

Oracle® Banking Enterprise Limits and Collateral Management

Development Workbench- Screen Development II



Release 14.7.5.0.0

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ORACLE®

Oracle Banking Enterprise Limits and Collateral Management Development Workbench- Screen Development II,
Release 14.7.5.0.0

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Contents

1	Preface	
1.1	Purpose	1-1
1.2	Audience	1-1
1.3	Documentation Accessibility	1-1
1.4	Critical Patches	1-2
1.5	Diversity and Inclusion	1-2
1.6	Basic Actions	1-2
1.7	Related Documents	1-3
1.8	Conventions	1-3
1.9	Screenshot Disclaimer	1-3
1.10	Acronyms and Abbreviations	1-3
1.11	Symbols and Icons	1-4
1.12	Prerequisite	1-5
2	Generate Files	
3	Deployment	
3.1	Deploy Files	3-2
4	Release	

1

Preface

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Basic Actions](#)
- [Related Documents](#)
- [Conventions](#)
- [Screenshot Disclaimer](#)
- [Acronyms and Abbreviations](#)
The list of the acronyms and abbreviations used in this guide are as follows:
- [Symbols and Icons](#)
The lists of symbols, buttons and shortcut key that are used in the application to perform various tasks are covered in this topic.
- [Prerequisite](#)

1.1 Purpose

This guide is designed to help acquaint you with the Oracle Banking Enterprise Limits and Collateral Management (ELCM) application. This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

User can further obtain information specific to a particular field by placing the cursor on the relevant field and pressing <F1> on the keyboard.

1.2 Audience

This guide is intended for the following User/User Roles:

Table 1-1 Audience

Role	Function
Back office data entry clerk	Input functions for funds
Back office managers/officers	Authorization functions
Product Managers	Product definition and authorization
End of day operators	Processing during end of day / beginning of day

1.3 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

1.4 Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches](#), [Security Alerts and Bulletins](#). All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

1.5 Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

1.6 Basic Actions

Table 1-2 Basic Actions

Action	Description
Approve	Used to approve the initiated report. This button is displayed, once the user click Authorize .
Audit	Used to view the maker details, checker details, and report status.
Authorize	Used to authorize the report created. A maker of the screen is not allowed to authorize the report. Only a checker can authorize a report, created by a maker.
Close	Used to close a record. This action is available only when a record is created.
Confirm	Used to confirm the performed action.
Cancel	Used to cancel the performed action.
Compare	Used to view the comparison through the field values of old record and the current record. This button is displayed in the widget, once the user click Authorize .
Collapse All	Used to hide the details in the sections. This button is displayed, once the user click Compare .
Expand All	Used to expand and view all the details in the sections. This button is displayed, once the user click Compare .
New	Used to add a new record. When the user click New , the system displays a new record enabling to specify the required data.

Table 1-2 (Cont.) Basic Actions

Action	Description
OK	Used to confirm the details in the screen.
Save	Used to save the details entered or selected in the screen.
View	Used to view the report details in a particular modification stage. This button is displayed in the widget, once the user click Authorize .
View Difference only	Used to view a comparison through the field element values of old record and the current record, which has undergone changes. This button is displayed, once the user click Compare .
Unlock	Used to update the details of an existing record. System displays an existing record in editable mode.

1.7 Related Documents

For more information refer to the Oracle Banking manuals on:

- Development of Launch Forms and Others Screens
- Enterprise Collaterals User Guide
- Enterprise Limits and Collaterals Common User Guide

1.8 Conventions

The following text conventions are used in this document:

