Oracle® Banking Treasury Management

Development of Call Forms

Release 14.8.1.0.0

G45883-01

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Oracle Banking Treasury Management Development of Call Forms, Release 14.8.1.0.0

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Contents

Preface

This document describes the steps to develop the notification XML and notification trigger using Oracle FLEXCUBE Development Workbench.

Purpose

This manual is designed to help FLEXCUBE Application developers/users to familiarize with ORACLE FLEXCUBE Development Workbench.

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:

Table 1 Proficiency and Resources

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
Working knowledge of Web based Applications	Self-Acquired
Working knowledge of Oracle Database	Oracle Documentations
Working knowledge of PLSQL developer	Respective vendor documents

Table 1 (Cont.) Proficiency and Resources

Proficiency	Resources
Working knowledge of PLSQL and SQL Language	Self-Acquired
Working knowledge of XML files	Self-Acquired

Documentation Accessibility

Critical Patches

Diversity and Inclusion

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Prerequisite

Specify **User ID** and **Password**, and log in to **Home Screen**.

Related Resources

The functions of ORACLE FLEXCUBE Development Workbench for Investor Servicing system is organized into various guides, each discussing a component.

For more information, see these Open Development Tool documents:

- *Open Development Tool Installation*
- *Development Workbench - Getting Started*
- *Development Workbench - Administration*
- *Development Workbench - Screen Development I*
- *Development Workbench - Screen Development II*
- *Development Workbench - Screen Customizer*
- *Development Workbench - Notifications*
- *Development Workbench - Bulk Generation*
- *Development Workbench - Source Upgrade*
- *Development Workbench - Tracking Changes*
- *Child and Screen Childs - Concept and Design*
- *Development of Maintenance Form*
- *Development of Call Form*
- *Development of Launch Forms and Other Screens*
- *Development of Dashboard Form*
- *Development Workbench Service XML Development*
- *Development Workbench Performance Tuning Enhancements*
- *Development Workbench - Rest Services Development*

1

Overview of Call Form

This topic provides an overview on Call Form.

Call Forms are function Id’s (screens) which can be used for processing of a feature which is common across multiple function Ids. Call Forms can be attached to the main function Id for processing the common functionality. Call form screens cannot be launched independently.

Example: Tax Processing for a Contract

Tax Processing depends on common tax rules attached for the product/contract. Same processing can be used for various contract screens like Funds Transfer Input Screen, Letters Of Credit etc. Thus a common function id can be developed which can be attached to all the contract screens requiring tax processing.

On launching the call form screen from the main screen, the values will be picked up based on the data input in main screen. User will have the option to change the data in call form screen if desires so.

There are two types of Call forms they are:

1. Maintenance Call Forms
2. Transaction Call Forms

Maintenance Call forms can be attached to only maintenance function id’s while transaction call forms can be attached to transaction screens only.

2
Screen Development

This topic describes about the development of screen.

Design and development of a Call Form function id is similar to any other function Ids. This topic briefs the steps in designing a Call Form screen.

Refer to the topic *Development Workbench - Screen Development I* for detailed explanation on this.

This topic contains the following sub-topics:

- Header Information
  This topic describes about defining the header information for Call Forms.
- Preferences
  This topic describes about defining the preferences for Call Forms.
- Data Sources
  This topic describes about defining the data sources for Call Forms.
- Data Blocks
  This topic describes about defining the data blocks for Call Forms.
- Screens
  This topic describes about designing the screens for Call Forms.
- Field Sets
  This topic describes about defining the field sets for Call Forms.
- Actions
  This topic describes about the actions screen for Call Forms.
- Launch Forms
  This topic describes about the launch forms.
- Call Forms
  This topic describes about the launch forms.
- Summary
  This topic describes about the summary.
- Preview
  This topic describes about the preview.

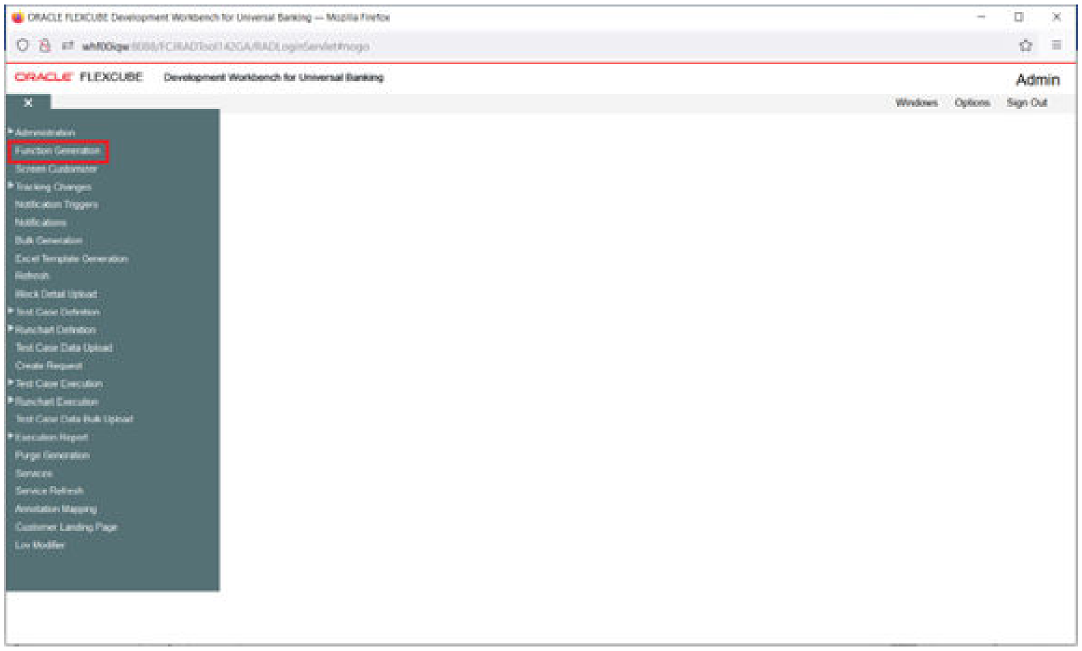
2.1 Header Information

This topic describes about defining the header information for Call Forms.

1. On **Expand Menu** of the Development Workbench for Universal Banking, click **Function Generation** node.

   The **Function Generation** screen displays.

