Call Form Oracle Banking Trade Finance Release 14.7.0.0.0 [November][2022]



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# 1. Preface

This document describes the features of a Call Form screen in FLEXCUBE and the process of designing a Call form screen 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 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

<u>04-Development\_WorkBench\_Screen\_Development-I.docx</u> <u>05-Development\_WorkBench\_Screen\_Development-II.docx</u> <u>14-Development\_of\_Online\_Forms.docx</u>

# 2. Introduction

## 2.1 How to use this Guide

The information in this document includes:

- <u>Chapter 2 , "Introduction"</u>
- <u>Chapter 3 , "Overview of Call Form"</u>
- <u>Chapter 4 , "Screen Development"</u>
- <u>Chapter 5 , "Generated Units"</u>
- <u>Chapter 5 , "Extensible Development"</u>

# 3. Overview of 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

- 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

## 4. Screen Development

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

For detailed explanation, refer the document: 04-Development\_WorkBench \_Screen\_Development-I.docx

## 4.1 Header Information

Provide the header information as shown in the figure.

		📰 🗵 🗏 🖗
Action Load 🔻	Function Type Parent	Function Category Transaction
Function Id CFCTRCHG	Parent Function	Header Template None 💌
Save XML Path CFCTRCHG_F BROWSE	Parent Xml	Footer Template
ch		
Preferences		
DataSource		
🗀 ListOfValues 🗀 DataBlocks		
Screens		
TieldSets		
Carlons Carlos		
CallForms		
LaunchForms		
🔁 Summary		

Fig 4.1 Call Form header Information

Note the following while providing header information.

i) 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: CFCTRCHG, ISCTRSTL etc are valid call form names

- ii) Call Form Category:
   It has to be either Maintenance or Transaction depending on the functionality and the screens from which it will be invoked
- iii) Footer Template:
   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
- iv) Function Type : Parent and child functionality is supported for call forms

## 4.2 Preferences

Provide the menu details in the Preferences screen

Action Load  Function Id CFCTRCHG Save XML Path CFCTRCHG_F Search	Function T Parent Func BROWSE Parent 3 Preferences			Function Category Transaction Header Template None Footer Template	X		9	
Preferences DataSource DataSource DataBlocks DataBlocks FieldSets Actions CallForms CallForms Summary	Head Office FL Logging Requ Auto Authoriza Tank Modificat Field Log Req Multi Branch A Excel Export R	iired tion tions uired cccess	Modul Module Descriptio Branch Process Cod SVN Repository UR Transaction Bloc Nam Transaction Field Nam	The ICCF  The ICCF  Choose Block  Choose Field  Choose Field				
	Function Id CFCTRCHG	DF	Module *	Module Description	rol String	g 🕂 🗕	*	

Fig 4.2 Call Form Preferences

Note the following while providing Preferences for Call Forms.

i) Module name :

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

ii) Of the menu details inc generated, only script for SMTB\_MENU and SMTB\_FCC\_FCJ\_MAPPING is required for Call Forms

# iii) 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

## 4.3 Data Sources

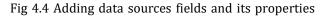
Identify the tables/views for the call form. Define data sources and add data source fields as required

	Function Type Parent  Parent Function WSE Parent Xml		Function Category Transaction Header Template None - Footer Template	-		
Search     DiasSource       DataSource     DiasSource       DiasSource     CHS       DiasSource     CHS       CFTBS_CHARGE_ASSOC     CFTBS_CHARGE_ASSOC       CFTBS_CHARGE_LIQD_MASTER       DiataBlocks       DataBlocks       Screens       FieldSets       Actions       Califorms	ta Source Details          Data Source       CSTBS_CONTRACT_CHG         Master       Yes •         Relation Type       One To One •         Multi Record       No •         PK Cols * CONTRACT_REF_NO~LATEST_EVENT_©         PK Types *       VARCHAR2-NUMBER         Upload Table	Parent Relation Where Clause Default Order By Type	▼ Normal ▼ Mandatory	0	- 6	
CaunchForms	Adding data sources and maintain					

Note the following while creating data sources

- i) Master Data Source has to be a single entry data source.
- ii) Logical Relationships has to be maintained for all data sources except the parent
- iii) Provide PK Cols and PK types for all data sources.
   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

