Development of Maintenance Form Oracle Banking Trade Finance Release 14.7.3.0.0 Part No. F94108-01

[February] [2024]



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1. Preface

This document describes Maintenance Screens in FLEXCUBE and the process of designing a simple Maintenance 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 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>

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 Maintenance Screen

Maintenance Function Id's are used for storing maintenance data which are required for processing of any contracts, batches or for any other maintenance which are dependent on this

Example: Customer maintenance screen

If any customer wants to use the service of a bank, details about the customer will have to be maintained in the system .This will be maintenance data which will be required for other maintenances (creating account for the customer) as well as for transaction processing (debiting of customer account)

Business logic for a maintenance function id would be provided by the Development Workbench generated files .Most of the cases, system provided logic would be sufficient .Extra validations can be coded in the hook packages by the developer.

4. Screen Development

Design and development of a Maintenance function id is similar to any other function Ids. This section briefs the steps in designing a Maintenance screen. STDCINF is sample function id used for demonstration in this document

For detailed explanation, refer the document: <u>4-Development WorkBench</u> <u>Screen Development-I.docx</u>

4.1 Header Information

Provide the header information as shown in the figure.

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Function Generation		
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Action None ·	Function Type Parent -	Function Category Maintenance -
Function Id	Parent Function	Header Template None -
Save XML Path	Parent Xml	Footer Temptate None ~
DataSource ListOrValues Screens FieldSets Actions Califorms LaunchForms Summary	12.1: Providing Header Information	

- For new screen select action As New.
- Enter Function ID \rightarrow STDCIFD
- Function Type \rightarrow Parent
- Function Category \rightarrow Maintenance
- Parent Function Id \rightarrow None
- Parent Xml \rightarrow None
- Header Template \rightarrow None (Only for Process flow screens)
- Footer Template \rightarrow Maint Audit

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User can save work at any point in time. Click the save icon on top right for the same .In order to work again with it select action as Load and load radxml from the hard disk path

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		While files from the interest can be harm your computer. If you do not save this file. <u>What a the mile?</u>	e useful, some files can potentially trust the source, do not open or		

Fig 12.3: Saved File Information page

Note the following while providing header information for Maintenance screen

i) Naming Convention:

The third letter of the function id has to be D. Ideally the function id name should have 8 characters.

ii) Footer Template

Make sure that the master data source has the audit columns if footer template is provided as Maint log.

Refer <u>04-Development_WorkBench_Screen_Development-I.docx</u> for detailed explanation

4.2 Preferences

- Details entered in Preferences are used in generating INCS for SMTB_MENU, SMTB_FUNCTION_DESCRIPTION and SMTB_ROLE_DETAILS.
- **Control String** → Developer needs to select the actions which should be available for this screen in FLEXCUBE.

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Save XML Path D'IRADTOOL	Paren	t Xml		Footer Template None				
arch	Preferences							9
Preferences DataSource ListOfvalues Screens FieldSets CallForms LaunchForms Summary	Source Construction Constructio	Module Module Description Branch Program Id Process Code SVN Repository URL Transaction Block Name Transaction Field Name	ST // E Stalic Maintenance Choose Block Choose Field	•]]	ing 🕂		
	Function Id		Module *	Module De	51.00	0.000	a little	9
		рт		Static Maintenance				

Fig 12.4: Providing Preferences for Maintenance Screen

Note the following points while providing details in Preferences screen

- i) Control String REVERSE, ROLLOVER, CONFIRM, LIQUIDATE, HOLD operations are not applicable for maintenance screens.
- Defining Browser Menu Tree
 Browser menu tree will be defined in the script generated for
 smtb_function_description. The following labels has to be maintained for generation of proper script
 Main Menu: LBL_{function id}_MAIN_MENU
 Sub Menu 1: LBL_{function id}_SUB_MENU_1

Sub Menu 2: LBL_{function id}_SUB_MENU_2 Description: LBL_{function id}_DESC Example: For STDCIFD, following labels has to be maintained LBL_STDCIFD_MAIN_MENU, LBL_STDCIFD_SUB_MENU_1, LBL_STDCIFD_SUB_MENU_2, LBL_STDCIFD_DESC

Refer <u>Development WorkBench</u> <u>Screen Development-I.docx</u> for detailed explanation on preferences

4.3 Data Sources

- Right Click on Data Sources; click on Add. Add table window gets opened.
- If user knows the exact table name, he can enter name directly; else go to List Of values to get the list of tables available. Select the required table from the list.

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Screens FieldSals Actions Califorms LaunchForms Summary	Search Reset			
	Table Name STTM_CUSTOMER STTM_CUSTOMER_ALTERNATE_BRANCH STTM_CUSTOMER_CAT STTM_CUSTOMER_NAM_DETAIL STTM_CUSTOMER_NAM_MASTER STTM_CUSTOMER_PARAM STTM_CUSTOMER_PARE_MAGE STTM_CUSTOMER_SRC_DETAILS STTM_CUSTOMER_SRC_DETAILS STTM_CUSTOMER_SRNO STTM_CUSTOMER_SINNO STTM_CUSTOMER_VINUSED STTM_CUSTOMER_VINUSED			

Fig 12.5: Adding Data Sources for the Function id

- Select Master as Yes if added data source is Master Data Source for the screen. Every function id should have one master data source..
- **Primary Key columns** (i.e. Pk Cols) and **Primary Types** (i.e. Pk Types) are mandatory. If it is already maintained in user schema in STTB_PK_COLS it will populated automatically otherwise user needs to enter values without fail. If user misses Pk cols and Pk Types package generation will fail. *Note: Master Data Source cannot have any parent.*

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Fig 12.6: Providing master Data Source Properties

• Right Click on Added Table (STTM_CUSTOMER) to add fields to the table. Popup window gets opened with available columns in data source. Select the required fields and click ok. Selected will get added to the Data Source Tree.