Figure 2-1 Function Generation



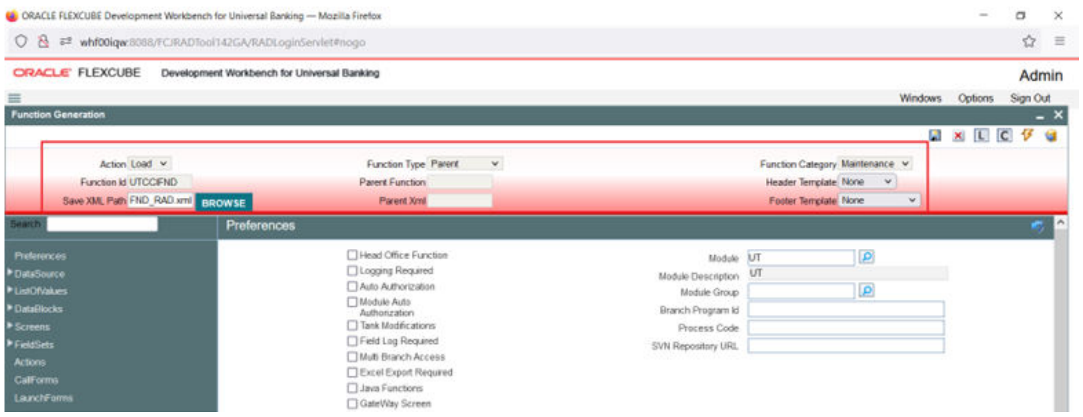
2. On the **Function Generation** screen, specify the following fields in the **Header** section for **CallForms**.

   For more information on fields, refer to the field description table.

Table 2-1 Function Generation - Field Description

Field	Description
Function ID	It is the name of the Call Form. Call Form name has to have the third character as **C**. This is how system differentiates a call form from other screens. Ideally, the length of the name should be 8 characters. Example: UTCCIFND, UTCAPPUH etc. are valid call form names.
Function Category	It is the Call Form Category. It has to be either **Maintenance** or **Transaction** depending on the functionality and the screens from which it will be invoked.
Footer Template	Select the footer template from the drop-down list. • **None** • **Maint Audit** • **Maint Process** • **Process** Footer template can be provided as required. Note for **Transaction** screens, footer template has to be selected as **None** unless it is a process screen.
Function Type	Parent and child functionality is supported for call forms.

Figure 2-2 Call Form header Information


ORACLE FLEXCUBE Development Workbench for Universal Banking — Mozilla Firefox

whf00iqw:8088/FCJRADTool142GA/RADLoginServlet#nogo

ORACLE FLEXCUBE Development Workbench for Universal Banking Admin

Windows Options Sign Out

Function Generation

Action	Load	Function Type	Parent	Function Category	Maintenance
Function Id	UTCCIFND	Parent Function		Header Template	None
Save XML Path	FND_RAD.xml BROWSE	Parent Xml		Footer Template	None

Search

Preferences

Preferences, DataSource, ListOfValues, DataBlocks, Screens, FieldSets, Actions, CallForms, LaunchForms

- [ ] Head Office Function
- [ ] Logging Required
- [ ] Auto Authorization
- [ ] Module Auto Authorization
- [ ] Tank Modifications
- [ ] Field Log Required
- [ ] Multi Branch Access
- [ ] Excel Export Required
- [ ] Java Functions
- [ ] GateWay Screen

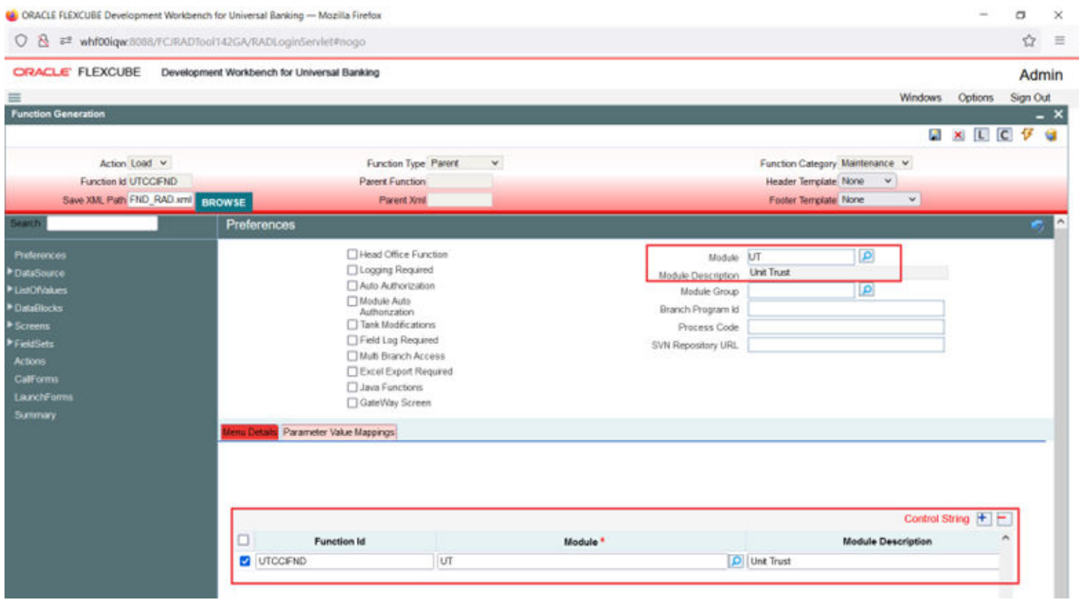
Module	UT
Module Description	UT
Module Group	
Branch Program Id	
Process Code	
SVN Repository URL	

2.2 Preferences

This topic describes about defining the preferences for Call Forms.

1. Specify the menu details in the **Preferences** screen.

Figure 2-3 Call Form Preferences


ORACLE FLEXCUBE Development Workbench for Universal Banking — Mozilla Firefox

whf00iqw:8088/FCJRADTool142GA/RADLoginServlet#nogo

ORACLE FLEXCUBE Development Workbench for Universal Banking Admin

Windows Options Sign Out

Function Generation

Action	Load	Function Type	Parent	Function Category	Maintenance
Function Id	UTCCIFND	Parent Function		Header Template	None
Save XML Path	FND_RAD.xml BROWSE	Parent Xml		Footer Template	None

Search

Preferences

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
- [ ] Multi Branch Access
- [ ] Excel Export Required
- [ ] Java Functions
- [ ] GateWay Screen

Module	UT
Module Description	Unit Trust
Module Group	
Branch Program Id	
Process Code	
SVN Repository URL	

Menu Details | Parameter Value Mappings

Control String

	Function Id	Module *	Module Description
✓	UTCCIFND	UT	Unit Trust

2. On the **Preferences** screen, specify the following fields in the **Header** section for **CallForms**.

   For more information on fields, refer to the field description table.

