

Oracle® FLEXCUBE Investor Servicing Development Workbench - Screen Development I



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Contents

Preface

Purpose	viii
Audience	viii
Documentation Accessibility	ix
Critical Patches	ix
Diversity and Inclusion	ix
Conventions	ix
Screenshot Disclaimer	x
Prerequisite	x
Related Resources	x

1 Overview of Screen Development for Oracle FLEXCUBE

1.1 Radxml	1-1
1.2 Extensible Development	1-1
1.3 Design Steps	1-2
1.4 Save Radxml	1-2

2 Header Information

2.1 Action	2-5
2.2 Function Id	2-5
2.3 Save Xml Path	2-5
2.4 Function Type	2-6
2.5 Parent Function	2-6
2.6 Parent Xml	2-7
2.7 Function Category	2-7
2.8 Header Template	2-7
2.9 Footer Template	2-7

3 Preferences

4 Data Sources

4.1	Create New Data Source	4-1
4.2	Data Source Properties	4-3
4.2.1	Default Order By	4-4
4.2.2	Type	4-5
4.2.3	Mandatory	4-5
4.2.4	Upload Table	4-5
4.3	Data Source Columns	4-6
4.4	Delete Data Sources	4-8

5 Data Blocks

5.1	Create Data block	5-1
5.2	Data Block Fields	5-5
5.2.1	Field Name	5-7
5.2.2	Field Label	5-8
5.2.3	XSD Tag	5-8
5.2.4	XSD Annotation	5-8
5.2.5	Display Type	5-8
5.3	Item Type	5-13
5.3.1	Text Area Rows	5-16
5.3.2	Text Area Columns	5-16
5.3.3	Related Block	5-16
5.3.4	Related Field	5-16
5.3.5	Parent Field	5-16
5.3.6	Min Val	5-17
5.3.7	Max Val	5-17
5.3.8	Max Decimals	5-17
5.3.9	LOV Name	5-17
5.3.10	Offline LOV Name	5-17
5.3.11	Field set Name	5-17
5.3.12	Data Type	5-18
5.3.13	Data Source	5-18
5.3.14	Column Name	5-18
5.3.15	Max Length	5-18
5.3.16	Field Size	5-18
5.3.17	Default Value	5-18
5.3.18	Preview Value	5-18
5.3.19	Mask Id	5-19
5.3.20	Popup Edit Required	5-19
5.3.21	Required	5-19

5.3.22	Visible	5-19
5.3.23	Input by LOV Only	5-19
5.3.24	Calendar Text	5-19
5.3.25	Upper Case Only	5-19
5.3.26	LOV Validation Required	5-19
5.3.27	Not Required in XSD	5-20
5.3.28	Read Only	5-20
5.3.29	Custom Attributes	5-20
5.3.30	Exact Fetch	5-21
5.3.31	Hot Key Required	5-21
5.3.32	Focus Required	5-21
5.3.33	Events	5-21
5.3.34	Bind Variables	5-22
5.3.35	Return Fields	5-23
5.4	Data block- Guidelines and Best Practices	5-23
5.5	Deletion of a Data Block	5-24
5.5.1	Deletion of Block Field	5-25
5.5.2	Rename Data Block	5-26
5.5.3	Renaming of Data Block	5-27

6 Screens

6.1	Creating a New Screen	6-1
6.1.1	Screen Properties	6-2
6.1.2	Screen Name	6-2
6.1.3	Screen Title	6-3
6.1.4	Main Screen	6-3
6.1.5	Visible	6-3
6.1.6	Screen Size	6-3
6.1.7	Exit Button Type	6-3
6.1.8	Active	6-4
6.1.9	Tabs	6-5
6.1.10	Sections and Partitions	6-7
6.1.11	Partition Details	6-8
6.1.12	Multiple Screens in Same Function Id	6-9
6.2	Guidelines and Best Practices	6-10
6.3	Deletion of Screens	6-10
6.3.1	Visible Flag	6-12
6.4	Renaming of Screens	6-12

7	Field Sets	
7.1	Create New Field Set	7-1
7.1.1	Attaching Field to a Field Set	7-4
7.2	Guidelines and Best Practices	7-5
7.2.1	Delete Field Set	7-5
7.2.2	Visible Flag	7-6
7.3	Renaming of Field Set	7-6
8	LOVs	
8.1	Define LOVs	8-1
8.2	LOVs- Guidelines and Best Practices	8-7
8.3	Delete and Rename LOVs	8-7
9	Call Forms	
9.1	Attach Call Forms	9-1
9.2	Call Form- Guidelines and Best Practices	9-5
10	Launch Forms	
10.1	Attach Launch Forms	10-1
10.2	Launch Forms- Guidelines and Best Practices	10-3
11	Actions	
11.1	XSD Type Identifier	11-1
11.1.1	Service Name	11-1
11.1.2	Operation Id	11-1
11.1.3	Action Code	11-2
11.1.4	Operation Code	11-2
11.1.5	Action Stage Type	11-2
11.2	Amendable Field Information	11-3
12	Summary	
12.1	Guidelines and Best Practices	12-4
13	Generation and Deployment of files	

