Development of Launch Forms and Others Screens Oracle Banking Treasury Management Release 14.5.1.0.0

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# 1. Preface

This document describes the features of a Launch Form and Others Screen in FLEXCUBE and the process of designing these screens 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
Ĩ	_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> <u>15-Development\_of\_Call\_Form.docx</u>

# 2. Introduction

### 2.1 How to use this Guide

The information in this document includes:

- <u>Chapter 2 , "Introduction"</u>
- Chapter 3 , "Launch Forms"
- Chapter 4 , "Others Screen"

## 3. Launch Forms

Launch Forms are nothing but normal screens; which are called from another function id for view data purpose. Launch Forms are used for querying (viewing) the data only; no other processing can be done on launch forms unlike call forms.

Usually, any screen which is used across multiple screens for view purpose is treated as Launch Forms.

Example: Contract Events Screen

*Contract Events screen is used across many contract screens for viewing the events that has got fired for the particular contract. So a single screen can be designed for the same and re used across all contract screens* 

Launch Forms can be launched independently and query operation can be done on the screen independently

## 3.1 Screen Development

Technically Launch Forms are the same as normal maintenance or transaction screens. There is no difference in development of a launch form from a maintenance or transaction screen.

Launch forms can be designed as of type

i) Maintenance

ii) Transaction

Note that a maintenance launch form can be used if it is invoked from maintenance screens and similarly for transaction launch forms.

Naming Convention:

Launch Form is nothing but a normal function Id. So it has to follow the same naming convention as any other detail screen. Third letter has to be 'D' and it should have 8 characters.

Example: CSDEVENT, CSDACCNT are valid names for a Launch Form screen

Menu details has to be provided for the Launch form screen as it is a an independent screen . Entries has to be present in *smtb\_function\_description* unlike Call Forms

Function Generation		_ >
		🖬 🗷 🗏 🐬 🥞 🔿
Action Load  Function Id CSDEVENT Save XML Path CSDEVENT_F	Function Type Parent  Parent Function BROWSE Parent Xmt	Function Category Transaction   Header Template None   Footer Template None
Search	Data Source Details	+ <b>-</b> 🔊
<ul> <li>Preferences</li> <li>DataSource</li> <li>CSTBS_CONTRACT</li> <li>CSTBS_CONTRACT_EVENT_LO</li> <li>LISTOPALES</li> <li>LISTOPALES</li> <li>DataBlocks</li> <li>Screens</li> <li>FieldSets</li> <li>Actions</li> <li>CaliForms</li> <li>LaumchForms</li> <li>Summary</li> </ul>	Multi Record No  PK Cols * CONTRACT_REF_NO	Parent Relation Where Clause Default Order By Type Mandatory

Fig 3.1 A Launch Form function Id showing master Data Source Properties

Refer documents on screen development, development of maintenance and transaction screens for designing a Launch Form screens.

#### **Screen Arguments:**

#### Screen Arguments has to be maintained for the main screen of the launch form.

Launch Forms are used only for querying data. Hence ACTION\_CODE has to be passed as a screen argument with argument value as EXECUTEQUERY and the Primary Key values for querying in launch Form screen should be passed as the other parameters

Function Generation						× =	-
Action Load + Function Id CSDEVENT Save XML Path CSDEVENT_F	Parent	tion Type Parent   Function arent Xml		Function Category Header Template Footer Template	Transaction 👻		ru
Search Preferences DataSource DataSource DataBlocks DataBlocks CVS_EVENTS	Screen Details         CVS_EVENT           Screen Name         CVS_EVENT           Screen Title         LBL_MAIN           Screen Size         Large           Exit Button Type         Default Can		I Main Screen I Visible			- A	1 🗖 🔊
Actions     CallForms     LaunchForms     Summary	CONTREF ACTION_CODE	Source Block Source Field	Argument Value	Target Block	Target Field       REFNO ▼       ▼	Active       Yes ▼       Yes ▼	

Fig 3.2 Defining Screen arguments for Launch Form Main Screen

Summary screens if required can be designed for the launch form screen

#### 3.2 Generated units

All the units for a normal maintenance or transaction screen will be generated for a Launch Form screen as well.