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a LaunchForms										
Summary										

Fig 12.7: Including Data Source Fields for the Data Source

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CaliForms	ADDRESS_LINE3	VARCHAR2					
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Summary	ADDRESS_LINE4	VARCHAR2					
	COUNTRY	VARCHAR2					
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		· · · · · · · · · · · · · · · · · · ·	1				
		Ok Cancel					

Fig 12.7: Selecting Data Source Fields for the Data Source

Data Source Field Properties:

Only max length can be modified by the developer in data source field properties. Rest will be defaulted from table definition

Browser -	nent Workbench for Unive	rsal Banking		Windows		MOUSER Sign Out
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Action New -	tion Id STDCIFD Parent Function L Path D:RADTOOL Parent Xml Data Source Field Details Column Name CUSTOMER_NO Block Name MMER_NO MER_NO MER_NPPE MER_NAMUE1 SSS_LINE1 TRY NALITY NALITY NALITY NALITY	Function Type Parent -		Function Category Maintenance 👻		
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Save XML Path D:IRADTOOL		Parent Xml		Footer Template None	•	
arch	Data Source Field	Details			Refr	esh — 🗐
Save XML Path D/RADTOOL Parent Xml Footer Template None Search Data Source Field Details DataSource Column Name CUSTOMER / NO DataSource Block Name Data Type Block Name Block Name Max Length	Column Name	CUSTOMER_NO	Data Type	VARCHAR2		
		MaxLength	9	5		
		-				
	E: 10 7 1		for Data Source Fiel			

Data model of a single function id would include multiple tables .All the tables needs to added in the function id. Note the following while adding child data sources

Adding Child Data Source:

- Select Multi Record value as Yes if child data source is Multi record table.
- Child Data Source should always be associated with a parent.
- Relation is mandatory between parent and child. While giving relation, parent data source should come in left side of the relation.

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unction Generation						windows	Options	Sign	-
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earch	Data Source Detail	s						+ -	9
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Fig 12.7: Providing properties for Child Data Source

Note: A data source cannot be parent to itself.

Note the following while adding data sources:

- i) If the data source is designed with relation type as 1: N with its parent, then it should have at least one more Pk col than its parent (assuming relationship is based on Pk cols).
- ii) Master data source needs to have the audit columns if footer template is Maint audit; but those should not be added to data source fields as system will handle it

Refer <u>Development WorkBench</u> Screen <u>Development-I.docx</u> for detailed explanation on data sources.

4.4 Data Blocks

• Block Name should start with BLK_<short Name equivalent to data source but not exactly same as Data Source name>.

d Block		>
Block Name	BLK_CUSTOMER	
	Ok Cancel	
F L 40.0	: Creating a new Data Block	

- Select Parent block if added block is not Master Block.
- Select Multi Record (Yes/No) based on this value, available data sources will displayed in data source available text area.

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rch	Block Properties							+	- 1	5
Preferences	Block Name	BLK_CUSTOMER			XSD Node	Customer				
DataSource Block Title Block Title		NE	XSD	Node Annotation		2				
B STTM_CUST_GROUP	Parent	One To One 🔻	•		Master Block	Yes - No -				
DataBlocks	Relation Type Block PK Fields				Multi Record Block Type	Normal -				
BLK_CUSTOMER	Dioder teriolog	Datacou	rce Available		Datasouro	a Addad				
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CallForms										
a Califorms				particular and						
🔁 Summary				44						
				44						

• Select the required data source and click move button to attach Data Source to the block

	ment Workbench for Unive	ersal Banking							DUSE	
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Action New -		Function Type Parent	•		Function Category Maintenance	e 🕶				
Function Id STDCIFD		Parent Function			Header Template None 👻					
Save XML Path D:\RADTOOL		Parent Xml			Footer Template None	٠				
earch	Block Properties							+ -	<u>ai</u> 5	
Preferences Block Name		BLK_CUSTOMER		XSD Node	Customer		1			
DataSource	Block Title		2	XSD Node Annotation		_	2			
B STTM_CUST_GROUP	Parent		•	Master Block	Yes -					
ListOfValues DataBlocks	Relation Type	One To One 🔻		Multi Record Block Type	No - Normal -					
BLK_CUSTOMER	Block PK Fields	Detection	ce Available	Datasouro						
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CallForms										
Summary										
				44						

Fig 12.10: Attaching Data Sources to Data Block

Adding multi record data source to data block:

User on selecting Multi record Yes in data block properties all the data sources with multi record Yes will be populated. *Multi Data Source once used to one block won't available for reuse where as single record data source can be used in multiple blocks*

Select Block Fields:

- Right click on added block. Select Fields window will get opened. Developer needs to check the right side check box to add the required fields.
- **Field Name**: It should not be the same as column name .Special characters are also not allowed in the field name (including underscore and space)
- Label Code: It will be automatically populated based on field name.

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STTM_CUSTOMER STTM_CUST_GROUP		TTM_CUSTOMER -		-			
ListOfvalues	Column Name	Field Name	Label Code	* ·			
DalaBlocks	CUSTOMER_NO	CUSTNO	LBL_CUSTNO	mai 👻			
BLK_CUSTOMER	CUSTOMER_TYPE	CUSTTYPE	LBL_CUSTTYPE	ded			
FieldSols	CUSTOMER_NAME1	CNAME	LBL_CNAME		-		
Actions 📜	ADDRESS_LINE1	ADDR1	LBL_ADDR1				
CaliForms	COUNTRY	CNTY	LBL_CNTY				
Summary	☑ NATIONALITY	NLTY	LBL_NLTY				
	LANGUAGE	LANG	LBL_LANG				
	V						
	£.						
				-			
				Ok Cancel			

Fig 12.11: Adding Block Fields to Data Block

Refer <u>*Development WorkBench Screen Development-I.docx*</u> for detailed explanation on data blocks and block field properties

4.5 Screens

- Right click on Screens node to add a new screen
- Screen Name should start with CVS_<Name>...
- By default screen are divided into 3 parts.
- One Main Screen is Mandatory.
- Tabs can be defined on any of the screen portions as required
- User can add sections to tabs.
- Each section can be divided into partitions.