14 Appendix

14.1	Screen Preview	14-1
14.2	Locate Field	14-2
14.3	Label Code Maintenance	14-4

Index

Preface

Oracle FLEXCUBE Investor Servicing is a comprehensive mutual funds automation software from Oracle® Financial Servicing Software Ltd.©.

You can use the system to achieve optimum automation of all your mutual fund investor servicing processes, as it provides guidelines for specific tasks, descriptions of various features and processes, and general information.

This topic contains the following sub-topics:

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Conventions](#)
- [Screenshot Disclaimer](#)
- [Prerequisite](#)
- [Related Resources](#)

Purpose

This manual is designed to help FLEXCUBE Application developers/users to familiarize with ORACLE FLEXCUBE Development Workbench for Investor Servicing.

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:

Table 1 Proficiency and Resources

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

Table 1 (Cont.) Proficiency and Resources

Proficiency	Resources
Working knowledge of Web based Applications	Self-Acquired
Working knowledge of Oracle Database	Oracle Documentations
Working knowledge of PLSQL developer	Respective vendor documents
Working knowledge of PLSQL and SQL Language	Self-Acquired
Working knowledge of XML files	Self-Acquired

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>.

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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](#).

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.

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.

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.

Prerequisite

Specify **User ID** and **Password**, and log in to **Home Screen**.

Related Resources

The functions of ORACLE FLEXCUBE Development Workbench for Investor Servicing system is organized into various guides, each discussing a component.

For more information, see these Open Development Tool documents:

- *Open Development Tool Installation*
- *Development Workbench - Getting Started*
- *Development Workbench - Administration*
- *Development Workbench - Screen Development I*
- *Development Workbench - Screen Development II*
- *Development Workbench - Screen Customizer*
- *Development Workbench - Notifications*
- *Development Workbench - Source Upgrade*
- *Development Workbench - Tracking Changes*
- *Child and Screen Childs - Concept and Design*
- *Development of Maintenance Form*
- *Development of Online Form*
- *Development of Call Form*
- *Development of Launch Forms and Other Screens*
- *Development of Dashboard Form*
- *Development Workbench Service XML Development*
- *Development Workbench Performance Tuning Enhancements*
- *Development Workbench - Rest Services Development*

1

Overview of Screen Development for Oracle FLEXCUBE

This topic provides an overview of 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 assists 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 the back end and front end units.

Example 1-1

Release Name: FC 11.3

Release Type: KERNEL, CLUSTER, CUSTOM

- [Radxml](#)
This topic provides an overview of the Radxml file.
- [Extensible Development](#)
This topic provides an overview of the extensible development of FLEXCUBE.
- [Design Steps](#)
This topic explains the systematic instructions to develop a screen in ODT.
- [Save Radxml](#)
This topic provides information on saving Radxml.

1.1 Radxml

This topic provides an overview of the Radxml file.

ODT saves all the activities carried out by the developer in an XML file hereby referred to as Radxml. The 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 save the Radxml accordingly.

Radxml will adhere to the naming convention: **Function Id name + _RAD.xml**

For Example: **FTDTRONL_RAD.xml**

1.2 Extensible Development

This topic provides an overview of the extensible development of FLEXCUBE.

Table 1-1 Extensible Development Stages

Extensible Development Stages	Description
KERNEL	This refers to the core product. For Example: FC 11.3
CLUSTER	This refers to any region-specific enhancements/developments done on top of the KERNEL product. The changes done in a CLUSTER pack will be noninvasive to the KERNEL product. For Example: FC 11.3 India cluster
CUSTOM	Any enhancements required by the customer/bank are done on this level. It will be noninvasive of the changes done in KERNEL and CLUSTER packs. For Example: Customizations for the MODEL bank on FC 11.3 India cluster

ODT can segregate the changes done on different releases and save the Radxml accordingly. It generates the files depending on the release type and developers can add the business logic to the release type-specific files. Thus the code remains noninvasive of the existing code.

1.3 Design Steps

This topic explains the systematic instructions to develop a screen in ODT.

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 LOVs
7. Designing Summary
8. Defining Actions

Refer respective topics for detailed explanation of each step.