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

1.9 Screenshot Disclaimer

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

1.10 Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

Table 1-3 Acronyms and Abbreviations

Acronyms	Abbreviations
CIF	Customer Information File

Table 1-3 (Cont.) Acronyms and Abbreviations

Acronyms	Abbreviations
CASA	Current Account and Savings Account
DDA	System that holds the CASA account and balances
ELCM	Enterprise Limits and Collateral Management
ECA	External Credit Approval
FCUBS	Oracle FLEXCUBE Universal Banking Solution
GW	Gateway
HTTP	Hyper Text Transfer Protocol
ID	Identification Number
Mark EOTI	Mark End of Transaction Input
Mark TI	Mark Transaction Input
OFSA	Oracle Financial Services Analytical Applications
ORMD	Oracle Revenue and Billing Management
PK	Primary Key
RDBMS	Relational Data Base Management System
SMS	Security Services
UI	User Interface
VD	Value Date
XML	Extensible Mark-up Language
XSD	XML Schema Definition
XSLT	Extensible Stylesheet Language Transformations

1.11 Symbols and Icons

The lists of symbols, buttons and shortcut key that are used in the application to perform various tasks are covered in this topic.

Table 1-4 Symbols and Icons

Icons	Function
	Perform search
	Minimize
	Navigate to the next record
	Navigate to the previous record
	Toggle OFF
	Toggle ON
	Delete
	Click this icon to add a new row.

Table 1-4 (Cont.) Symbols and Icons

Icons	Function
	Click this icon to delete an existing row.
	List view
	Maximize
	Navigate to the first record
	Navigate to the last record
	Advance search
	Search record
	Save the record
	Reset the record
	Clear the record

Table 1-5 Symbols and Icons - Audit Details

Icons	Function
	A user
	Branch details
	Date and Time

1.12 Prerequisite

Specify the **User ID** and **Password**, and login to **Home** screen.

2

Generate Files

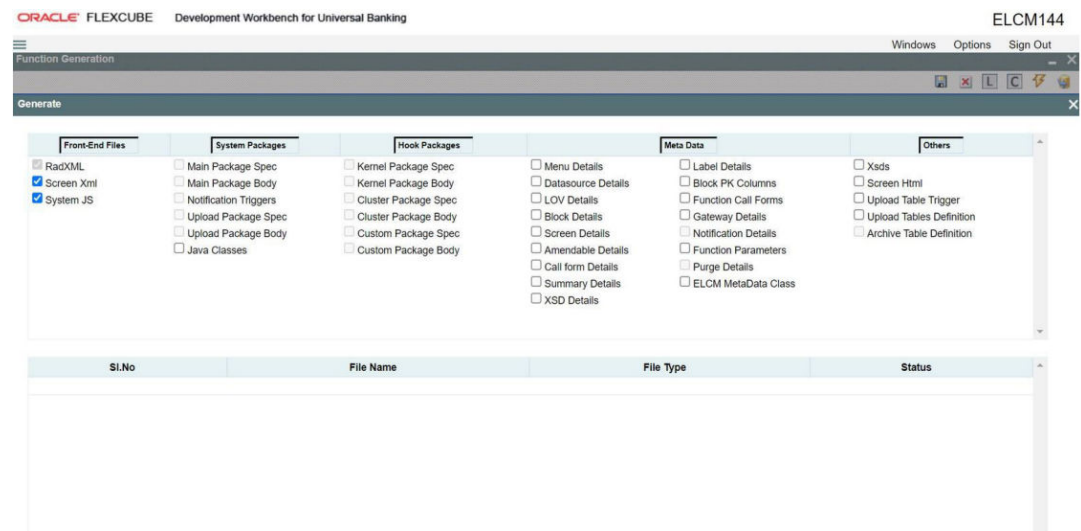
This topic explains the systematic instructions to generate files from the development workbench.

1. On the **Function Generation** screen, click on the **Launch** icon to generate the files.

Generation of the screen has to be done after the design of the screen is completed. Refer [Management ODT Screen Development](#) for a detailed explanation of on-screen development.

The **Generate** window displays.

Figure 2-1 Generate



Development Workbench generates files as shown in the figure above. For action New, Workbench automatically selects all files. If function ID has been loaded, then hook packages will not be checked.