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function Generation								77	-
Action New Function Id STDCIFD Save XML Path D:(RADTOOL Search	Screen Details	Function Type Parent Parent Function Parent Xml	•		Function Category Main Header Template Non Footer Template Non	ie 🔻			
Preferences DataSource ListOValues DataBlocks CVS_MAIN D CVS_MAIN D HEADER DOY	Screen Name Screen Title Screen Size Exit Button Type	CVS_MAIN LBL_CUST Small • Default Cancel •	₽ ≣. -	☑ Main Screen ☑ Visible				+ -	
P Forter FieldSets Actions CallForms LaunchForms Summary	Argument I	lame Source Block	Source Field	Argument Value	Target Block T	arget Field	Active		

Fig 12.12: Providing properties to new Screen

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Action New *	Function Type Parent 💌		Function Category Malni	enance 🔻		
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ch	Tab Details			Dependent	t Fields 🌵	- 21
Preferances	Screen Name CVS_MAIN	🔽 Visible				
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HEADER TAB_HEADER	Add Section		×			
	Section Name SEC_CUST					
TAB_MAIN						
TAB_FOOTER	Ok Cancel					
FieldSels Actions						
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LaunchForms Summary						
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Fig 12.13: Creating new section in TAB_MAIN in the body of screen CVS_MAIN

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Action New 👻	Function Type Parent	Function Category Maintenance 👻
Function Id STDCIFD	Parent Function	Header Template None 👻
Save XML Path D:\RADTOOL	Parent Xml	Footer Template None -
arch	Section Details	- 🗷 🖙
Preferences DataSource ListOfValues DataBlocks DataBlocks	Section Name SEC_CUST Section Label LBL_SECT Collapse	
🖃 🚞 CVS_MAIN	Partition Details	+-
TAB_HEADER	Partition SI No Partition Name	Width Sub-partitions
BODY	PART1	50 👻
TAB_MAIN SEC_CUST	2 PART2	50 👻 🖵
G DOTER		*
TAB_FOOTER FieldSets CallForms CallForms LaunchForms Summary		

4.6 Field Sets

A group of fields can be grouped together in a Field set which can be placed together in the screen

- Field Set Name should start with FST_<>.
- Select the Block adding to field set.
- All fields available to the block will be displayed in to the data block fields text area. Move fields from data block fields to Field set fields.
- The order of fields in *field set fields* will reflect in the screen as well

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unction Generation							-
Action New Function Id STDCIFD Save XML Path D1RADTOOL	Function Type Parent Parent Function Parent Xml		Function Category Mainter Header Template None Footer Template None				
earch	Fieldset Properties					- 🛛 🗳	,
 Preferences DataSource ListOVAlues DataBlocks Screens FST_CUST1 FST_CUST2 Actions CallForms LaunchForms Summary 	Fieldset Name Fieldset Label Data Block Multi Record View Type Fieldset Height CUSTNO C	Screen Portion Tab Name Section Name Partition Name Number Of Rows	VS_MAIN	E	Horizont: ReadOni Navigatic	ly	

Fig 12.14: Attaching Fields to a Field set

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Function Id STDCIFD	Parent Function	Header Template None 👻
Save XML Path D:IRADTOOL	Parent Xml	Footer Template None
arch	Fieldset Properties	- R 4
Preferences	Fieldset Name FST_CUST1	Screen Name CVS_MAIN Horizontal Fieldset
I 🚞 DataSource	Fieldset Label	Screen Portion ReadOnly
I 🧰 DataBlocks	Data Block BLK_CUSTOMER	Tab Name 📃 🔽 Navigation Button
🤤 Screens 🧊 FieldSets	Multi Record No - View Type Single -	Section Name 🔽 🔽 Visible
FINIT		Partition Name
FST_CUST2	Fieldset Height	Number Of Rows
Actions		
CallForms LaunchForms	Data Block Fields	Pield Set Fields Subpartition Name
Carl Summary	CNTY	
	NLTY LANG	CNAME
		ADDR1
		44

• Select the screen portion (Header/Body/Footer) where this field set has to be placed. Select remaining details like tab, section and partition.

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Action New -	Function Type Parent 👻		Function Category Maintenance	-
Function Id STDCIFD	Parent Function		Header Template None 👻	
Save XML Path D:\RADTOOL	Parent Xml		Footer Template None	-
ch	Fieldset Properties	\sim		- 🔍 🗳
Preferences DataSource ListOfValues DataBlocks Screens FieldSets FST_CUST1 FST_CUST2 Actions CallForms LaunchForms Summary	Fieldset Name Fieldset Label Data Block Multi Record View Type Fieldset Height CNTY NLTY LANG	Screen Name Screen Portion Tab Name Section Name Partition Name PART1 Number Of Rows	V V	☐ Horizontal Fieldset ☐ ReadOnly ☐ Navigation Button ☑ Visible

Fig 12.15: Providing details where Field Set has to be placed

Once fields are added to field set, developer can check the preview of the designed screen. Right click on Screen Name and click on Preview.

🔶 Main		S
🖹 New 🦻 Enter Query		
Customer No		
Name		
Туре		
Address		
Maker	Date Time:	
Checker		
	Date Time:	Exit
Mod No	Record Status	
	Authorization Status	
2		

Fig 12.16: Preview of the designed Screen

Adding Multi entry block to field set.

- On selecting a multiple block, Multi Record Property will be defaulted to Yes..
- In case of Multi record, View type can be either Single or Multiple (By Default).

🔶 Main		×
🗗 New 🦻 Enter Query		
Customer No Name Type Address		
I ≪ 1 of 1 🕨 🕨	Go to Page	+ - =
Group Id	Customer No Relation	
Maker Checker	Date Time: Date Time:	Exit
Mod No	Record Status Authorization Status	

Below image shows a multiple view multi record field set



• For multi record single view navigation button should be checked.