Table 2-2 Preferences - Field Description

Field	Description
Module	Module name is a mandatory field and has to be provided. It is recommended that the first two letters of the function id is kept as same as the module name. Naming of the generated package will be derived from the module code maintained.

Of the menu details inc generated, only script for SMTB_MENU and SMTB_FCC_FCJ_MAPPING is required for Call Forms.

3. **Browser menu options**: Call Forms cannot be launched independently .Hence browser menu labels need not be maintained. Script for smtb_function_description is not required for call forms.

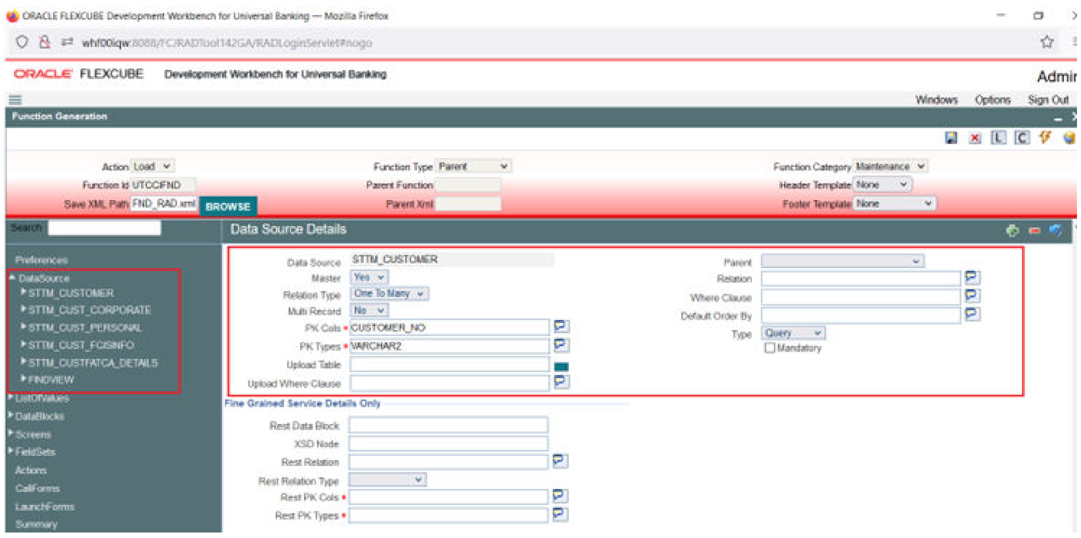
2.3 Data Sources

This topic describes about defining the data sources for Call Forms.

1. Identify the tables/views for the call form. Define Data Sources and add data source fields as required in the **Data Source Details** screen.

   Master Data Source has to be a single entry data source.

Figure 2-4 Adding data sources and maintaining properties



Action: Load
Function Id: UTCCIFND
Save XML Path: FND_RAD.xml
Function Type: Parent
Parent Function:
Parent Xml:
Function Category: Maintenance
Header Template: None
Footer Template: None

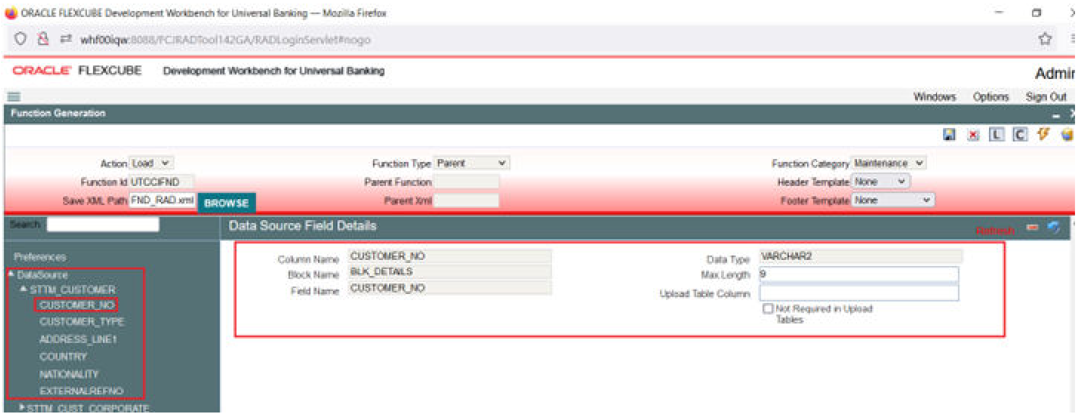
Data Source: STTM_CUSTOMER
Master: Yes
Relation Type: One To Many
Multi Record: No
PK Cols *: CUSTOMER_NO
PK Types *: VARCHAR2
Upload Table:
Upload Where Clause:
Parent:
Relation:
Where Clause:
Default Order By:
Type: Query
☐ Mandatory

Rest Data Block:
XSD Node:
Rest Relation:
Rest Relation Type:
Rest PK Cols *:
Rest PK Types *:

2. Maintain Logical Relationships for all data sources except the **Parent**.
3. Provide **PK Cols** and **PK Types** for all data sources.

> ⓘ **Note**
>
> If data source is a **Multi Record** block, then make sure it has at least one more pk than its parent which helps to uniquely identify each record of multi record block. Max length of the data source field can be modified as per requirement.

Figure 2-5   Adding data sources fields and its properties



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whf00iqw:8088/FCJRADTool142GA/RADLoginServlet#nogo

Function Generation

Action: Load
Function Id: UTCCIFND
Save XML Path: FND_RAD.xml
Function Type: Parent
Parent Function:
Parent Xml:
Function Category: Maintenance
Header Template: None
Footer Template: None