While Development, save radxml at constant intervals. Click **Save** icon to save Radxml in the user directory maintained.

1.4 Save Radxml

This topic provides information on 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

Header Information

This topic provides the systematic instructions to update header information.

1. Log in to the **Development Workbench for Universal Banking** using the credentials maintained.

Refer to the topic *Development Workbench - Administration* for creating users.

2. Map the session to the release and environment as required.

Refer Development Workbench – Getting Started for detailed explanation.

3. Click **Function Generation** node in the browser tree found in the Landing page of ODT.
The **Function Generation** screen is displayed.

Figure 2-1 Function Generation

4. On **Function Generation** screen, specify the following.

For more information on this, refer to the field description table.

Table 2-1 Function Generation - field Description

Field	Description
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 the 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

Table 2-1 (Cont.) Function Generation - field Description

Field	Description
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.
Function Type	The Function Type can be Parent or Child or Screen Child (based on the screen which has to be designed). For more information, refer to the <i>Function Type</i> table.
Parent Function	This field is applicable only if the function type is child/screen child and this field will be populated when the parent RAD xml is loaded. This is a read only field.
Save Xml Path	The label description of the field will change depending on the action .If the action is load, ODT attaches the Browse button to it so that user can browse the radxml and load it. If the action is New, Save Xml Path is optional. If provided, then the generated units will be saved in the path mentioned. Note that the value in the Save Xml Path will be used only if the Save Format is Client Path and if the User has given CURRENT_DIRECTORY in the User Preferences of the Work Directory.
Parent Xml	This field is also applicable only if the Function type is child/screen child. If the Function Type is child/screen child user has to load the radxml of the Parent Function using browse button provided to this field. It is non editable field if the action is Load.
Function Category	Provide Function category depending on the type of screen being developed. ODT provides the following options: For more information on this, refer to the <i>Function Category</i> table.
Header Template	A template can be selected for header. For more information on this, refer to the <i>Header Template</i> table.
Footer Template	A template can be selected for footer. The following options are provided. For more information on the field, refer to the <i>Footer Template</i> table.

Table 2-2 Function Type

Field	Description
Parent	This is the default option and can be used for normal screen development.
Child	This option can be selected if the screen has to be the child of another screen .i.e. inherits all the properties of another screen which will be its parent. Properties can be modified in the child level.

Table 2-2 (Cont.) Function Type

Field	Description
Screen Child	This option can be selected if the screen has to be the screen child of another screen, i.e. it inherits all properties from its parent. Only screen layout changes can be done in the screen child screen.

Table 2-3 Function Category

Field	Description
Maintenance	These screens are typically used to maintain static data used across the system. These screens include product definition function as well. Example: Branch Parameters Maintenance
Transaction	These screens are typically used to capture contract related data. Any operations related to contracts are performed in these screens Example: Funds Transfer Contract Input screen
Report	These screens are used to capture data required to generate a BI Publisher canned reports. Example: General Ledger balance report
Summary	If only query operation is required for the particular function Id, then function category can be selected as summary.
Others	If developer feels that existing handles provided in maintenance/ transaction screens in extensible framework is inadequate (or not necessary) for the screen; screen can be designed as others. Note that all business logic would have to be manually written by the developer for others screen.

Table 2-4 Header Template

Field	Description
None	This is the default header and should be used for all screens except workflow screens.
Process	This template can be selected for workflow screens. The following Fields will be added to the header section as part of this template. a. Workflow Reference b. Priority

Table 2-5 Footer Template

Field	Description
None	This is the default value.

Table 2-5 (Cont.) Footer Template

Field	Description
Maint audit	This template can be used for maintenance screens. Ensure that master data source has the standard audit columns. Audit block field names are reserved field names and hence cannot be used as the name of any other block field. For more information on the field, refer to the <i>Audit Column and corresponding Block Fields</i> table. Note: When template is selected, ODT automatically adds the fields to Data Source and Blocks and adding these fields manually to data blocks results in erroneous behavior.
Maint Process	In this template along with maintenance audit fields System would automatically add a control block and Process related fields. This template can be used for workflow maintenance screens.
Process	Only process related Fields will be added to the Footer. This can be used for work flow transaction screens. As part of process template; previous remarks, remarks, outcome and audit block will be created in the footer.

Table 2-6 Audit column and corresponding Block Fields

Column Name	Block Field Name
MAKER_ID	MAKER
MAKER_DT_STAMP	MAKERSTAMP
CHECKER_ID	CHECKER
CHECKER_DT_STAMP	CHECKERSTAMP
MOD_NO	MODNO
RECORD_STAT	RECSTAT
ONCE_AUTH	ONCEAUTH
ONCE_AUTH	AUTHSTAT

For example, For Funds Transfer Contract Input Screen name can be given as FTDTRONL. Here FT is the module (Funds Transfer), third letter D denotes it is a normal detail screen, and Length of the function Id is 8.

