.3.0.0.0.0.0
232 APPLICATION_COPYRIGHTS              =Copyright © 2011, Oracle and/or its affiliates. All rights reserved.
233 # FCJ: BODYLogin, FCIS: BODYFCISLogin, FGL: BODYFGLLogin
234 APPLICATION_IMAGE                   =BDYlogin
235
236
237
238 #####10.4 Changes: BIP SERVER PROPERTIES#####
239 REPORTS_ENABLED                     =Y
240 BIP_END_POINT                       =http://10.184.74.165:9704/xmlserver/services/PublicReportService_v11
241 BIP_NAME_SPACE                      =http://xmlns.oracle.com/oxp/service/PublicReportService
242 BIP_USERNAME                        =r9e04zq+l/1orG4XTbwUfw==
243 BIP_PASSWORD                        =r9e04zq+l/1orG4XTbwUfw==
244 BIP_REPORT_FOLDER                   =FCReports
245 BIP_ADVICE_FOLDER                   =FCReports/Adv/
246 BIP_ADV_SPOOL_PATH                  =/ora1nt1/appsrvs/fcubs_logs/fcubs113/BrnDbgs/ADV/
247 BRANCH_ADV_TYPE                     =NATIVE
248
249
250 #EMS PROPERTIES
251 EMS_EXT_QCF                         =EmsQcf
252 EMS_INT_QCF                         =EmsQcf
253 EMS_OUT_JMS_DLQ                     =NOTIFY_QUEUE_DLQ
254 EMS_IN_JMS_DLQ                      =NOTIFY_QUEUE_DLQ
255 EMS_IN_BKUP_QUEUE                   =
256 EMS_INIT_CTX_FACT                   =weblogic.jndi.WLInitialContextFactory
257 EMS_PRVIDR_URL                      =t3://127.0.0.1:7001
258 EMS_QUEUE_PRINCIPAL                 =
259 EMS_QUEUE_CREDENTIALS               =2fb0x66Q$ug=
260 EMS_FILE_TRANSFER_MODE              =FTP

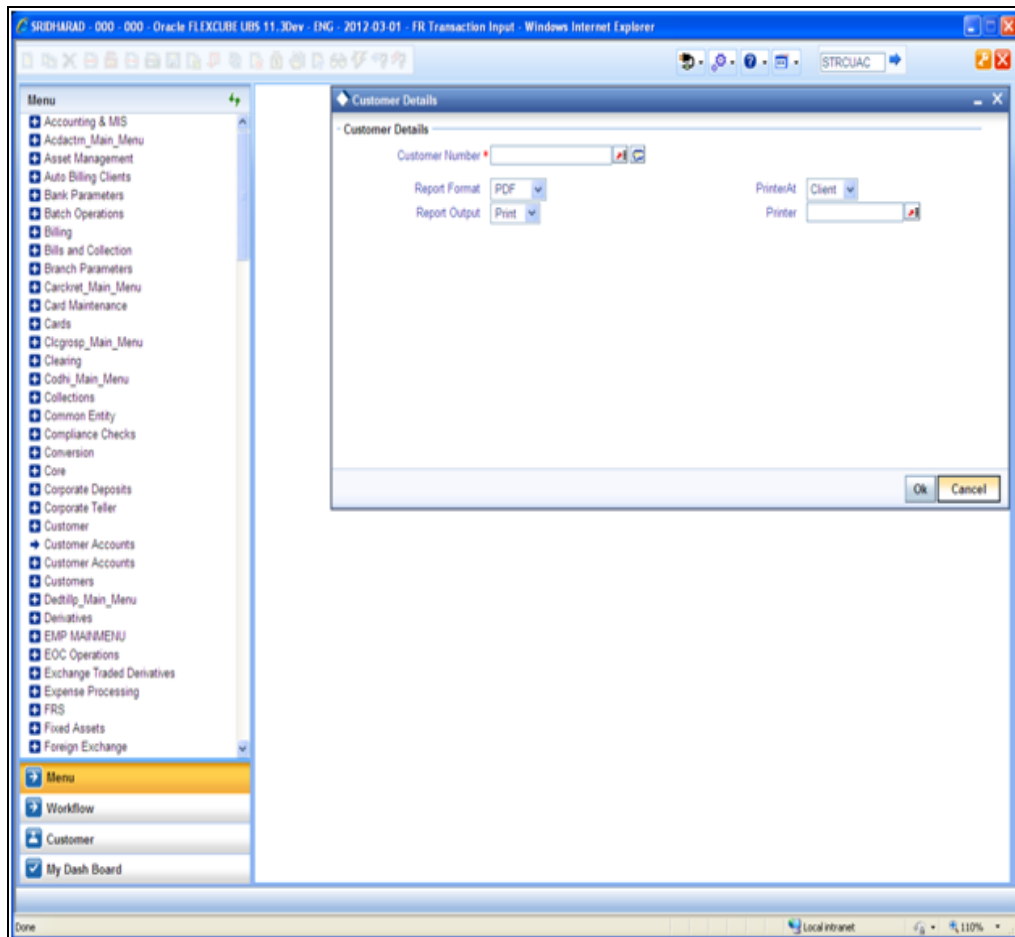
```

4.2.1 Declaration of Parameters in Spec of the Package

PM_BRANCH_CODE	VARCHAR2(3);
PM_BRANCH_DATE	VARCHAR2(11);
PM_BRANCH_DESC	VARCHAR2(35);
PM_CURRENT_USER	VARCHAR2(11);
PM_LCY	VARCHAR2(3);
PM_LANGUAGE	VARCHAR2(3);
PM_MODULE	VARCHAR2(2);
PRM_AEOD_KEY	VARCHAR2(30);
PM_SYSTIME	VARCHAR2(11);