Data Source Field Details

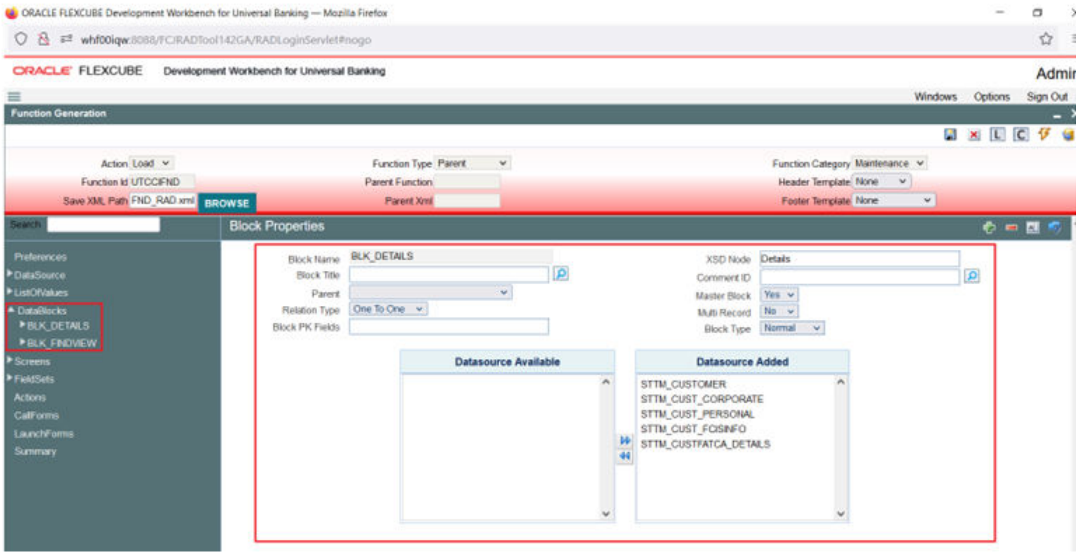
Column Name: CUSTOMER_NO
Block Name: BLK_DETAILS
Field Name: CUSTOMER_NO
Data Type: VARCHAR2
Max Length: 9
Upload Table Column:
☐ Not Required in Upload Tables

2.4 Data Blocks

This topic describes about defining the data blocks for Call Forms.

1. Determine the block structure for the function id .Define Data Blocks as per the design in the **Block Properties** screen.

Figure 2-6   Defining Data Blocks and maintaining its properties



ORACLE FLEXCUBE Development Workbench for Universal Banking — Mozilla Firefox
whf00iqw:8088/FCJRADTool142GA/RADLoginServlet#nogo

Function Generation

Action: Load
Function Id: UTCCIFND
Save XML Path: FND_RAD.xml
Function Type: Parent
Parent Function:
Parent Xml:
Function Category: Maintenance
Header Template: None
Footer Template: None

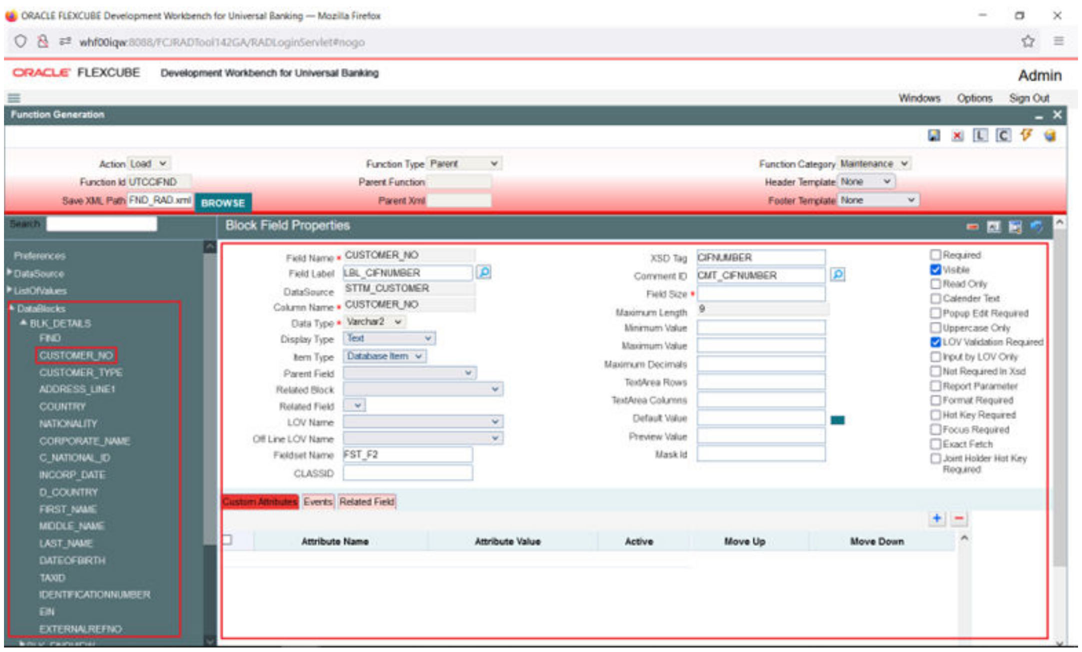
Block Properties

Block Name: BLK_DETAILS
Block Title:
Parent:
Relation Type: One To One
Block PK Fields:
XSD Node: Details
Comment ID:
Master Block: Yes
Multi Record: No
Block Type: Normal

Datasource Available	Datasource Added
	STTM_CUSTOMER
	STTM_CUST_CORPORATE
	STTM_CUST_PERSONAL
	STTM_CUST_FCISINFO
	STTM_CUSTFATCA_DETAILS

2. Master Data Block has to be a single entry data block.
3. Logical Relationships with the parent has to be maintained for all data blocks.
4. Provide **XSD Node** name if the block is normal and is required in gateway request.

Figure 2-7 Attaching Block Fields and maintaining its properties



Action: Load
Function Id: UTCCIFND
Save XML Path: FND_RAD.xml
Function Type: Parent
Parent Function:
Parent Xml:
Function Category: Maintenance
Header Template: None
Footer Template: None

Field Name *: CUSTOMER_NO
Field Label: LBL_CIFNUMBER
DataSource: STTM_CUSTOMER
Column Name *: CUSTOMER_NO
Data Type *: Varchar2
Display Type: Text
Item Type: Database Item
Parent Field:
Related Block:
Related Field:
LOV Name:
Off Line LOV Name:
Fieldset Name: FST_F2
CLASSID:

XSD Tag: CIFNUMBER
Comment ID: CMT_CIFNUMBER
Field Size *:
Maximum Length: 9
Minimum Value:
Maximum Value:
Maximum Decimals:
TextArea Rows:
TextArea Columns:
Default Value:
Preview Value:
Mask Id:

☐ Required
☑ Visible
☐ Read Only
☐ Calender Text
☐ Popup Edit Required
☐ Uppercase Only
☑ LOV Validation Required
☐ Input by LOV Only
☐ Not Required In Xsd
☐ Report Parameter
☐ Format Required
☐ Hot Key Required
☐ Focus Required
☐ Exact Fetch
☐ Joint Holder Hot Key Required

	Attribute Name	Attribute Value	Active	Move Up	Move Down

5. In case the block is not required in XSD, select the **Not Required in XSD** checkbox.
6. Ensure that **Related Block** and **Related Field** are given for Amount Fields.
7. Minimize the use of query data sources by using DESC fields wherever possible.