If the action selected is **Load**, function Id field will be disabled. It will be picked up from the radxml which is loaded.

- [Action](#)
This topic describes about the action.
- [Function Id](#)
This topic describes about the function Id.
- [Save Xml Path](#)
This topic describes the save Xml path.
- [Function Type](#)
This topic describes the function type.
- [Parent Function](#)
This topic describes the parent function.
- [Parent Xml](#)
This topic describes the parent xml.

- [Function Category](#)
This topic describes the function category.
- [Header Template](#)
This topic describes the header template.
- [Footer Template](#)
This topic describes the template of the footer.

2.1 Action

This topic describes about the 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 Function Id

This topic describes about the function Id.

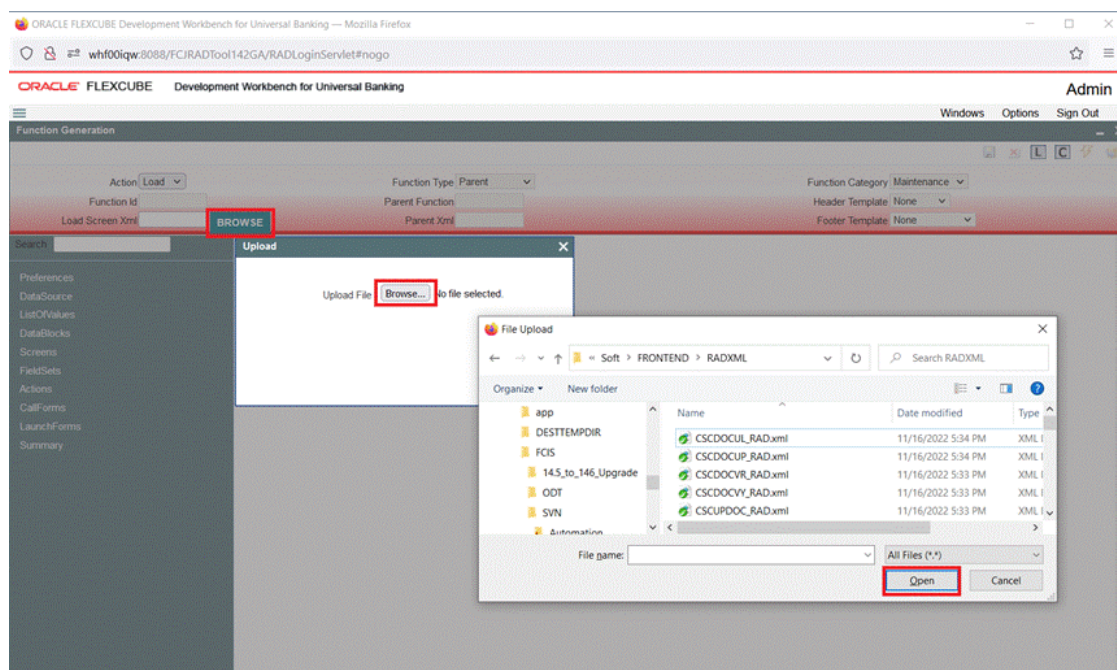
If the Action is selected as New, the function Id name needs to be specified. Function Id is the unique name with which a screen is identified.

- 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 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). Example: 12 For Funds Transfer Contract Input Screen name can be given as FTDTRONL. Here FT is the module (Funds Transfer), third letter D denotes it is a normal detail screen, and Length of the function Id is 8. If the action selected is Load, function Id field will be disabled. It will be picked up from the radxml which is loaded.

2.3 Save Xml Path

This topic describes the 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.

Figure 2-2 Loading of an Existing radxml in ODT

If the action is New, save xml path is optional. If provided, then the generated units will be saved in the path mentioned. Note that the value in the Save Xml Path will be used only if the Save Format is Client Path and if the User has given **CURRENT_DIRECTORY** in the User Preferences\Work Directory.

2.4 Function Type

This topic describes the function type.

Function Type can be Parent or Child or Screen Child (based on the screen which has to be designed).

Parent: This is the default option and can be used for normal screen development.

Child: This option can be selected if the screen has to be the child of another screen; i.e. inherits all the properties of another screen which will be its parent. Properties can be modified in the child level.

Screen Child: This option can be selected if the screen has to be the screen child of another screen, i.e. it inherits all properties from its parent. Only screen layout changes can be done in the screen child screen.