Table 2-1 Front-End Files

Field	Description
RADXML	This file contains the Data Used to Design screen. Radxml is Input to Workbench. File Name : <Function_ID>_RAD.xml
Screen Xml	This file is an XML markup of presentation details, for the designed Function ID specific to a language. XSL Transformation is applied to this XML file by linking it to an XSL file. This results in HTML Markup which is displayed by the browser. File Name : <Function_ID>.xml

Table 2-1 (Cont.) Front-End Files

Field	Description
System JS	This JavaScript file mainly contains a list of declared variables used by FLEXCUBE Infra. • msgxml: This variable is used by the system to build FCUBS Request XML. • dataSrcLocationArray: This variable is an array of DATA BLOCKS. • relationArray: This array contains relation and relation type details of blocks. This is used for data binding. • retflds and bndFlds: These arrays contain LOV information. • CallFormArray, CallFormRelat, CallRelatType: These arrays contain call form details, call form relation, and relation type. • actionsAmmendArray: This array contains information for enabling fields based on actions. File Name : <Function_ID>_SYS.js
Release Specific JS	 Note: Release Specific JavaScript File will not be generated by Workbench. This file, if required, has to be created by the developer. This JavaScript file allows the 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 KERNEL release would add functions based on two categories: • Functions triggered by screen loading events Eg: fnPreLoad_KERNEL(),fnPostLoad_KERNEL() • Functions triggered by screen action events Eg: fnPreNew_KERNEL (),fnPostNew_KERNEL () A developer working in CLUSTER release would add functions based on two categories: • Functions triggered by screen loading events Eg: fnPreLoad_CLUSTER(),fnPostLoad_CLUSTER() • Functions triggered by screen action events Eg: fnPreNew_CLUSTER (),fnPostNew_CLUSTER () In case if any function in KERNEL JavaScript file has to be modified, this can be achieved by overriding the function in CLUSTER JavaScript file. The functions in this file are generally triggered by screen events. A developer working in CUSTOM release would add functions based on two categories: • Functions triggered by screen loading events Eg: fnPreLoad_CUSTOM(),fnPostLoad_CUSTOM() • Functions triggered by screen action events Eg: fnPreNew_CUSTOM (),fnPostNew_CUSTOM () In case if any function either in the KERNEL JavaScript file or CLUSTER JavaScript file has to be modified, this can be achieved by overriding the respective function in the CUSTOM JavaScript file. File name: <Function_ID>_<RELEASE_TYPE>.js

Table 2-2 System Packages

Field	Description
Main Package Specification	The Main Package Spec Contains all the Declarations.
Main Package Body	The main Package would contain all the business logic and persistence code for the functioned. It will also contain call-to-hook packages. Different flavors of the main Package generated are: a. Maintenance FunctionId b. Transaction FunctionId c. Others Category FunctionId d. Report Parameter Screen e. Notification f. Purge Entity The main package has the below stages in case of a maintenance function: • 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 Pre and Post hooks in the Release Specific Packages.  Note: Main Package has the system-generated code and should not be modified by the developer.
Upload Package Specification and Upload Package Body	Upload Packages would support adapter upload flow of any Function ID. The package will contain code to convert upload table data to function id specific PL/SQL composite type. The main package of the functioned would be called to upload the data.
Notification Triggers	This will be generated only for notification trigger screens. Refer Development Workbench - Notifications for further reference.

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.