DRACLE FLEXCUBE Developm	ent Workbench for Unive	rsal Banking						DE	MOUS	EF
Browser -							Windo	ws Options	Sign Or	Jt
unction Generation									-	-
								🖬 🗶 🗏	移 🧐	
Action Load 👻		Function Type Parent				Funct	ion Category Maintenance	*		
Function Id STDCIFD		Parent Function				Head	ler Template None 👻			
Save XML Path STDCIFD_RAI	BROWSE	Parent Xml				Foo	ter Template Maint Audit	-		
earch	Fieldset Properties								- 🔊	>
Carl Preferences	Fieldset Name	FST_CUST2	5	Scree	en Name	CVS_MAIN	-	Horizont	al Fieldset	
DataSource DataSource STTM_CUSTOMER	Fieldset Label		S	creei	n Portion	Body	×	F ReadOn	ily	
CUSTOMER_NO	Data Block	BLK_GROUP -		Та	ab Name	TAB_MAIN	•	(C) Navigati	on Button	
CUSTOMER_TYPE	Multi Record	Yes -			on Name	SEC_GROUP	-	Visible		
CUSTOMER_NAME1 ADDRESS_LINE1		Single			on Name	PART1	-			
COUNTRY	Fieldset Height		Num	iber	Of Rows					
MATIONALITY										
LANGUAGE STTM_CUST_GROUP		Data Block Fields		1		FieldSet Fields	Subpartition Name			
CROUP_ID					GROUP		-			
CUSTOMER_NO				Г	CUST I		•			
ListOfValues					RELATI		•			
🗉 🚞 DataBlocks			44	der-1	REDATI					
			44							
BLK_GROUP Screens			NN							
CVS_MAIN										
BODY TAB_MAIN SEC_CUST										
TAB_MAIN TAB_MAIN SEC_CUST SEC_GROUP										
TAB_MAIN SEC_CUST SEC_GROUP										

- -

Fig 12.18: Properties for Single View Multi Record Field set

🔶 Main		
🗗 New 🖻 Enter Query		
Customer No Name Type Address		↓ 1 of 1 ▶
Group Id Customer No Relation		
Maker Checker	Date Time: Date Time:	
Mod No	Record Status Authorization Status	Exit

Below figure shows the preview of a single view multi record field set

Fig 12.18: Preview for Single View Multi Record Field set

4.7 LOV

List Of values can be defined for the function id using LOV node

- To add LOV right click on List of Values Node. LOV Name should start with LOV_<name>. *Example: LOV_COUNTRY.*
- Enter valid query and click on populate button

						.		9
Action Load -		Function Type Par	rent v		Function C:	tegory Maintenance -		
Function Id STDCIFD		Parent Function				mplate None -		
Save XML Path STDCIFD_RAI	BROWSE	Parent Xml				mplate Maint Audit 👻		
irch	List Of Values D	Details					- X	6
	LOV Que	ne * LOV_OCUNTRY ery select country_code,descr	ription from sttm	_country where auth_stat =	'A' and record_stat = 'O'			_
LOV_OCUNTRY							Populate	9
I 🧀 DataBlocks I 🧊 Screens	Query C	olumns Data Type	Visible	Reduction Field	Reduction Field Type	Reduction/Column La	ibel ^	
Jucens							-	
i 🚞 FieldSets								

Fig 12.19: Defining new LOV



Fig 12.20: Providing LOV query

Function Generation										1	. ×
								×	8	W	4
Action Load 👻		Function Type Parent	~			Function Category Maintenan	ce 🔻				
Function Id STDCIFD		Parent Function				Header Template None	•				
Save XML Path STDCIFD_RAI	BROWSE	Parent Xml				Footer Template Maint Audi	t 🔻				
Search	List Of Values Det	ails							- 2	. 🦻	^
Preferences DataSource BSTTM_CUSTOMER BSTTM_CUST_GROUP LIStOfValues LOV_OCUNTRY	LOV Name * LOV Query	ELOV_OCUNTRY	n from sttm_c	ountry where auth_stat :	= 'A' and record_stat =	· '0'	9	(Popula	ate	
🗄 🧰 DataBlocks	Query Col	umns Data Type	Visible	Reduction Field	Reduction Field	Type Reduction/C	olumn La	ibel		-	
Greens FieldSets	COUNTRY_CO	DE VARCHAR2 -	Yes 🕶	Yes 👻	TEXT -	LBL_CNTRY		#E			
CallForms CallForms CallForms CallForms CallSummary	DESCRIPTION	VARCHAR2 -	Yes 🔻	Yes 💌	TEXT -	LBL_COUNTRYCD)	1		Ŧ	

Fig 12.21: Providing LOV details

- Redn/Col Labels are mandatory. If user won't provide will get error on click of LOV button after deployment in FLEXCUBE
- After defining LOV go to block and corresponding field where the LOV has to be attached.

Block Field Properties to attach LOV to the field

- **Display Type:** Select display type as Lov.
- Lov Name: Select the required Lov name from the list of all defined LOV's.
- Click on return fields tab. The result fields maintained in the LOV query will be populated on click of *Default from Lov Definition* button

- Select the desired field (and its block)to which the result of the LOV query should be defaulted
- If return field is not required to be defaulted to any field in the screen, return field value can be left blank

Action Load -	Function Type			🖫 🗶 🗐 🐬 🧐
	Function Type			
Function Id STDCIFD		Parent 👻	Function Category Ma	aintenance 🔻
	Parent Function		Header Template No	one 🔻
Save XML Path STDCIFD_RAI	VSE Parent Xml		Footer Template Ma	aint Audit 🛛 🔫
Search Bloo	ck Field Properties			- 🗷 🗔 🦃
Preferences DataSource STM_CUSTOMER STM_CUST_GROUP LUSTValues DataBlocks BLL_CUSTOMER CUSTNPE CUSTNPE CUSTNPE CNAME DDR1 CUSTYPE CNAME CUSTNY	Field Name * CNTY Field Label DataSource STIM_CUSTOMER Column Name * COUNTRY Data Type * Varchar2 * Item Type Parent Field Related Block Related Field L0V Name LOV_COUNRTY	XSD Tag XSD Annotation Field Size Maximum Length Minimum Value Maximum Value Maximum Decimals TextArea Rows TextArea Columos Default Value		Required Visible Read Only Calender Text Popup Edit Required Uppercase Only LOV Validation Required Input by LOV Only Not Required In Xsd Report Parameter
Cus Cus Cus Cus Cus Cus Cus	Iff Line LOV Name Fieldset Name stom Attributes Events Bind Variables Return Fields Mapping	Return Fields Related Field		Default From Lov Definition
CallForms	Query Column	Block Name	Ret	turn Field Name
CaunchForms	COUNTRY_CODE	BLK_CUSTOMER -	CNTY	
	DESCRIPTION	BLK_CUSTOMER -		-

Use of Bind Variable

If the list of values should be based on any other field value from the screen, bind variables can be used.