Note the following while deploying units for Launch Forms

 Entry has to made manually in CSTB\_CALL\_FORM\_NODES for the launch form. Script won't be generated by the Tool while designing the Launch Form. Hence it has to inserted manually providing the screen arguments as maintained for Launch Form main screen

Screen arguments has to be inserted in SCREEN\_ARGS column of CSTB\_CALL\_FORM\_NODES separated by tilde (~)

## 3.3 Attaching Launch Form to the Main Function Id

Launch Forms has to be attached to the main function Id in Launch Form Node

Function Generation		_ ×
		🖫 🗵 🗏 🐬 🍓 🔿
Action Load  Function Id STDCIF Save XML Path STDCIF_RAD.	Function Type Parent  Parent Function ROWSE Parent Xml	Function Category Maintenance  Header Template None  Footer Template Maint Audit
Search	Launch Form Details	۵) (۵)
Preferences DataSource DataSource DataSlocks DataBlocks DataBlock	Function ID CSDEVENT	Screen Arguments +
CaliForms	MSDAMLMSG CSDHGVW	Yes - Yes -
Summary		Yes V

Fig 3.3 Attaching Launch forms to a Function Id

Screen Arguments has to be passed from the main function Id to the Launch Form screen

Action Load + Function Id STDCIF	Function Type Parent Parent Function		Function Category Mainle Header Templale None	
Save XML Path STDCIF_RAD.	BROWSE Parent Xml		Fooler Template Maini	Audil 👻
	Launch Form Details			
Preferences				
)alaSource .istOfValues				Screen Arguments + -
DataBlocks		Function ID		Active
Screens	CSDEVENT			Yes *
ieldSels ctions				Yes +
allForms				
aunchForms	CSDHGVW			Yes 👻
Summary	CSDFTDUP			Yes *
		Populate   Re	eset	
	Argument Name Source Block	Source Field Argument Value	1	
	KYC_REF_NO BLK_CUSTCORP -	KYCREFNO -		
	ACTION_CODE -	▼ EXECUTEQUERY		
		Ok Can	icel	

Fig 3.4 Passing Screen Arguments to Launch Form

Launch forms can be launched by clicking on button placed in the main screen.

Button events have to be maintained such that Launch Form will be launched on clicking it.

Refer Launch Form section on 04-Development\_WorkBench \_Screen\_Development-I.docx for detailed explanation

## 3.4 Extensible development

Developer can add his code in hook packages and release specific JavaScript file. This is similar to any other Maintenance or Transaction screen.

Any enhancements or change in query logic for the screen can be code in **fn\_post\_query** of the Hook package of the particular release

# 4. Others Screens

If the developer does not want to use the business logic provided by the ODT generated code, he can create the function Id with function type as OTHERS.

In the generated package, code will handle only parsing the Ts list to composite PL/SQL type and vice versa. No other processing logic would be provided by the code. Developer has to write the whole business logic in hook packages.

This can be useful when developer wishes to reduce unnecessary code in main package. *For example: Batch function Ids* 

Function Id's for processing a batch can designed as an OTHERS screen. No conventional actions (NEW, SAVE, MODIFY etc) is required for a batch processing screen; only batch processing will need to be done. This can be handled better by designing the screen as OTHERS and write the batch processing logic in the Hook packages

## 4.1 Screen Development

Screen development for an Others screen is similar to a normal maintenance function id

#### Naming Convention:

Others screen should adhere to the same naming convention as a normal maintenance function id. Name of the function id should be of 8 characters and third letter should be 'D'

#### **Function Type**:

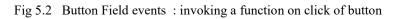
Function Type has to be selected as OTHERS

Function Generation				-
				🖫 🗶 🗏 🕼
Action Load	Function Type Parent	<b>v</b>	Function Category Maintenar	ice 🔻
Function Id STDCSNET	Parent Function		Header Template None	•
Save XML Path STDCSNET_F	BROWSE Parent Xml		Footer Template None	•
Search	Block Field Properties			- 🛛 🗖 🌍
Preferences DataSource DataSource DataSource DataSource DataSource DataSource DataBolocks DataBolocks DataBolocks DataBolocks DataBolock DataB	Field Name • GROUPCD Field Label LBL_GRPCD Field Label LBL_GRPCD Field Label Column Name • GROUPCD Field Type • Varchar2 • Text	XSD Tag XSD Annotation Field Size * Maximum Length Minimum Value Maximum Value Maximum Value Maximum Decimals TextArea Rows TextArea Columns Default Value	GRPCD	Required     Visible     Read Only     Calender Text     Popup Edit Required     Uppercase Only     LOV Validation     Required     Input by LOV Only     Not Required In Xsd     Report Parameter
CalForms CalForms CalLounchForms CalCounchTorms	Off Line LOV Name Fieldset Name FST_GROUP Custom Attributes Events Bind Variables Return	Preview Value     Mask Id     Fields Related Field     Attribute Value	Active Posit	tion A

Fig 5.1 Maintaining Block Field Properties

Normally user defined actions would be used in an OTHERS screen .These actions are invoked on click of the buttons placed in the screen.