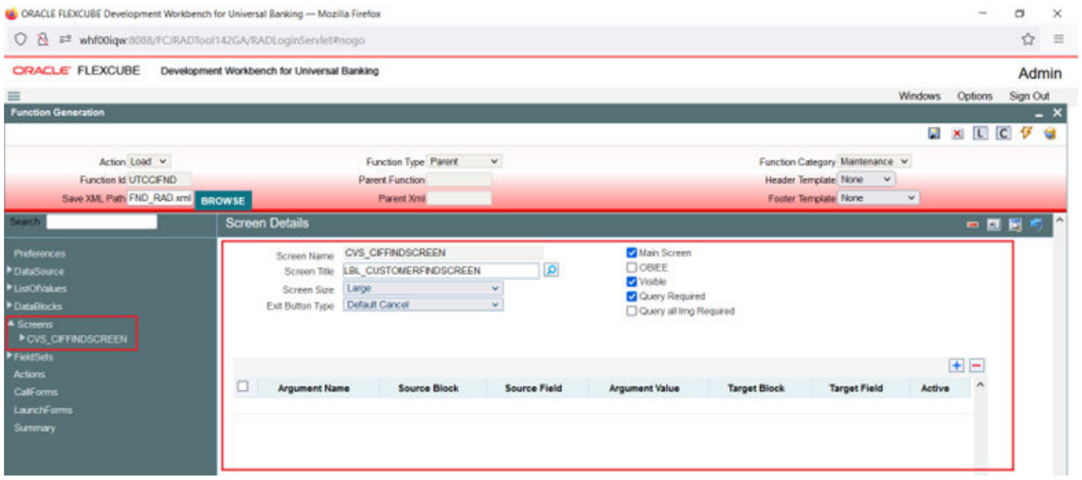
> **Note**
>
> Query data sources is rarely required for a Call Form screen; as launch form can be used for query only screens.

2.5 Screens

This topic describes about designing the screens for Call Forms.

1. Design the screen layout based on the requirement in the **Screen Details**.

Figure 2-8   Designing Screens and providing Screen Properties



Action: Load
Function Id: UTCCIFND
Save XML Path: FND_RAD.xml
Function Type: Parent
Parent Function:
Parent Xml:
Function Category: Maintenance
Header Template: None
Footer Template: None

Screen Name: CVS_CIFFINDSCREEN
Screen Title: LBL_CUSTOMERFINDSCREEN
Screen Size: Large
Exit Button Type: Default Cancel
☑ Main Screen
☐ OBIEE
☑ Visible
☑ Query Required
☐ Query all Img Required

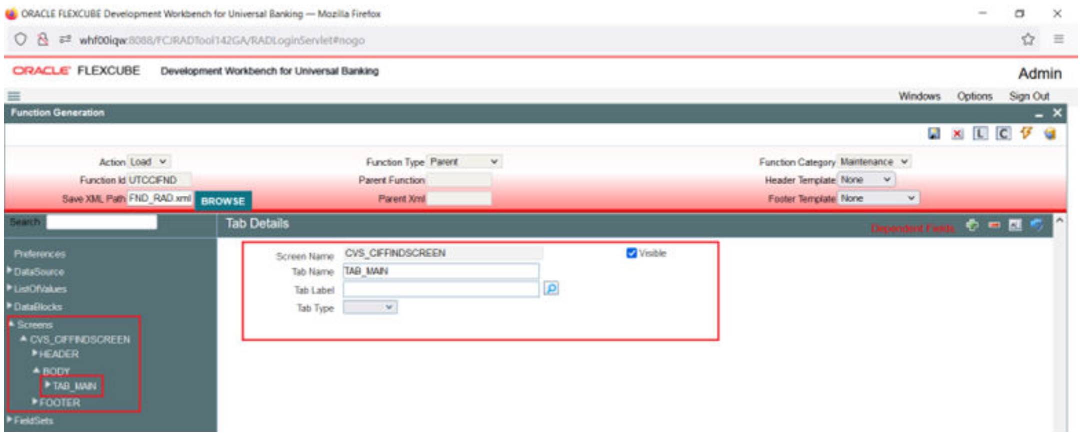
	Argument Name	Source Block	Source Field	Argument Value	Target Block	Target Field	Active

2. Identify one screen as the main screen; if multiple screens are present.
3. In the function id ,where the call form is called is for the button (which launches call form) events, mention the main screen of the call form.
4. Provide **Screen Arguments** for the main screen.

   Any field which has to be populated based on the data from the calling Function id can be provided as the target block and target field.

   Normally values for the pk fields of the master data source can be retrieved from the screen arguments. Relationship between the calling function id and the call form will also be based on the pk columns of master data source.
5. Add Tabs, sections and partitions as per the screen design.

Figure 2-9   Creating Tabs and maintaining Properties



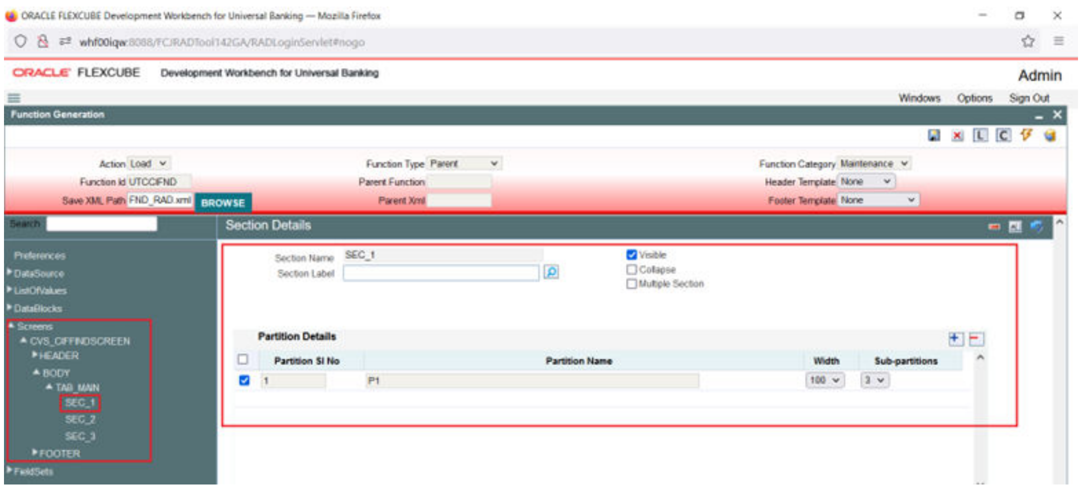
Action: Load
Function Id: UTCCIFND
Save XML Path: FND_RAD.xml
Function Type: Parent
Parent Function:
Parent Xml:
Function Category: Maintenance
Header Template: None
Footer Template: None

Screen Name: CVS_CIFFINDSCREEN
Tab Name: TAB_MAIN
Tab Label:
Tab Type:
☑ Visible

6. If the screen does not have multiple tabs, then only the TAB_MAIN needs to be used. TAB_HEADER should not contain any sections in this scenario.