						-		
						×		7 4
Action Load 👻		Function Type Parent 👻		Function Category Transaction	-			
Function Id CFCTRCHG		Parent Function		Header Template None 🔻				
Save XML Path CFCTRCHG_F	BROWSE	Parent Xml		Footer Template	•			
h	Data Source Field	Details				F	lefresh	
Preferences	Column Name	CONTRACT_REF_NO	Data Type	VARCHAR2			1	
DataSource	Block Name	BLK_CHARGES	Max.Length	16				
CONTRACT_REF_NO	Field Name		Upload Table Column					
LATEST_EVENT_SEQ_NO				Not Required in Upload Tables				
CFTBS_CHARGE_ASSOC				opidad rabies				
CFTBS_CHARGE_LIQD_MASTE	R							
ListOfValues								
DataBlocks								
Screens FieldSets								
Actions								
CallForms								
LaunchForms								
Summary								



Max length of the data source field can be modified as per requirement

## 4.4 Data Blocks

Determine the block structure for the function id .Define Data Blocks as per the design

Action Contraction	BROWSE Block Properties	Function Type Parent - Parent Function Parent Xml	Function Categ Header Templa Footer Templa	
<ul> <li>Preferences</li> <li>DataSource</li> <li>ListOt/Alues</li> <li>DataBlocks</li> <li>ELK_CHARGE_ASSOCIATION</li> <li>BLK_CHARGE_ASSOCIATION</li> <li>BLK_CHARGE_LIQUIDATION</li> <li>Storems</li> <li>CallForms</li> <li>LaunchForms</li> <li>Summary</li> </ul>	Block Name Block Title Parent Relation Type Block PK Fields	BLK_CHARGES LBL_CHARGE  One To One  Datasource Available	XSD Node Annotation XSD Node Annotation Master Block Ves V Multi Record No V Block Type Normal V Datasource Added CSTBS_CONTRACT_CHG	

Fig 4.5 Defining Data Blocks and maintaining its properties

Note the following while creating data blocks

- i) Master Data Source has to be a single entry data source.
- ii) Logical Relationships with the parent has to be maintained for all data sources.
- iii) Provide PK Cols and PK types for all data sources.

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

iv) Provide Xsd node name if the block is normal and is required in gateway request

Add block fields to the data block as required.

Action Latevine   Function Idea Function Type   Function Idea Parent Function   Back Parent Function   Back Parent Function   Back Parent Function   Back Parent Kmal   Footer Template Footer Template   Back Field Properties     Field Name LATEVINSEONO   Back Field Name   Colomer Name LATEVINSEONO   Back Colomer Name   Latevinse Field Stare   Back Colomer Name   Latevinse Field Stare   Back Colomer Name   DataSource Stare   Back Colomer Name   Latevinse Field Stare   Back Colomer Name   Latevinse Field Stare   Back Colomer Name   DataSource Stare   Back Colomer Name   Colomer Name Field Stare   Back Colomer Name   Colomer Name Field Stare   Back Colomer Name   Colomer Name Field Stare   Back Field Stare   Colomer Name Field Stare   Back <th>Function Generation</th> <th></th> <th></th> <th></th> <th></th>	Function Generation				
Function Id CFCTRCHG       Parent Function       Header Template None ▼         Save XML Path CFCTRCHG       BROWSE       Parent Xml       Footer Template         Search       Block Field Properties       Image: Control of the second					🔚 🗶 🗏 🐬 🥥 🔿
Function Id CFCTRCHG       Parent Function       Header Template None ▼         Save XML Path CFCTRCHG       BROWSE       Parent Xml       Footer Template         Search       Block Field Properties       - < <        ·	Action Load 👻	Function Type Paren	it 👻	Function Category	Transaction -
Search       Block Field Properties         Block Field Properties       Image: Construction of the constructio	Function Id CFCTRCHG	Parent Function		Header Template	None 👻
Preferences       XSD Tag       ATEVINSEONO       Required         B DataSource       Stablocks       Field Label       LBL_LATEVINSEONO       Required         DataBlocks       DataSource       Stablocks       Required       Visible         DataSource       DataSource       Stablocks       Required       Visible         DataSource       DataSource       Stablocks       Required       Visible         DataSource       Column Name + LATEVINSEONO       Field Size +       Required       Required         DataTopic       Column Name + LATEST_EVENT_SEO_NO       Maximum Length       22       Calender Text         DataTopic       Visible       Popup Edit Required       Display Type       Text       Popup Edit Required         DataSource       Screens       Maximum Decimals       Popup Columination       Popup Edit Required       Popup Edit Required       No Required Not	Save XML Path CFCTRCHG_F	BROWSE Parent Xml		Footer Template	
B DataSource   B DataSource   B ListOMalues   D DataSource   B DataSource   B DataSource   D DataSource   B DataSource   D DataSource   D DataSource   S DataSource   D DataSource <td>Search</td> <td>Block Field Properties</td> <td></td> <td></td> <td>- 🛛 🗔 🗐</td>	Search	Block Field Properties			- 🛛 🗔 🗐
LaunchForms     Off Line LOV Name     Mask.id     #E       Summary     Fieldset Name     FLD_FCCREF     Mask.id     #E       Custom Attributes     Events     Related Field     Image: Custom Attributes	B DataSource DataSource DataBlocks D ListOrValues D DataBlocks D ListOrValues D DataBlocks D LK, CHARGES D LK, CHARGE_ASSOCIATION D BLK, CHARGE_ASSOCIATION D BLK, CHARGE_ASSOCIATION D BLK, CHARGE_LIQUIDATION D FieldSets C Actions D C Construction D C C C C C C C C C C C C C C C C C C C	Field Label LATEVINSEONO DataSource CSTBS_CONTRACT_CHG Column Name LATEST_EVENT_SEQ_NO Data Type Number ↓ Display Type Text ↓ Parent Field Related Block Related Field	XSD Annotation Field Size Maximum Length Minimum Value Maximum Value Maximum Decimals TextArea Rows TextArea Columns Default Value		<ul> <li>Visible</li> <li>Read Only</li> <li>Calender Text</li> <li>Popup Edit Required</li> <li>Uppercase Only</li> <li>LOV Validation Required</li> <li>Input by LOV Only</li> <li>Not Required In Xsd</li> </ul>
	aunchForms	Fieldset Name FLD_FCCREF	-	Active	Position

