Development Workbench Gateway and LOV Enhancer Oracle Banking Treasury Management

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1 Preface

This document describes the process of FLEXCUBE Screen Development using Enterprise Limits and Collateral Management Development Workbench.

1.1 Audience

This document is intended for FLEXCUBE Application developers/users that use ODT 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 Object Naming conventions	Development Overview Guide
Working knowledge of Web based	Self Acquired
applications	
Working knowledge of Oracle Database	Oracle Documentations
Working knowledge of PLSQL & SQL	Self Acquired
Language	
Working knowledge of XML files	Self Acquired
Essential knowledge on FLEXCUBE	02-ODT Administration.docx
ODT	03-ODT Getting Started.docx

1.2 Related Documents

04-Development_WorkBench_Screen_Development-I.docx

2 Overview of Gateway Screen Development for Oracle FLEXCUBE

Oracle FLEXCUBE ODT provides the developer with a user friendly console for designing and developing screens for Oracle FLEXCUBE.

ODT assist developers in designing screens with the capability of generating front end scripting files, PL/SQL Packages, Static data scripts, XSDs, Excel templates and html files. This generated code performs validations and does some processing which is common across screens in FLEXCUBE; only the Business logic specific to the screen has to be added by the Developer in back end and front end units.

Example

Release Name: FC 12.1

Release Type: KERNEL, CLUSTER, CUSTOM

ODT will generate all files and developers are supposed to add the business logic in designated units depending on the Release Type.

2.1 Radxml

ODT saves all the activities carried out by the developer in an xml file hereby referred to as **radxml**. Persistence of the screens is achieved through radxml. All the units required for the working of a screen can be generated from its radxml.

If some changes are required on the screen in a future release, the same radxml can be loaded and changes can be done on this radxml. ODT can segregate the changes done on different releases and saves the radxml accordingly.

Radxml will adhere to following naming convention

Function Id name + _RAD.xml

Example: STDCULND_RAD

2.2 Design Steps

Sequence of Steps to be followed while developing a screen in ODT is:

1. Identifying the data sources and their relations

- 2. Logically grouping the data sources into Data Blocks
- 3. Designing Screen Layout
- 4. Logically grouping the Block Fields into Field sets
- 5. Attaching Call forms and launch forms if any
- 6. Defining Actions

Refer respective sections for detailed explanation of each step

Saving Radxml

While Development, save radxml at constant intervals. Click on save icon in the top right for having the work. Radxml would be saved in the user directory maintained

2.2.1 Design Process:

Click on Function Generation node in the browser tree found in the Landing page of ODT. Function Generation Page window gets launched.

While creating a new function in Function Generation page in ODT, below information needs to be provided in the Header section

The Header portion of the Function Generation Page screens consists of the following fields:

2.2.2 Action

New and Load options are provided for this field.

For a new screen development, select the action as New; if an existing screen radxml has to be loaded for customization select Load option

If the action is load then corresponding radxml has to be loaded using browser option in Save Xml Path; all the header information will get populated.

2.2.3 Function Id

If the Action is selected as New, the function Id name needs to be specified. Function Id is the unique name with which a screen is identified.

Function Id name should follow the FLEXCUBE standard naming convention.

- Function Id name to have maximum length of 8 characters
- For detail screens the third character should be 'D'
- For report screens the third character should be 'R'
- For call form function ids the third character should be 'C'
- First 2 characters should specify the module name for which the particular function id is used (recommended).

2.2.4 Save Xml Path

The label description of the field will change depending on the action .If the action is load, ODT attaches a Browse button to it so that user can browse the radxml and load it.

2.2.5 Gateway Specific changes

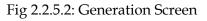
Design of screen will be as any other normal maintenance screen, only change with in preference user has to select the screen as gateway. Below mentioned screen will help in better understanding.

runcuon ocneruuon				- ^
				🔚 🗙 L C 🎸 🤮 🤿
Action New Function Id STDC001 Save XML Path	Function Type Parent Parent Function Parent Xml		Function Category Maintenance V Header Template None V Footer Template None V	
Search	Preferences			× 🗸
Proferences DataSource LEISO/Talues DataBlockis Screens FeluSdis Actions Califorms LaunchForms LaunchForms Summary	Head Office Function opping Required Muthorization Authorization and and and and Muthorizations and Muthorizations and Muthorizations and Muthorizations And _	Module Module Description Module Group Branch Program Id Process Code SVN Repository URL		
				Control String +
	Function Id STDC001	Module *	Module Description	

Fig 2.2.5.1: Preferences Screen

Once gateway screen checkbox is selected then in generation screen only front-end units, xsd's and INC's will only be generated. Below screen shows generation screen.





User has to generate the above selected units and has to deploy in FCUBS. Code has to be written in gateway flow to make this screen work. For generation and design please use 04-Development_WorkBench_Screen_Development-I.docx.