PM_DATE_TIME	VARCHAR2(32767);
PM_CUSTOMER	VARCHAR2(20);

5. Test report

- Launch the Target FLEXCUBE URL
- Select the Report function ID that is developed

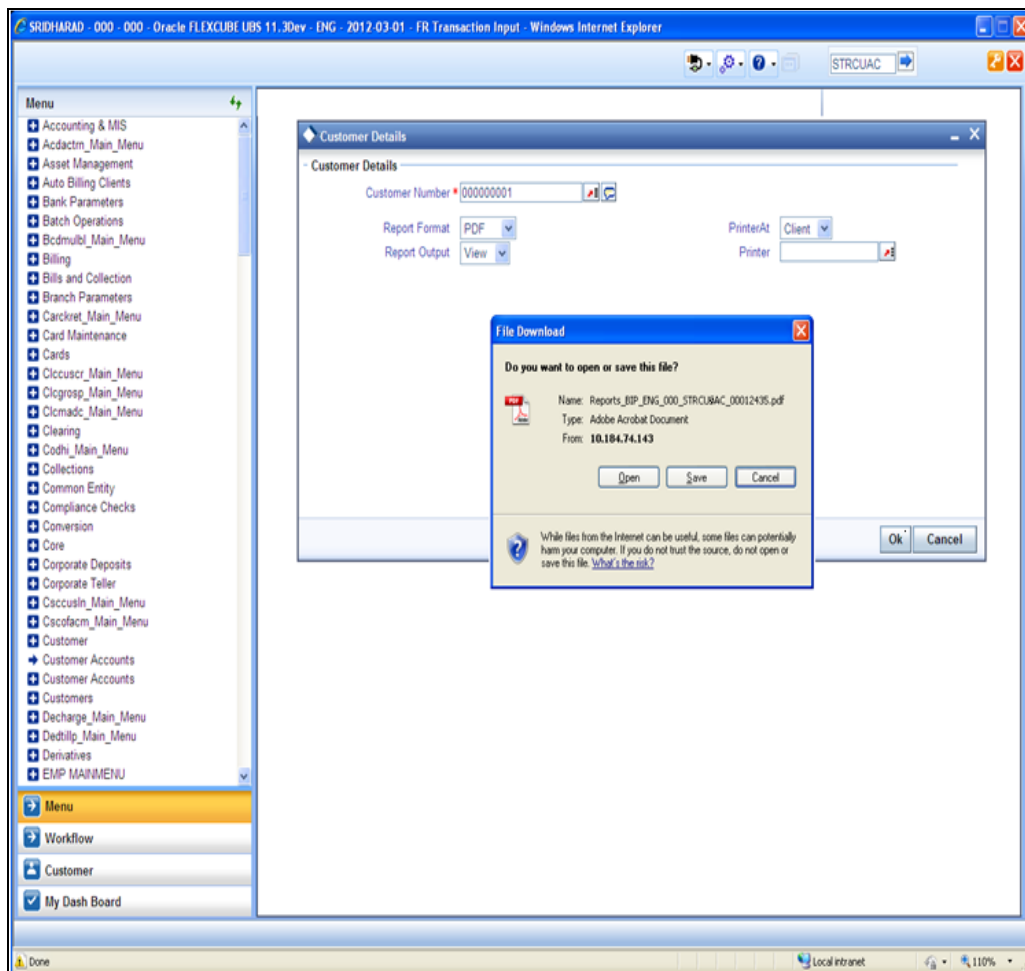


- Open Development Tool would automatically add the Report Options for all report screens

These report options are

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

The report screen after data entry would call FCIS back end for any pre processing and upon receiving successful response from pre processing, request would be sent to BIP server for report generation.



- View report

Reports_BIP_ENG_000_STRCUAC_00012436[1].pdf - Adobe Reader

File Edit View Document Tools Window Help

2 / 3 93.3%

Find

Customer Accounts

Branch	000	Branch Date	01-MAR-2012	Page	2
User Id	SRIDHARAD	Date & Time	26-APR-2011 09:25:15	Module	ST

CUST_NO	CUST_AC_NO	ACY_AVL_BAL
000000001	00000000101	0
000000001	00000000102	0
000000001	00000000103	0
000000001	00000000104	0
000000001	ACH00000103	0
000000001	00000000121	0
000000001	00000000120	0
000000001	INT00000102	0
000000001	00000000143	0
000000001	00000000154	0
000000001	066ACC0000011	0
000000001	00000000153	0
000000001	00000000173	0
000000001	00000000174	0
000000001	0661200000012	0
000000001	00000000179	-100
000000001	00000000145	0
000000001	00000000176	0
000000001	066ACC0000014	0
000000001	066ACC0000015	0
000000001	00100000122	0
000000001	03800000105	0
000000001	00000000144	-100
000000001	00000000177	0
000000001	00000000178	0
000000001	0661200000011	0
000000001	00000000118	0
000000001	00000000119	0



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[May] [2019]
Version 14.1.0.0.0

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

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Fax: +91 22 6718 3001
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