Fig 4.6 Attaching Block Fields and maintaining its properties

Note the following while attaching block fields to data blocks

- i) In case the field is not required in XSD, check not Required XSD
- ii) Ensure that Related Block and Field are given for Amount Fields

*iii)* 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

#### 4.5 Screens

Design the screen layout based on the requirement

Action Load       Function Type Parent       Function Category Transaction         Function Id CFCTRCHG       Parent Function       Header Template         Save XML Path CFCTRCHG       BROWSE       Parent Xml       Footer Template         earch       Screen Details <ul> <li>CSC</li> <li>CSC</li> <li>Screen Title</li> <li>ELISON/alues</li> <li>Screen Size</li> <li>Medium</li> <li>Exit Button Type Default Ok Cancel</li> <li>Screen Size</li> <li>Medium</li> <li>Exit Button Type Default Ok Cancel</li> <li>Screen Size</li> <li>Medium</li> <li>Exit Button Type Default Ok Cancel</li> <li>Screen Size</li> <li>Medium</li> <li>Exit Button Type Default Ok Cancel</li> <li>Screen Size</li> <li>Screen Size</li> <li>Screen Size</li> <li>Medium</li> <li>Exit Button Type Default Ok Cancel</li> <li>Screen Size</li> <li>Screen Size</li></ul>	Function Generation							ومعينيين	
Fundion Id CFCTRCHG       Parent Fundion       Header Template None ▼         Save XML Path CFCTRCHG I       BROWSE       Parent Xml       Footer Template ▼         earch       Screen Details       Image: CVS_CFCTRCHG       Screen Title       Image: CVS_CFCTRCHG         In DataSource       Screen Title       BL_CHARGE_DETAILS       Image: CVS_CFCTRCHG       Image: CVS_CFCTRCHG       Image: CVS_CFCTRCHG         In DataSource       Screen Title       BL_CHARGE_DETAILS       Image: CVS_CFCTRCHG       Image: CVS_CFCTRCHG </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>×</th> <th>77 🤘</th>								×	77 🤘
Save XML Path CFCTRCHG J       ERWWSE       Parent Xml       Footer Template         earch       Screen Details       - R R         Preferences       DataSource       Screen Name       CVS_CFCTRCHG         B DataBlocks       Screen Size       Medium       Visible         Screens       Screen Size       Medium       Visible         B DataBlocks       Screen Size       Medium       Visible         B Dotores       Galforms       CONTREF       V       Exorce Block       Target Block       Target Field       Active         Califorms       Launchforms       With Screen       Visible       Visible       Visible       Visible	Action Load 👻		Function Type Parent	*		Function Cate	gory Transaction 👻		
Screen Details       All Preferences         Preferences       Screen Name       CVS_CFCTRCHG         DataBource       Screen Name       CVS_CFCTRCHG         DataBource       Screen Size       Medium         Screens       Exit Button Type       Default Ok Cancel         DataBource       Screen Size       Medium         Screens       Exit Button Type       Default Ok Cancel         Screens       Exit Button Type       Esit Button Type         Screens       Exit Button Type <t< td=""><td>Function Id CFCTRCHG</td><td>P</td><td>arent Function</td><td></td><td></td><td>Header Temp</td><td>late None 🔻</td><td></td><td></td></t<>	Function Id CFCTRCHG	P	arent Function			Header Temp	late None 🔻		
Preferences         □ DataSource         □ DataBlocks         □ DataBlocks         □ Screen Size         □ Heddim         □ Heddex         □ Feores         □ Forores         □ Addons         □ CollForms         □ LaunchForms	Save XML Path CFCTRCHG_F	BROWSE	Parent Xml			Footer Temp	late 👻		
B DataSource     Screen Tallie     Screen Tallie     Screen Tallie     Screen Tallie     Screen Size     Screen Size	Search	Screen Details						م س	u 🗔 🗳
BODY     BODY     BODY     BODY     BODY     BODY     CONTREF     P	DataSource     ListOfValues     DataBlocks     Source     Cys_CFCTRCHG	Screen Title LBL_C Screen Size Mediu	HARGE_DETAILS						
Source Block     Source Field     Argument Value     Target Block     Target Field     Active       Addons     CONTREF     +     -     BLLk_CHARGES +     CONREFNO +     Yes +       Callforms     ESN     +     -     BLk_CHARGES +     LateWNSEONO +     Yes +	🗉 🧰 BODY								+ -
CallForms ESN Y BLK_CHARGES V LATEVISEONO Y Yes V	M Trendoets	Argument Name	Source Block	Source Field	Argument Value	Target Block	Target Field	Active	*
LaunchForms		CONTREF		<b>*</b>		BLK_CHARGES -	CONREFNO -	Yes 👻	
Summary		ESN				BLK_CHARGES -	LATEVNSEQNO -	Yes 👻	
	🛅 CallForms 🛅 LaunchForms								