Example:

Define lov as shown in below query; where clause should contain condition with '?'.

SELECT cust_ac_no, branch_code, ccy from sttms_cust_account where cust_no = ? and record_stat = 'O'

and once_auth = 'Y' and ac_stat_de_post = 'Y'

In the block field, after selecting return fields, click on bind variables tab. Click on **Default from Lov Definition** button. New rows will be created depending on the number of bind variable provided in the LOV query. Select the bind filed in the screen (and its block) for the LOV. Data type of the field has also to be selected.

Action Last	Function Type Parent		Function Category II			
Fundion Id STDCINE	Parent Function	-	Header Template Non			
Save XML Path D'RADTOOLV	Parent Xml		Footer Template Main			
Contraction of the Contraction of the	22200200					
earch	Block Field Properties					- AI 9
Preferences	* Field Name CUSTNO		* Data Type Varchar2 M		Popup Edit Regd	
DataSource ListOf/alues	Field Label LBL_CUSTNO	142	DataSource STTMS_CUST_C	ROUP	T Required	
LOV_COUNTRY	XSD Tag CUSTNO	10.00	MaxLength 9		P visible	
LOV_ACCOUNT OptaBlocks	Display Type Text 💌		* Field Size		T Input by LOV Only	
BLK_CUSTOMER	item Type Database item 💌		* Column Name CUSTOMER_NO		Calender Text	
CUSTNO	Parent Field		Default Value	1	T Select Multiple	
CTYPE	Related Block		Preview Value		Uppercase Only	
ADORLN1	Related Field		Accessivey Code		P LOV Validation Rept	
COUNTRY	TextArea Rows		TextArea Cols		Thiot Reg to Xtd	
LANG	Min Val		Maxval		C Report Parameter	
TESTT	Max Decimats	3	Maskid	14	E Read Only	
GRPN0	LOV Name LOV_ACCOUNT	1	Off Line LOV Name	~		
CUSTNO	Fieldset Name FST_GROUP		Image Source			
RELATION	States contract the state					
Sovens FieldSets	\square					
Actions .	Custom Attributes Events Bind Variables	Return Fields				
CaliForma	Bind Variables Mapping	Carrier Contract				
Summary				fault from LoV definition	n	
	Block Name		Bind Variable	Detatype		
	ELK_CUSTOMER	×	CUSTNO 💌	STRING		
		<u> </u>	<u> </u>			

Fig 12.23: Defining bind variable for the LOV

4.8 Attaching Call forms

Maintenance Call forms can be attached to a maintenance screen. Refer the document <u>14-</u> <u>Development of Call Form.docx</u> for developing call forms

Attaching Call forms

- Add button to block to launch call form on button click.
 - Right click on Block
 - Select Add fields. Select fields and Add UI field's window will be launched
 - Select UI Fields tab. Click add row button. Enter button name and click ok.
 - Select display type as button and enter field label.

Se	elect F	ields & Add	Ul Fields					×
ī	DataS	ource fields	UI Fields					
		1					+-	l
				Field Name		Data Type		^
	\checkmark	BTM_MIS				-		
								*
							Ok	Cancel

Fig 12.24: Defining Button field

• Add Call form details to Call form node

Action Load +		Function Type Parent	T		on Category Mair		
Function Id STDCIFD		Parent Function			er Template Non		
Save XML Path STDCIFD_RAI	BROWSE	Parent Xml		Fool	er Template Mair	nt Audit 👻	
h	Call Form Details						C
Preferences							
I 🛅 STTM_CUSTOMER				S	creen Arguments	Dependent	Fields+-
E STTM_CUST_GROUP ListOfValues	Function ID	Parent Data Block	Parent DataSource	Relation	Relation Type	Callform Screen	
DataBlocks	MICCUSTM	BLK_CUSTOMER -	STTM_CUSTOMER -	;TTM_CUSTOMER.COSTOMER_NO =	One To One 🔻	•	Button
ADDR1 CNTY NLTY LANG BTM_MIS BLK_GROUP Screens FieldSets Actions CaliForms LaunchForms Summary							

Fig 12.25: Defining details of the Call form to be attached in call form node

- Add event to button.
 - On selecting event type as call form or launch form or sub screen button will be displayed on bottom of the screen.
 - If user needs to place button position in desired place on the screen, event type should be Normal .User has to write code in release specific JavaScript file to launch the screen

Function Generation							_ >
							🚱 🥥 🔿
Action Load -	Fu	nction Type Parent 🔹		Fun	ction Category Mainter	nance 🔻	
Function Id STDCIFD	Pare	nt Function		He	ader Template None	*	
Save XML Path STDCIFD_RAL	BROWSE	Parent Xml		Fo	ooter Template Maint A	udit 🔫	
Search	Block Field Properties					- 2	u a 9
Preferences	Field Name * BTM_MIS Field Label LBL_MIS	×5	XSD Tag XSD Annotation	MIS	2	☐ Required ✓ Visible	
STTM_CUSTOMER STTM_CUST_GROUP STTM_CUST_GROUP	DataSource Column Name *		Field Size Maximum Length	*		Calender	
ListofValues Lov_COUNRTY DataBlocks BLK_CUSTOMER	Data Type * Display Type Text Item Type Control	* *	Maximum Lengur Minimum Value Maximum Value Maximum Decimals			Calender Popup Edi Uppercase LOV Valida	t Required e Only
CUSTNO CUSTTYPE CNAME ADDR1	Parent Field Related Block Related Field	•	TextArea Rows TextArea Columns Default Value			Required Input by LC	OV Only red In Xsd
	LOV Name Off Line LOV Name Fieldset Name		Preview Value Mask Id			n Report Pai	rameter
BLK_GROUP Genes CVS_MAIN	Custom Attributes Events Rela	ated Field				+ -	
	Event Name	Function Name	Event Type Bu	tton Screen	CallForm Name	Screen Name	*
BODY TAB_MAIN	🔽 onunioad 👻		Callform - CVS	_MAIN -	MICCUSTM -	CVS_CUSTOI	
SEC_CUST SEC_SROUP FOOTER FIEldSets Actions LaunchForms Summary							Ŧ

Fig 12.26: Defining event to the button such that call form is linked to the button

• Check the preview.