3 Overview of LOV Enhancer

Lov Enhancer is used to map Lov's of Screens to External or Combined Lovs.

3.1 External Lov

Lov of a screen is mapped to External Lov. Where all the data populated and data fetched in the lov will be from external system. User has to simply select the lov as External in the screen. Below screen will help in better understanding.

_				Populate	Combined Details
]		Lov Id		Internal/External/Combined	~
	LOV_ACCOUNT		External V		
	LOV_ACCOUNT_OFF		External 🗸		
	LOV_ADDRESS_CODE				
	LOV_AML_CUST_GRP		Internal 🗸		
]	LOV_AMTCCY1		Internal 🗸		
]	LOV_BUSINESS_ACT		Internal V		
]	LOV_CHG_GRP		Internal V		
]	LOV_CHKLST		Internal 🗸		
	LOV_CLG_GRP		Internal 🗸		
]	LOV_CLSCCY		Internal 🗸		
]	LOV_ALG_ID		Internal V		
]	LOV_BIC		Internal 🗸		
]	LOV_COLLATERAL_TYPE		Internal V		
]	LOV_COUNTRY		Internal 🗸		
]	LOV_CREDIT_RATING		Internal 🗸		
]	LOV_CURRENT_EMPLOYER		Internal 🗸		
]	LOV_CUSTPREFIX1		Internal 🗸		
]	LOV_CUSTPREFIX2		Internal 🗸		
]	LOV_CUST_CAT		Internal 🗸		~
					Generate Close

Fig 3.1.1: Lov Enhancer Screen External

3.2 Combined Lov

User can use combination of lovs from external and internal. Where we will provide details of external Lov's bind variable and reduction field details. Please check the below screen.

v Details					Ī	Populate	Comt	ined Det	ails
LOV Name LOV_AML_CUST_GRP Function ID Name STDCIF			Internal/E	xternal/C	benidme				1
r dictor i b ranc		klernal 🗸							
LOV Function Name fn_function()		Sitemal 🗸							
		nternal 💉							
tion Fields Bind Variables	Image: Low Ext_AML_CUST ame In_function() Mapping Bind Variables Mapped Iternal v								
		nternal 🗸							
Bind Variables Mapping		nlernal 🗸							
Bind Variables Available Bind	d Variables Manned	nternal 🗸							
		nternal 🗸							
DIND I		nternal 🗸							
		nternal 🗸							
		nlernai 🗸							
44									
	Function Name Internal Internal Combined Internal Combined Variables Mapping Bind Variables Mapped Bind Variables Mapped Bind Variables Mapped Iternal Iternal <t< td=""></t<>								
									close
	Ok Cance								
	OK CUIEC								
		tlemai 🗸							
							Ge	nerate	Clos

Fig 3.2.1: Lov Enhancer Screen Combined

Here user will provide details for external LOV.

When generated after the modifications, INC will be generated with below kind of data

```
UPDATE CSTB_LOV_INFO SET LOV_TYPE = 'E' WHERE FUNCTION_ID='STDCIF' AND LOV_ID IN ('LOV_ACCOUNT','LOV_ACCOUNT_OFF')
```

/

```
UPDATE CSTB_LOV_INFO SET LOV_TYPE = 'C' WHERE FUNCTION_ID='STDCIF' AND LOV_ID IN ('LOV_AML_CUST_GRP')
```

/

DELETE CSTB_CMB_LOV_INFO A WHERE A.FUNCTION_ID IN ('STDCIF');

INSERT INTO CSTB_CMB_LOV_INFO (FUNCTION_ID, LOV_ID, EXTERNAL_LOV_ID, LOV_FUNCTION, REDUCTION_LIST, BIND_LIST) VALUES ('STDCIF','LOV_AML_CUST_GRP','LOV_EXT_AML_CUST','fn_function()','','1~')

/

COMMIT;

nformatio	on Description	Information Code					Po	pulate	Combined D	etails
7 File S	aved				Inter	Internal/External/Combined				
				External 🗸						
				External 🗸						
				Internal 🗸						
				Internat 🗸						
				Combined V						
		Ok		Internat 🗸						
	LOV_BUSINESS_ACT			Internal V						
	LOV_CHG_GRP			Internat 💉						
	LOV_CHKLST			Internal 🗸						
	LOV_CLO_GRP			Internat 🗸						
	LOV_CLSCCY			Internal 🗸						
	LOV_COLLATERAL_TYPE			Internal 🗸						
	LOV_COUNTRY			Internal 💉						
	LOV_CREDIT_RATING			Internal 🗸						
	LOV_CURRENT_EMPLOYER			Internal 🗸						
	LOV_CUSTPREFIX1			Internal 🗸						
	LOV_CUSTPREFIX2			Internal 🗸						
	LOV_CUST_CAT			Internat 🗸						×
									Generate	Close

Fig 3.2.3: Generation Screen



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