Fig 4.7 Designing Screens and providing Screen Properties

Note the following while creating screens

- i) One Screen should be identified as the main screen; if multiple screens present
- ii) In the function id ,where the call form is called :

For the button (which launches call form) events, the main screen of the call form has to be mentioned

iii) Screen Arguments :

Screen Arguments has to be provided 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.

Add Tabs, sections and partitions as per the screen design

Function Generation									
Action Load + Function Id CFCTRCHG Save XML Path CFCTRCHG F	BROWSE	Function Type Parent Parent Function Parent Xml			Function Category Transa Header Template None Footer Template		×	¥	9
Search	Tab Details					Dependent F	ields 🐥	- A	( <b>1</b> 9
<ul> <li>Preferences</li> <li>DataSource</li> <li>ListOt/alues</li> <li>Screens</li> <li>CVS_CFCTRCHG</li> <li>HEADER</li> <li>BODY</li> <li>TAB_MAIN</li> <li>SEC_ASSOC</li> <li>SEC_APPL</li> <li>SEC_LIQD</li> <li>FIG8sts</li> <li>Actions</li> <li>CallForms</li> <li>Summary</li> </ul>	Screen Name Tab Name Tab Label Tab Type	CVS_CFCTRCHG TAB_MAIN LBL_ALL Data •	 [#E	, [√] Visible					

Fig 4.8 Creating Tabs and maintaining Properties

Note the following when creating tabs and sections for the screen

i) 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

ction Generation					× = 7 v
Action Load  Function Id CFCTRCHG Save XML Path CFCTRCHG_F	BROWSE	Function Type Parent	Header	Category Transaction  Template None Template	
save XML Patri CPCTRCHG_r	Section Details	Parent Am	Poolei	Template 👻	- 🔊
Preferences DataSource ListOfValues DataBlocks		C_MAIN	I⊽ Visible ☐ Collapse		
Screens	Partition Details				+-
B BODY TAB_MAIN SEC_MAIN SEC_ASSOC	■         Partition SI No           ■         1           ■         2	Parti Part_Main_1 Part_Main_2	ion Name	Width         Sub-part           50 •         •           33 •         0 •	itions
SEC_APPL SEC_LIQD FOOTER					
Actions CallForms LaunchForms Summary					

Fig 4.8 Section Properties

Multiple Screens can be designed if required.