   Multiple Screens can be designed if required.

Figure 2-10   Section Properties



Action: Load
Function Id: UTCCIFND
Save XML Path: FND_RAD.xml
Function Type: Parent
Parent Function:
Parent Xml:
Function Category: Maintenance
Header Template: None
Footer Template: None

Section Name: SEC_1
Section Label:
[✓] Visible
[ ] Collapse
[ ] Multiple Section

Partition Details

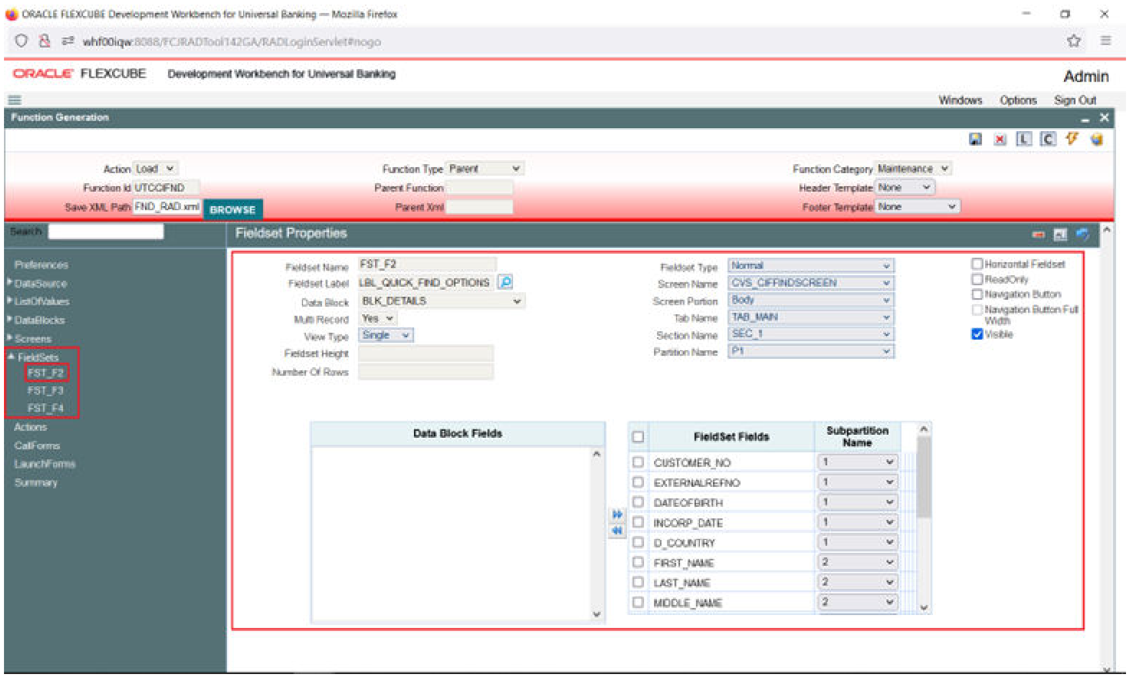
	Partition Sl No	Partition Name	Width	Sub-partitions
✓	1	P1	100	3

2.6 Field Sets

This topic describes about defining the field sets for Call Forms.

In the **Fieldset Properties** screen, create field sets and attach the fields to the field sets as required.

Figure 2-11   Field Set Properties



Action: Load
Function Id: UTCCIFND
Save XML Path: FND_RAD.xml
Function Type: Parent
Parent Function:
Parent Xml:
Function Category: Maintenance
Header Template: None
Footer Template: None

Fieldset Name: FST_F2
Fieldset Label: LBL_QUICK_FIND_OPTIONS
Data Block: BLK_DETAILS
Multi Record: Yes
View Type: Single
Fieldset Height:
Number Of Rows:
Fieldset Type: Normal
Screen Name: CVS_CIFFINDSCREEN
Screen Portion: Body
Tab Name: TAB_MAIN
Section Name: SEC_1
Partition Name: P1
[ ] Horizontal Fieldset
[ ] ReadOnly
[ ] Navigation Button
[ ] Navigation Button Full Width
[✓] Visible

Data Block Fields

	FieldSet Fields	Subpartition Name
☐	CUSTOMER_NO	1
☐	EXTERNALREFNO	1
☐	DATEOFBIRTH	1
☐	INCORP_DATE	1
☐	D_COUNTRY	1
☐	FIRST_NAME	2
☐	LAST_NAME	2
☐	MIDDLE_NAME	2

Note the following when attaching field to a field set:

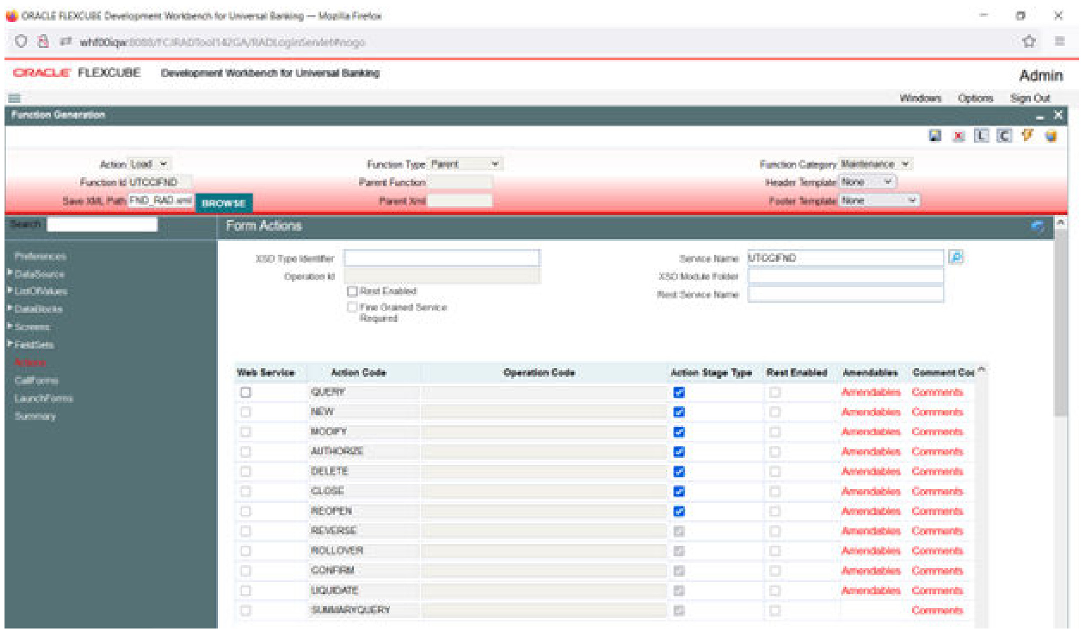
If a field vaelue is passed as screen argument ,but is not required to be shown in the screen, The field has to be made invisible and attached to a field set. If it is not attached to any fields set, the screen html won't contain the field and may result in script error while loading.