Table 2-3 Hook Packages

Field	Description
Kernel Package Spec and Kernel Package Body	The Kernel package is solely for the Kernel Team to modify. The Main package has designated calls to the Kernel package for executing any functional checks or validations included in the Kernel Package. All the user level validations and conditional operations should be included in Fn_Post_Default_and_Validate . This function is called from the Main Package after the execution of Fn_Default_and_Validate . The user should avoid putting validations or code in any other function. In case the user needs to add a separate function, the existing Workbench generated structure should not be changed. Instead, the user can create a new package. For Example: <MODULE>PKS_<FID>_UTILS package. The desired function can be included in this package and the call can be made from the Kernel Package.
Cluster Package Spec and Cluster Package Body	The Cluster package is available to the Cluster Team to add any validations or Checks specific to the Cluster Team over and above the Kernel Team. The Kernel Team or the Custom Team should not modify the contents of this package.
Custom Package Spec and Custom Package Body	The Custom package is available to the Custom Team only to add any validations or Checks over and above those already present in the Kernel and Cluster Packages.

Workbench generates INC files that contain insert scripts. These are static data required for the functioning of the function id. The developer needs to deploy generated INC's in FLEXCUBE schema.

Table 2-4 Meta Data

Field	Description
Menu Details	Under menu Details below 4, table entry Insert Scripts will get generated. • SMTB_MENU • SMTB_FUNCTION_DESCRIPTION • SMTB_ROLE_DETAIL • SMTB_FCC_FCJ_MAPPING If any one of the table entry missing while designing a new function ID, FLEXCUBE won't allow launching function ID.
Data source Details	Generates INC for CSTB_FID_DATA_SOURCES . This data is required for uploading data to FLEXCUBE for the function id through excel.
Lov Details	Generates INC for CSTB_LOV_INFO . FLEXCUBE will be using this information to get data for the List of values provided on the screen.
Block Details	Generates INC for CSTB_FID_DATA_BLOCKS . This data is required for uploading data to FLEXCUBE for the function id through excel.
Screen Details	Generates INC for CSTB_FID_SCREEN .

Table 2-4 (Cont.) Meta Data

Field	Description
Amendable Details	Generates INC for the below table. These scripts provide information regarding the amendable fields on the screen. Entry has to be present for the required field in these tables to make that field amendable through FLEXCUBE and gateway operation. • GWTM_AMEND_MASTER • GWTM_AMEND_NODES • GWTM_AMEND_FIELDS • GWTB_AMEND_NODES • GWTB_AMEND_FIELDS
Call form Details	Generates INC for CSTB_CALL_FORM_NODES . These will be generated only if the screen is a Call Form. It is required for attaching the particular Call form to any other function id.
Summary Details	Generates INC for CSTB_SUMMARY_INFO . Data in this table is required for fetching records in the summary screen of the particular function id.
Label Details	Generates INC for CSTB_FIELD_LABELS and CSTB_OTHER_LABELS. Labels can be used for Language translation of screens. These scripts provide information regarding the label codes attached to each field. These are useful while developing language packs for Oracle FLEXCUBE Universal Banking. • CSTB_FIELD_LABELS : Contains Field Label details. • CSTB_OTHER_LABELS: Contains SCREEN, TAB, FIELDSET, BLOCK, etc label details.  Note: that Workbench does not generate scripts for CSTB_LABELS. Data in CSTB_LABELS is maintenance required for the Tool.
Block Pk Columns	Generates INC for STTB_AUDIT_PK_COLS .
Function Call Forms	Generates INC for CSTB_FID_CALLFORMS . This data is required for uploading data to FLEXCUBE for the function id through excel.
Gateway Details	Generates INC for the below tables. Data in these tables are required for gateway operations (web services) for the particular screen. • GWTM_FCJ_FUNCTIONS • GWTM_OPERATIONS_MASTER
Notification Details	Generates INC for the below tables. Notification INCs will get generated only for Notification screens. • GWTM_NOTIFICATION_TRIGGERS • GWTM_NOTIFICATIONS_MASTER
Function parameters	Generates INC for the below tables. This INC gets generated only for Reports screens (i.e. Function Category – Report). • AETB_FUNC_MASTER • AETB_FUNC_DETAIL