# 4.6 Field Sets

Create Field sets and attach the fields to the field sets as required

Function Generation			
			🗵 🗏 🖗 🧐
Action Load 👻	Function Type Parent	Function Category Transaction	
Function Id CFCTRCHG	Parent Function	Header Template None 👻	
Save XML Path CFCTRCHG_F	BROWSE Parent Xml	Footer Template	
earch	Fieldset Properties		<u>- a</u>
Preferences DataSource DataSource DataSource DataBlocks CVS_CFCTRCHG HEADER BACK DATABANN SEC_MAIN	Fieldset Name     FLD_FCCREF       Fieldset Label     FE       Data Block     BLK_CHARGES       Multi Record     No       View Type     Single       Fieldset Height     Fieldset Height	Screen Portion Body  Tab Name TAB_MAIN	Horizontal Fieldset ReadOnly Navigation Button Visible
SEC_ASSOC	Data Block Fields	FieldSet Fields     Subpartition Name     LATEVNSEONO	
ia SEC_LIQD		I✓   CONREFNO	
Freioseis     FLD_FCCREF     FST_CHARGE_ASSOCIATION     FST_CHARGE_APPLICATION     FST_CHARGE_LIQD_MASTER     Autors     CallForms     LaunchForms     Summary		44	

Fig 4.9 Field Set Properties

Not the following when attaching field to a field set

i) If a field value 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

## 4.7 Actions

Mention the web service and amendable information in Actions Screen

		Function Type	Parent 👻	Function Category Transaction				
Action Load  Function Id CFCTRCH	G	Parent Function		Header Template None				
Save XML Path CFCTRCH				Footer Template				
ch	Form Actions						C	
Preferences	XSD Type Identifier TxnChgDtls			Service Name CFCTRCHG			×E	
⊇ DataSource ⊇ ListOfValues ⊇ DataBlocks ⊇ Screens	Operation	Id						
⊒ FieldSets ⊒ Actions							+ -	
CallForms	Web Service	Action Code		Operation Code	Action Stage Type	Amendables	^	
🖢 LaunchForms 🖢 Summary		QUERY				Amendables		
Summary		NEW				Amendables		
		MODIFY				Amendables		
		AUTHORIZE				Amendables		
		DELETE				Amendables		
		CLOSE				Amendables		
	Π	REOPEN       REVERSE				Amendables		
						Amendables		
		ROLLOVER				Amendables		
	Π	CONFIRM				Amendables		
	E	LIQUIDATE				Amendables		
		SUMMARYQUERY			V			

Fig 4.10 Actions Screen

Note the following while maintaining web services and amendable information

i) 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: for the example given in the figure, name of the xsd generated will be SubSys-TxnChgDtls-Types.xsd* 

- ii) Operation Id and Operation Code need not be maintained for the above mentioned reason
- iii) Amendable information has to be maintained similar to any other function id's.

## 4.8 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.

## 4.9 Call 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

# 4.10 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

## 4.11 Preview

The figure shows the preview of the cal form screen developed

🔶 Charge Details									
Contract Reference *									
Charge Association									
I						[	==		
Creation ESN	ation ESN Component *		Rule		ription	Consider as Discour	-		
							-		
•	۱.								
Charge Application									
I									
Creation ESN	Component *	Tag Currency	Tag Amount	Cha	rge Currency	Charge Amount	*		
							-		
٠ III									
Charge Liquidation									
🛯 🖣 1 of 1 🕨 🕨	Go to Page						==		
Event Sequence Number	Component	Charge Curre	ncy Charge An	nount	Liquidated		*		
					$\checkmark$				
							-		
•						•			
							1		
						Ok	Exit		

Fig 4.10 Call Form Screen Preview

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

# 5. Attaching 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 04-Development\_WorkBench \_Screen\_Development-I.docx for detailed explanation Note that 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.

# 6. Generated Units

The following units will be generated for a Call Form screen. Refer document on generated units on detailed explanation on the same

## 6.1 Front End Units

#### 6.1.1 Language xml

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

## 6.1.2 SYS JavaScript File

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

## 6.1.3 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

## 6.2 Data Base Units

## 6.2.1 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

i) 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
- iii) Lov Details
- iv) Amendable Details
- v) Label details
- vi) Screen Details
- vii) Block details
- viii) Data Source Details

## 6.2.2 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

## 6.2.3 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.

## 6.3 Other Units

#### 6.3.1 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

# 7. Extensible Development

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

# 7.1 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 ()*

# 7.2 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 that 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



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