🔶 Main				×
🗗 New 🔄 <u>Enter Query</u>				
Customer No				
Name Type				
Address				
I	Go to Page		+ - =	
Group Id	Customer No	Relation	<u>^</u>	
			~	
•		III	4	
				_
MIS Change Log				
Maker	[Date Time:		
Checker	[Date Time:		
Mod No	Baa	ord Status	Exi	
ModiNo		ion Status		

Fig 12.27: Preview of the screen with the Call Form button

4.9 Adding Summary

1) Add entry in Preferences node for Summary screen

Preferences DataSource B STTM_CUSTOMER	Fundion Ty Parent Fundi ROWSE Parent X Preferences	ion		Function Category Header Template Footer Template	Maintenance 👻]		VW
Function Id STDCIFD Save XML Path STDCIFD_RAI BF rch Preferences DataSource B _ STTM_CUSTOMER	Parent Functi ROWSE Parent X Preferences	ion		Header Template				
Save XML Path STDCIFD_RAI	ROWSE Parent X Preferences				None 🔻			
Preferences DataSource B STTM_CUSTOMER	Preferences	imi		Footer Template				
Preferences DataSource DataSource				r obter remplate	Maint Audit	•		
DataSource STTM_CUSTOMER								۵
B D STTM_CUSTOMER	Fire Fur	nction	Module	ST	*E			
	🔽 Logging Requir	red	Module Description	Static Maintenance				
STTM_CUST_GROUP	🔽 Auto Authorizati	ion	Branch Program Id					
ListOfValues	🔽 Tank Modificatio	ons	Process Code					
DataBlocks	🔽 Field Log Requ	lired	SVN Repository URL					
BLK_CUSTOMER	🥅 Multi Branch Ac	cess	Transaction Block Name	Choose Block	7			
CUSTTYPE	Excel Export Re	aquired	Transaction Field	Choose Field	•			
			Name					
DDR1								
MLTY					(Control	String	+ -
DANG DEM_MIS	Function Id		Module *	Modu	le Description		0	*
BLK_GROUP	STDCIFD	ST		Static Maintenance				
Creens CVS_MAIN	STSCIFD	ST	×I	Static Maintenance	· · · · · · · · · · · · · · · · · · ·			
TieldSets								
Actions	<u></u>							
CallForms LaunchForms								
Summary								
	Fig 12.27: Adding Su	mmary scro	on dotails in Droforo	ncos nodo				

- 2) Click on Summary Node.
 - Enter Summary title .Select label code from lov.
 - Select Data Block master block and summary blocks will be displayed. Select required block from drop down list.
 - Select Data Source for summary.
 - Select Summary Type.
 - Select Summary Screen size.
 - Enter if any where clause is required.
 - Enter Default order by if required.
 - Enter Multi Branch where clause if required.
 - Attach the fields required in the summary result grid
 - If the field is required as part of filtering, query has to be checked for the particular field
 - Provide the position of fields in Result grid and Summary Query set .

Action Load Function Id STDCIFD Save XML Path STDCIFD_R	AL BROWSE	Function Type Parent Parent Function Parent Xml				Header Te	ategory Maintenance - mplate None - mplate Maint Audit	-	
ch	Summary Details								
Preferences DataSource Gamma STM_CUSTOMER Gamma STM_CUST_GROUP ListOValues DataBlocks DataBlocks BLK_CUSTOMER CUSTNO CUSTNO CUSTYPE	Title Data Blocks Data Source Summary Screen Size	BLK_CUSTOMER STTM_CUSTOMER Summary Medium summary Buttons Fields Ordering	FI		Default Where Clause Default Order By Multi Branch Where Clause Main Summary Screen	WebServic Required	95	000	
CNAME ADDR1 CNTY NLTY LANG		Data Block Fields			Fields Selected	Query	LOV Name		
BTM_MIS					CUSTNO				
) 🛅 BLK_GROUP Screens					CNAME				
E CVS_MAIN			DD		ADDR1			-	
FieldSets Actions			44		CNTY			Ţ	
CallForms				F	NLTY			+	
aunchForms Summary								+	

Summary Preview

Right click on summary node and click on preview.

◆ ₿ Exe	cute Query ᠿ Advance	d Search 🏼 🏟 Res	et 🖵 Clear All							×
	Authorization Status Customer No	•	<u>></u> =		Rec	ord Status	-			
Recor	ds per page 15 👻 📊	🛯 1 of 1 🕨 🔰		2						*
	Authorization Status	Record Status	Customer No	Name	Туре	Address	Country	Nationality	Language	
										E
										-
•									Þ	
									Exit	

Fig 12.29: Summary Screen Preview

4.10 Amendable fields Maintenance

Amendable Fields

If user needs to modify data of a particular field on unlock, in Workbench developer has to maintain fields as amendable.

- Click ACTIONS node.
- Click on Amendables button next to the action for which the field has to be made amendable
- Select the fields in each block which user can modify for the selected action.