Table 2-4 (Cont.) Meta Data

Field	Description
Purge Details	Generates INC for the below tables. These scripts will be generated only for Purge Entity Definitions screens. • STTM_PURGE_MASTER • STTM_PURGE_TBL_DETAILS • STTM_PURGE_FILTERS

Table 2-5 Others

Field	Description
Xsds	The XSD files are used for the creation of XMLs, which are in turn used during the execution of operations through Gateway.
Screen html	The HTML files are used to take screenshots by converting them to images, which are in turn used for Document preparation.
Upload Table Trigger	Trigger will be generated for inserting records into adapter upload process tables (CSTB_EXT_CONTRACT_STAT , STTB_UPLOAD_MASTER) from upload tables.
Upload Table definition	DDL for upload tables would be generated. If existing upload tables are being re-used, the generated DDL's can be ignored.
Archive Table definition	DDL for archival tables would be generated for Purge Entity Radxml. Synonyms for the tables would also be generated.

 Note:

For the new screen, all file options will be checked automatically. For modification only system-generated files will be checked, based on user requirements can opt for other file generation.

2. Click on **Generate** button to generate the files selected.

3

Deployment

This topic provides an overview of the Workbench-generated files deployment process.

Workbench-generated files can be deployed directly to the application server and schema. Front-end files get copied to the desired location which the user has maintained while adding environment details. Database files get compiled to FLEXCUBE schema which is specified in the working environment.

Prerequisites

The below maintenance is required to use the deploy option. In the environment, the user has two options to copy files based on the operating system the FLEXCUBE application is running.

- **Windows:** File Copy / FileManager
- **Unix:** FileManager

FileManager Servlet needs to deploy in the application server where FLEXCUBE is running. Refer File manager section in [Development Workbench – Administration](#) to get more details about the file manager.

In environment creation, the below details are mandatory to use the deploy option.

Figure 3-1 Environment Master

ORACLE FLEXCUBE Development Workbench for Universal Banking - Windows Internet Explorer

ORACLE FLEXCUBE Development Workbench for Universal Banking

DEMOUSER

Windows Options Sign Out

Environment Master

Environment Details

Environment Code: FCUBS_12.2_MODEL8

Release Code: FCUBS_12.2_MODEL8

Language Code: ENG

Description: FCUBS_12.2_MODEL8

JNDI name

JNDI Name: JDBCF114MDBANK

Database Details

Database Instance: ORCL

Database Port: 1521

Database IP Address: localhost

Database Host Name: localhost

Database Name: FC114

Database Password: *****

Application Details

Application URL: http://localhost:7172/FC

Application IP Address: localhost

Application Name:

Application OS: Unix

Application Transfer Type: File Manager

JS Directory Path: FC114EXT/reqdown/wait

UIXML Directory Path: FC114EXT/reqdown/wait

Server User Name:

Server Password:

Server Filemanager URL: http://10.184.74.143:7777

File Manager User Name:

File Manager Password:

Test Environment

Modification Number: 3

Maker Id: RADTOOL

Maker Date Stamp: 2013-02-15 15:24:19

Close

Table 3-1 Environment Master

Field	Description
Application Operating System	Unix/Windows
Application Transfer Type	Windows: File Copy/FileManager UNIX: FileManager
JS Directory Path	Enter the shared path of JS files.
Uixml Directory Path	Enter Shared path of Language XML files.

**Note:**

If the application server is **Windows**, the user can enter the absolute path.

- [Deploy Files](#)
This topic explains the systematic instructions to deploy the files.

3.1 Deploy Files

This topic explains the systematic instructions to deploy the files.

- Select required files to deploy and then click on the **Deploy** button.