2.7 Actions

This topic describes about the actions screen for Call Forms.

1. Mention the web service and amendable information in the **Form Actions** Screen.

Figure 2-12 Actions Screen



Function Generation

Action	Load	Function Type	Parent	Function Category	Maintenance
Function Id	UTCCIFND	Parent Function		Header Template	None
Save XML Path	FND_RAD.xml	Parent Xml		Footer Template	None

Form Actions

XSD Type Identifier		Service Name	UTCCIFND
Operation Id		XSD Module Folder	
Rest Enabled	☐	Rest Service Name	
Fine Grained Service Required	☐		

Web Service	Action Code	Operation Code	Action Stage Type	Rest Enabled	Amendables	Comment Coc
☐	QUERY		✓	☐	Amendables	Comments
☐	NEW		✓	☐	Amendables	Comments
☐	MODIFY		✓	☐	Amendables	Comments
☐	AUTHORIZE		✓	☐	Amendables	Comments
☐	DELETE		✓	☐	Amendables	Comments
☐	CLOSE		✓	☐	Amendables	Comments
☐	REOPEN		✓	☐	Amendables	Comments
☐	REVERSE		☐	☐	Amendables	Comments
☐	ROLLOVER		☐	☐	Amendables	Comments
☐	CONFIRM		☐	☐	Amendables	Comments
☐	LIQUIDATE		☐	☐	Amendables	Comments
☐	SUMMARYQUERY		☐	☐		Comments

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ORACLE FLEXCUBE Development Workbench for Universal Banking
Admin
Windows
Options
Sign Out
BROWSE
Search
Preferences
DataSource
ListOfValues
DataBlocks
Screens
FieldSets
Actions
CallForms
LaunchForms
Summary

2. Call forms will generate only Type XSD. Operation specific message xsd's will not be generated. Call form Type will be part of the main function Id xsd; hence separate message xsd is not required for call form **Subsys** will be added to the name of call form type xsd.

   Example: The example given in the figure, name of the xsd generated will be SubSysTxnChgDtls-Types.xsd.

3. You need not to maintain **Operation Id** and **Operation Code** for the above mentioned reason.

4. Maintain amendable information similar to any other function id's.

2.8 Launch Forms

This topic describes about the launch forms.

Launch Forms can be attached to a Call form screen. Though it is technically supported, practical scenarios where launch form is part of a call form is very rare. Process to attach launch forms is similar to any other function Id's.

2.9 Call Forms

This topic describes about the launch forms.

Call forms can themselves be attached to a call form. This scenario also is practically very rarely used. Processing logic (sub system pickup) for the attached cal forms has to be called from the main call form.

2.10 Summary

This topic describes about the summary.

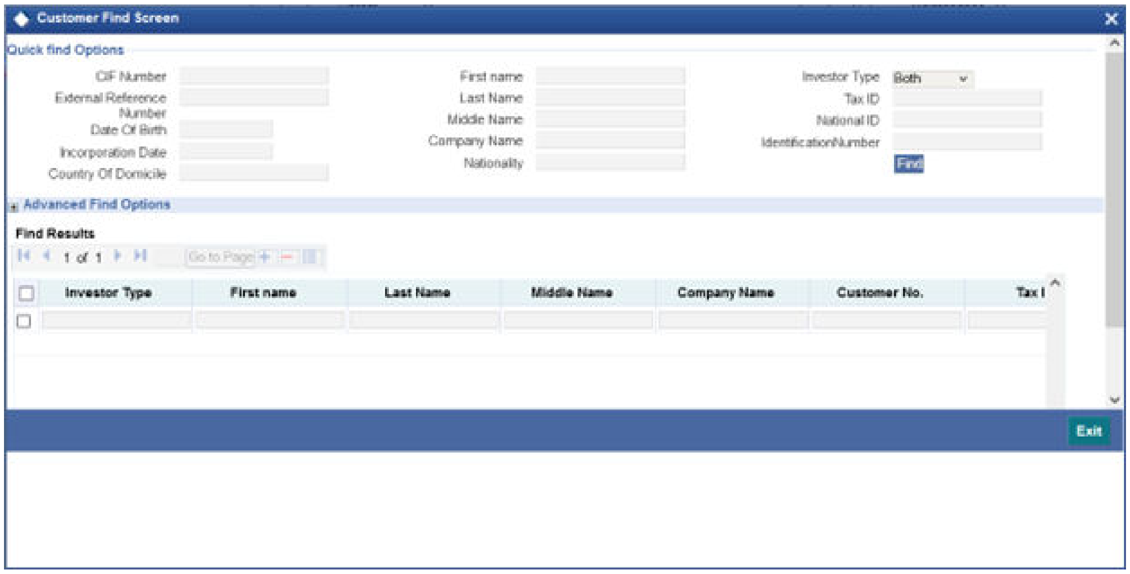
Summary screens are not required for Call Form screens. Since a Call Form screen cannot be launched independently in FLEXCUBE, it doesn't require a summary screen

2.11 Preview

This topic describes about the preview.

The figure shows the preview of the call form screen developed.

Figure 2-13 Call Form Screen Preview



Customer Find Screen

Quick find Options

CIF Number		First name		Investor Type	Both
External Reference Number		Last Name		Tax ID	
Date Of Birth		Middle Name		National ID	
Incorporation Date		Company Name		IdentificationNumber	
Country Of Domicile		Nationality			Find

Advanced Find Options

Find Results

1 of 1 Go to Page

	Investor Type	First name	Last Name	Middle Name	Company Name	Customer No.	Tax I
☐							

Exit

Generate the units for call form and deploy them in the FLEXCUBE server for unit testing.

3 Attach Call Form to Main Function Id

This topic describes about the attach call form to main Function Id.