Amendable DetailsQUERY X						
Data Blocks	DataBlock Fields					
BLK_CUSTOMER BLK_GROUP	New Allowed Delete Allowed All Records	Mandatory				
	Field Name	Amendable				
	CUSTNO					
	CUSTTYPE					
	CNAME					
	ADDR1					
	CNTY					
	NLTY					
	LANG					
	BTM_MIS					
		Ok Cancel				

Fig 12.30: Maintaining amendable fields

5. Generation and Deployment of files

Generate Files

• Click on generate button select the required files to generate and click on Generate button.

nation		×	Aeta Da	a	Others	
e Re	Error Description quest successfully Processed	Error Code ARD-SAVE-007	Dalasource Details Z LOV Delails Z Block Cretails	Label Details Block PK Columns Function Call Forms Gateway Details	V Xsds Xsd Wilh Annotations V Screen Html Upload Table Trigger	
		0% of DownLoadFile from 10.18		Notification Details	Upload Tables Definition Archive Table Definition	
		File Download	X	irgo Cietails		
		Do you want to open or save this file?		ile Type	Status	
		Name: RAD.ZIF Type: WinRAF	Name: RAD.ZIP Type: WinRAR ZIP archive		Generated	
		From: 10.184.132.100			Generalsd -	
					Generated -	
					Generaled -	
	STDCIFCCVS_MAINTAB_FOOTER html	While files from the Internet can be useful, some files can potentially			Generated	
	sipks_stdoid_main spc	harm your computer	ham your computer. If you do not trust the source, do not open or save this file. What is the risk?		Generalad	
	stpks_sldclfd_kernel.spc		and hare		Generated	
	sipis_stdoid_main sql		SQL.		Generaled	
	stpks_sldclfd_kernel.sql		SOL		Generated	
	CST8_FIELD_LABELSSTOCIFD.INC		INC		Generalsd	
	CSTB_OTHER_LABELSSTDCIFD INC		INC		Generated	
	OSTE FID CALLFORMS STOCIFOLINC		INC		Generaled -	

Fig 12.30: Generation of Files

Deploy files

• Click on deploy button select the required files to deployed to server and click on deploy. On successful deployment status will be displayed as Deployed.

Front-End File	s System Packages	Hook Packages		Meta Data	Othe	ers
RadXML ℤ Screen Xml ℤ System JS	Main Package Spec Main Package Body Notification Triggers Upload Package Spec Upload Package Body	Kernel Package Spec Kernel Package Body Utuster Package Spec Utuster Package Spec Custor Package Spec Custor Package Body	Menu Details Datasource Details Datasource Details DotA Details Screen Details Amendable Details Call form Details S Summary Details	Label Details Details Source Provide the Provided HTML Source Provided HTML Source Provided HTML Source Provided HTML Purge Details	umns Xsd With Annol Forms Screen Html iils Upload Table T etails Upload Tables imeters Archive Table D	Frigger Definition
\$	CSTB_FIELD_LABELSSTDCIFD.INC		1	INC	Deployed *	
ł	CSTB_OTHER_LABELSSTDCIFD.INC		1	INC	Deployed -	
;	CSTB_SUMMARY_INFOSTDCIFD.INC		1	INC	Deployed -	J
	STTB_AUDIT_PK_COLSSTDCIFD.INC		1	INC	Deployed -	
	CSTB_FID_DATA_BLOCKSSTDCIFD.INC		1	INC	Deployed -	
	CSTB_FID_DATA_SOURCESSTDCIFD.INC		1	INC	Deployed -	
	CSTB_FID_SCR_TABSSTDCIFD.INC		1	INC	Deployed -	
0	CSTB_FID_SCREENSSTDCIFD.INC		1	INC	Deployed -	
1	SMTB_MENUSTDCIFD.INC		1	INC	Deployed -	
2	SMTB_ROLE_DETAILSTDCIFD.INC		I	INC	Deployed -	
3	SMTB_FUNCTION_DESCRIPTIONSTDCIFD.INC	>	I	INC	Deployed -]
4	SMTB_FCC_FCJ_MAPPING_STDCIFD.INC		I	INC	Deployed -	L
5	STDCIFD_RAD.xml		F	RADXML	Generated -	

Fig 12.30: Deployment of Files

Testing

- Launch the screen from FLEXCUBE
- Try sample operations on the screen (NEW,MODIFY,QUERY etc)

	□ 66 7 *? ?? (2 - 回 - STDCINF → 22)
Menu 47	💊 Customer Maintenance 💦 🚽 🕹
🗄 61rdlexp_Main_Menu 🔼	
Account Transactions	
🗄 Accounting & MIS	Customer No 000111749 Nationality IN
🗄 Acdscpgr_Main_Menu	Name Demo Cust Language ENG
AcrdItx1_Main_Menu	Type individual Country IN
AcrdItxn_Main_Menu	Corporale
🖶 Acrjrna1_Main_Menu	Rank
Acrpcas1_Main_Menu	Information Message
Acrpfvb1_Main_Menu	
🗄 Acrpmov1_Main_Menu	Group Information Message
Acrpmove_Main_Menu	Record Successfully Saved
Acrreva1_Main_Menu	
🗄 Acrunco1_Main_Menu	
🗄 Aedacitm_Main_Menu	
🗄 Aedbritm_Main_Menu	
🗄 Aedcaitm_Main_Menu	
Aedclitm_Main_Menu	
Aedcontr_Main_Menu	
Aedcsitm_Main_Menu	Ok
Aedcxitm_Main_Menu	
🗄 Aedcyitm_Main_Menu	MIS Change Log
🗄 Aeddeitm_Main_Menu	1413 Cholige Log
Aedfsitm_Main_Menu	Maker 329444 Date Time:
Aedftitm_Main_Menu	Checker 2012-03-01 16 09:09
🗄 Aedfxitm_Main_Menu	Date Time:
🗄 Aedlqitm_Main_Menu	L'attenne.
Aedmaint_Main_Menu	Mod No 1 Record Status Open
🗄 Aedmiitm_Main_Menu	Authorization Status Unauthorized
Aedmsitm_Main_Menu	
Aedpoitm_Main_Menu	
🗄 Aedpditm_Main_Menu	
Aedreitm_Main_Menu	
Aedrfitm_Main_Menu	
Aedsiitm_Main_Menu	
Amrfndhd_Main_Menu	
Amrfunbl_Main_Menu	
Ammoumy Main Menu	
F	Fig 12.30: Saving Record for the function id in FLEXCUBE

6. Generated Units

The following units will be generated for a Maintenance screen.