Figure 3-2 Deploy Screen

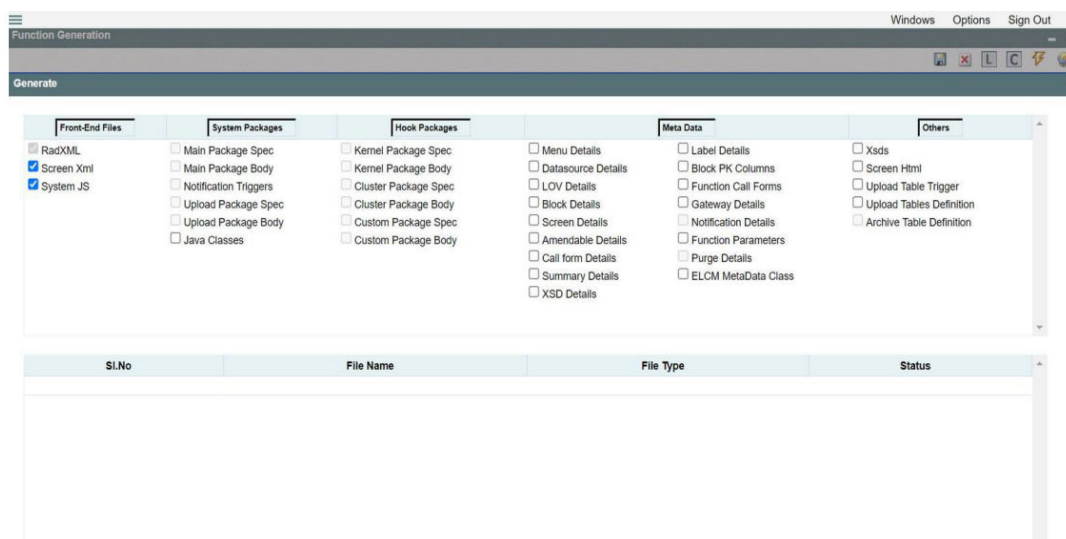
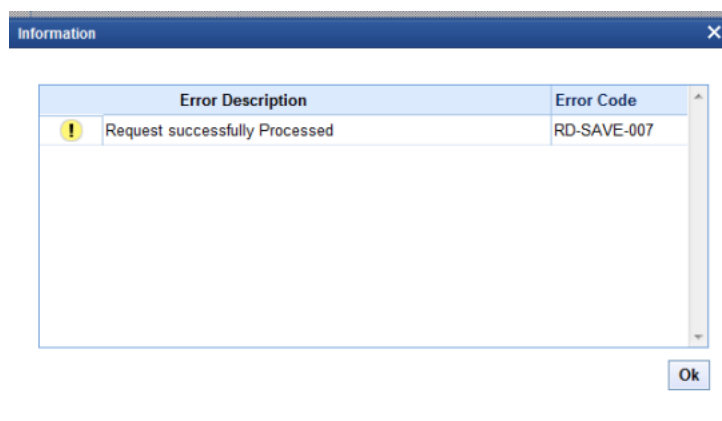


Figure 3-3 Deploy Screen

On successful deployment, **Information** window displays with successful deployment message.

Figure 3-4 Information



4

Release

This topic provides an overview of release files to SVN through Development Workbench.

The release feature of Workbench is applicable only for developers within Oracle Financials. It involves the integration of the Tool with other in-house tools (repository/version control tools). Oracle FLEXCUBE Development Workbench is integrated with SVN.

SVN Integration

Workbench provides an interface to release the units generated to SVN. The following prerequisite should be adhered to before attempting to release units to SVN:

1. SVN Repository URL should be provided in the Preferences Node of Function Id against the field SVN Repository URL. Path till the module name has to be given.
2. For Example:- For an FT module RADXML path can be given as
Z:\FCUBS_11.3.0\Soft\MAIN\FT

The following files can be released to SVN through Development Workbench:

1. RADXML
2. Main Package(spc and sql)

For releasing files to SVN, the user has to check on the units to be released to SVN and click the OK button from the Release screen. SVN credentials have to be provided on the screen. SFR number has to be provided if it is not a simple check-in and if checked in successfully, the status will be displayed as released.