Function Generation				-
				🖫 🗶 🗏 7 🍯 4
Action Load 👻	Function Type Parent		Function Category Maintenar	nce 🔻
Function Id STDCSNET	Parent Function		Header Template None	•
Save XML Path STDCSNET_F	BROWSE Parent Xml		Footer Template None	•
Search	Block Field Properties			- x 🟹 🌍
Preferences DataSource DataSource DataSource DataSource DataBlocks DataBlocks DataBlocks DataBlocks DataBlocks DataCh GROUPCD DESCR TXNCD BRANCH COUNT BRANCH GTU_BATCH GSCreens DataBlocks Adions CallForms	Field Name + BTN_BATCH Field Label LBL_PROCESS +E DataSource Column Name + Data Type + Uisplay Type Item Type Parent Field Related Field LOV Name Off Line LOV Name	XSD Tag PROCESS XSD Annotation Field Size *		Required     Visible     Read Only     Calender Text     Popup Edit Required     Uppercase Only     LOV Validation     Required     Input by LOV Only     Not Required In Xsd     Report Parameter
🧀 LaunchForms 🦳 Summary	Fieldset Name FST_BTN Custom Attributes Events			
	Event Name Function Name	Event Type Button Screen	CallForm Name	Screen Name
	✓ onclick      ✓ fn_batch()	Normal   CVS_MAIN	Californi Name	Scieen Name



◆ Netting Group Batch Processing					
🖹 New 🦻 Enter Query					
Group Code Description		Branch			
Number of Un-netted Entries	Process				
				Exit	

Fig 5.3 Preview of the batch processing screen

## 4.2 Generated units

All the units for a normal maintenance or transaction screen will be generated for a Launch Form screen as well.

## 4.3 Extensible development

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

This is similar to any other Maintenance or Transaction screen.

#### Coding in JavaScript:

Custom action codes defined by the developer are defined in the JavaScript file. It is usually defined on click of a button .The action code is defined and the request xml is built and passed to the server.

These codes are written in release specific JavaScript file

Example: Figure below shows a snippet from STDCSNET\_CLUSTER.js Notice the *fn\_batch* () which is invoked on clicking of the *Process* button.

```
function fn_batch()
{
    appendData();
    gAction = 'NET_BATCH';
    fcjRequestDOM = buildUBSXml();
    fcjResponseDOM = fnPost(fcjRequestDOM, servletURL, functionId);
    var msgStatus =getNodeText( selectSingleNode(fcjResponseDOM, "FCUBS_RES_ENV/FCUBS_HEADER/MSGSTAT"));
    if (!fnProcessResponse()) {
        return true;
    }
}
```

Fig 5.4 Code Snippet from STDCSNET\_CLUSTER.js

Here action code is set as 'NET\_BATCH' and request xml built and passed to the server and response processed based on response xml

#### Coding in Packages:

Developer can write the business logic in *fn\_main* which will be present in the release specific hook package

Skip Handlers can be used to skip the code in any previous release stages if required.

Processing logic has to be written for the user defined action codes in the release specific hook package

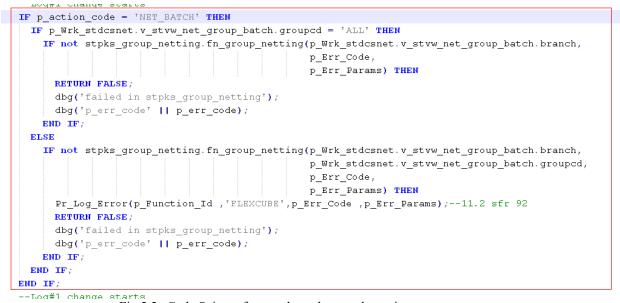


Fig 5.5 Code Snippet from stpks\_stdcsnet\_cluster.js

The above figure shows the handling for the user defined action code 'NET\_BATCH' in *fn\_main* of stpks\_stdcsnet\_cluster.sql



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