Call Forms cannot be launched independently. It has to be called from a main function id. Refer Call Forms section in Oracle FLEXCUBE Enterprise Limits and Collateral Management ODT Screen Development for detailed explanation

Note

Scripts for CSTB_CALL_FORM_NODES and SMTB_MENU tables generated by Call Form screen has to be deployed in FLEXCUBE schema before attaching Call form to the main function Id.

4
Generated Units

This topic describes about the generated units.

The following units will be generated for a call form screen.

- Front End Units
  This topic describes about the front end units.
- Data Base Units
  This topic describes about the data base units.
- Other Units
  This topic describes about the other units used in the module.

4.1 Front End Units

This topic describes about the front end units.

This topic consists of sub-topics;

- Language xml
  This topic describes about the language xml.
- SYS JavaScript File
  This topic describes about the SYS javaScript file.
- Release Type Specific JavaScript File
  This topic describes about the release type specific javascript file.

4.1.1 Language xml

This topic describes about the language xml.

This file is an XML markup of presentation details, for the designed Call Form specific to a language.

4.1.2 SYS JavaScript File

This topic describes about the SYS javaScript file.

This JavaScript file mainly contains a list of declared variables required for the functioning of the screen

4.1.3 Release Type Specific JavaScript File

This topic describes about the release type specific javascript file.

This file won’t be generated by the Tool. It has to be manually written by the developer if he has to write any code specific in that release.

4.2 Data Base Units

This topic describes about the data base units.

This topic consists of sub-topics:

- Static Scripts
  This topic describes about the static scripts.
- System Packages
  This topic describes about the system packages.
- Hook Packages
  This topic describes about the hook packages.

4.2.1 Static Scripts

This topic describes about the static scripts.

The following static scripts generated are required for the proper functioning of a Call Form screen. Refer document on generated units for detailed explanation.

- Menu Details:
  Scripts for SMTB_MENU and SMTB_FCC_FCJ_MAPPING are required for the functioning of Call Form screen.
- Call Form details:
  Script for CSTB_CALL_FORM_NODES is required for attaching the call forms to the main function id. This has to be compiled in the schema before attaching the Call form to the main function Id.
- Lov Details
- Amendable Details
- Label details
- Screen Details
- Block details
- Data Source Details

4.2.2 System Packages

This topic describes about the system packages.

Main package would be generated by the Tool and should not be modified by the developer.

There is small change in the structure of the package depending on the type of the call form (Maintenance or Transaction).

Unlike normal maintenance function ids, call form packages does not have any call to the business logic within itself (similar to transaction function id). If developer wishes to uses any functions within the main package , call has to be made from the release specific package.

Main package contains functions for :

- Converting Ts to PL/SQL Composite Type
- Calling fn_main.

- Mandatory checks (fn_check_mandatory).
- Default and validation(fn_default_and_validate)
- Querying(fn_query)
- Converting the Modified Composite Type again to TS

Except the functions for type conversions, others functions calls the respective hook functions in hook packages of the call forms. Thus no processing logic within the main package is used It is to be noted that each of these functions are called from the main package of the main function id (where this call form is used) during respective stages.

But the package contains many other system generated functions for operations like

- Mandatory checks(fn_sys_check_mandatory)
- Default and validation(fn_sys_default_and_validate)
- Uploading to DB(fn_sys_upload_db)
- Query operation (fn_sys_query) etc

These functions are not called anywhere in the package. These functions if required can be called by the developer from the release specific package. Otherwise developer can write his own logic for the same in the Hook Packages

4.2.3 Hook Packages

This topic describes about the hook packages.

Release specific packages will be generated based on the release type (KERNEL.CLUSTER or CUSTOM). The structure of the package depends on the type of call form (Maintenance or Transaction). Developer can add his code in the release specific hook package.

4.3 Other Units

This topic describes about the other units used in the module.

This topic consists of sub-topics:

- Xsd
  This topic describes about the Xsd.

4.3.1 Xsd

This topic describes about the Xsd.

Only Type XSD will be generated for a Call Form function Id. Subscript **Subys** will be added before XSD Type identifier in the name of the generated xsd.

This type xsd will be used in the type xsd of any function which uses the particular call form

5

Extensible Development

This topic describes about the extensible development.

Developer can add his code in hook packages and release specific JavaScript file.

This topic contains the following sub-topics:

- Extensibility in JavaScript Coding
  This topic describes about the extensibility in javascript coding.
- Extensibility in Backend Coding
  This topic describes about the extensibility in backend coding.

5.1 Extensibility in JavaScript Coding

This topic describes about the extensibility in javascript coding.

For release specific JavaScript coding, code has to be written in release specific JavaScript file. It follows the naming convention as : (Function Id)_(Release Type).js

Example: Code in CFCTRCHG_CLUSTER.js is exclusive to cluster release

This JavaScript file allows developer to add functional code and is specific to release. The functions in this file are generally triggered by screen events. A developer working in cluster release would add functions based on two categories:

- Functions triggered by screen loading events
  Example: fnPreLoad_CLUSTER(), fnPostLoad_CLUSTER()
- Functions triggered by screen action events
  Example: fnPreNew_ CLUSTER (), fnPostNew_ CLUSTER ()

5.2 Extensibility in Backend Coding

This topic describes about the extensibility in backend coding.

Release specific code has to be written in the Hook Packages generated. Structure of a Maintenance and Transaction Call Form hook packages are almost the same.

Note

though structure is almost the same ,arguments differ in transaction and maintenance call forms .Hence Transaction Call Form can be attached only with Transaction screen and similarly for Maintenance screens

Different functions available in the Hook Package of a Call Form are:

1. Skip Handler : Pr_Skip_Handler
   This can be used to skip the logic written in another release.

   Example: logic written in KERNEL release can be skipped in CLUSTER release

2. Fn Main
   This is called form the fn_main in main package.
3. Fn_pre_query
4. Fn_post_query
   Any specific logic while querying can be written in these functions. It is called from fn_query of the main package
5. Fn_pre_upload_db
6. Fn_post_upload_db
   Any logic while uploading data to tables can be written here.
7. Fn_pre_default_and_validate
8. Fn_post_default_and_validate
   Any release specific logic for defaulting and validation can be written here . It is called from the fn_default_and_validate in the main package
9. Fn_pre_check_mandatory
10. Fn_post_check_mandatory
    Any mandatory checks can be validated here.
11. Fn_pre_process
12. Fn_post_process
    These hook functions are specific to transaction call form screens. These are called from fn_process of the main package which in turn is called from fn_process of the calling function id

Refer maintenance and Transaction Screen development document for further explanation.