Refer document <u>*Development_WorkBench_Screen_Development-II.docx</u></u> for detailed explanation on the same</u>*

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, SMTB_ROLE_DETAIL, SMTB_FCC_GCJ_MAPPING are required for the functioning of Maintenance screen

- ii) Lov Details
- iii) Amendable Details
- iv) Label details
- v) Screen Details
- vi) Block details
- vii) Data Source Details
- viii) Call form details
- ix) Summary Details

6.2.2 System Packages

The Main Package contains the basic validations and backend logic for the Maintenance function id. The Main package contains the mandatory checks required. It will also contain function calls to the other packages generated by Workbench.

The main package has the below stages for a maintenance form:

- Converting Ts to PL/SQL Composite Type
- Checking for mandatory fields
- Defaulting and validating the data
- Writing into Database
- Querying the Data from database

• Converting the Modified Composite Type again to TS

Each of these stages has a 'Pre' and 'Post' hooks in the Kernel, Cluster and Custom Packages. And these Hooks are called from the Main Package itself

Main Package has the system-generated code and should not be modified by the developer Kernel, Cluster and Custom Packages are the packages where the respective team can add business logic in appropriate functions using the Pre and Post hooks available

6.2.3 Hook Packages

Release specific packages will be generated based on the release type (KERNEL.CLUSTER or CUSTOM). Developer can add his code in the release specific hook package.

The Main Package has designated calls to these Hook Packages for executing any functional checks and Business validations added by the user. The structure for all the Hook Packages are the same, like:

Fn_Post_Build_Type_Structure Fn_Pre_Check_Mandatory Fn_Post_Check_Mandatory Fn_Pre_Default_and_Validate Fn_Post_Default_and_Validate Fn_Pre_Upload_Db Fn_Post_Upload_Db Fn_Pre_Query Fn_Post_Query

These Functions are called from the Main package using the Pre and Post Hooks available in the Main Package. The 3 Hook Packages namely Kernel, Cluster and Custom Packages have similar structure and are for the respective teams to work on.

6.3 Other Units

6.3.1 Xsd

Xsd 's will be generated if gateway operations are required for the particular function id. Maintenance for the same has to be done in *Actions* node

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 STDCIFD_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.

7.2.1 Functions in Hook Packages

Different functions available in the Hook Package of a Maintenance 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_post_bulid_type_structure If any change has to be made in the field values obtained from the form befor start of processing, code can be written here
- 3) Fn_pre_check_mandatory
- 4) Fn_post_check_mandatory

Any extra mandatory checks on the field values from the screen can be written here.

- 5) Fn_pre_query
- 6) Fn_post_query

Any specific logic while querying can be written in these functions. It is called from fn_query of the main package

- 7) Fn_pre_upload_db
- 8) **Fn_post_upload_db** Any logic while uploading data to tables can be written here .
- 9) Fn_pre_default_and_validate
- 10) 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

7.2.2 Flow of control through Hook packages

The flow of control through the Hook Packages for a particular stage is as explained in the figure below

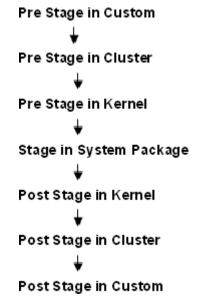
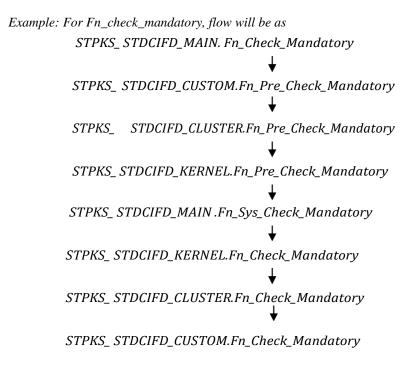


Fig 12.31: Flow of control through Hook Packages



7.2.3 By passing Base Release Functionality

There are auto generated functions like FN_SKIP_<RELEAE_TYPE> which would determine whether or not a particular hooks needs to be called.

Developer also has an option to bypass the base release hook if need be. For example if the validations written in *STPKS_STDCINF_KERNEL.FN_PRE_CHECK_MANDATORY* are not required or not suitable for the Cluster release, system provides an option to bypass the code written by Kernel team. Similarly a Custom release can also bypass the code written by Kernel and Custom Releases. This can be achieved by calling procedures

PR_SET_SKIP_<RELEASE_TYPE> and **PR_SET_ACTIVATE_<RELEASETYPE>**. These procedures will be made available in the main package and the development teams of Customization teams can use these procedures to skip and re-activate the hooks of parent release.

The Developer should avoid adding validations or Checks in the Pre Stage of any function, like Fn_Pre_Check_Mandatory, etc and should aim to add all the validations in the Fn_Post_Default_and_Validate.

For Example let us see the flow for the Mandatory Stage for STDCIFD:

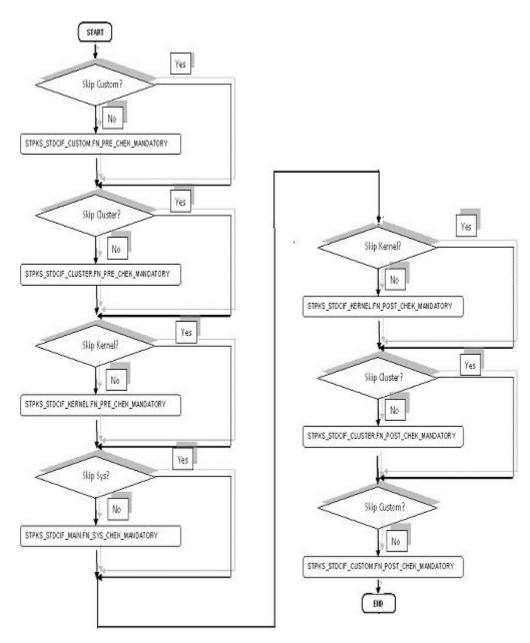


Fig 12.31: Flow of control explaining skip logic in pacakges



Development of Maintenance Form [February] [2024]

Version 14.7.3.0.0

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