Refer respective documents for detailed explanation on parent/child/screen child screens.

2.5 Parent Function

This topic describes the parent function.

This field is applicable only if the function type is child/screen child and this field will be populated when the parent RAD xml is loaded. This is a read only field.

2.6 Parent Xml

This topic describes the parent xml.

This field is also applicable only if the Function type is child/screen child. If the Function Type is child/screen child user has to load the radxml of the Parent Function using browse button provided to this field. It is non editable field if the action is **Load**.

2.7 Function Category

This topic describes the function category.

Provide Function category depending on the type of screen being developed. ODT provides the following options:

Maintenance: These screens are typically used to maintain static data used across the system. These screens include product definition function as well. Example: Branch Parameters Maintenance.

Transaction: These screens are typically used to capture contract related data. Any operations related to contracts are performed in these screens Example: Funds Transfer Contract Input screen.

Summary: If only query operation is required for the particular function Id, then function category can be selected as Summary.

Others: If developer feels that existing handles provided in maintenance/transaction screens in extensible framework is inadequate (or not necessary) for the screen; screen can be designed as others. Note that all business logic would have to be manually written by the developer for others screen.

2.8 Header Template

This topic describes the header template.

A template can be selected for header. The following options are provided.

None: This is the default header and should be used for all screens except workflow screens.

Process: This template can be selected for workflow screens. The following Fields will be added to the header section as part of this template.

1. Workflow Reference
2. Priority

2.9 Footer Template

This topic describes the template of the footer.

A template can be selected for footer. The following options are provided.

None: This is the default value.

Maint Audit: This template can be used for maintenance screens. Ensure that master data source has the standard audit columns.

Maintenance audit column names and the corresponding block field names created by ODT is provided in the table below:

Table 2-7 Maintenance audit column

COLUMN NAME	BLOCK FIELD NAME
MAKER_ID	MAKER
MAKER_DT_STAMP	MAKERSTAMP
CHECKER_ID	CHECKER
CHECKER_DT_STAMP	CHECKERSTAMP
MOD_NO	MODNO
RECORD_STAT	RECSTAT
ONCE_AUTH	ONCEAUTH
AUTH_STAT	AUTHSTAT

Audit block field names are reserved field names and hence cannot be used as the name of any other block field.



Note:

when template is selected, ODT automatically adds the fields to Data Source and Blocks and adding these fields manually to data blocks results in erroneous behavior.

Maint Process: In this template along with maintenance audit fields System would automatically add a control block and Process related fields. This template can be used for workflow maintenance screens.

Process: Only process related Fields will be added to the Footer. This can be used for workflow transaction screens. As part of process template; previous remarks, remarks, outcome and audit block will be created in the footer.

3

Preferences

This topic explains the systematic instructions to set the preferences at function ID level.

Function id level preferences like module, logging required, tanking modification Main menu, Sub-Menu1, Sub-Menu2 is maintained through Preferences screen in ODT.

The data maintained in preferences screen will be used for generating static data script for tables SMTB_MENU, SMTB_FUNCTION_DESCRIPTION, SMTB_ROLE_DETAIL and SMTB_FCC_FCJ_MAPPING.

1. Click the **Preferences** node in the **Function Generation** screen.

The **Function Generation** screen displays.

Figure 3-1 Preferences Screen in ODT Function Generation

The screenshot displays the 'Preferences' screen within the Oracle Flexcube Development Workbench. The top navigation bar includes 'Admin', 'Windows', 'Options', and 'Sign Out'. The main content area is divided into a sidebar and a main panel. The sidebar lists various configuration categories: Preferences, DataSource, ListOfValues, DataBlocks, Screens, FieldSets, Actions, CallForms, LaunchForms, and Summary. The main panel is titled 'Preferences' and contains several sections:

- Action:** A dropdown menu set to 'None'.
- Function Type:** A dropdown menu set to 'Parent'.
- Function Category:** A dropdown menu set to 'Maintenance'.
- Header Template:** A dropdown menu set to 'None'.
- Footer Template:** A dropdown menu set to 'None'.
- Module:** A text input field.
- Module Description:** A text input field.
- Module Group:** A text input field.
- Branch Program Id:** A text input field.
- Process Code:** A text input field.
- SVN Repository URL:** A text input field.
- Checkboxes:** A list of checkboxes for various preferences: Head Office Function, Logging Required, Auto Authorization, Module Auto Authorization, Tank Modifications, Field Log Required, Multi Branch Access, Excel Export Required, Java Functions, and GateWay Screen.
- Menu Detail:** A section with a 'Parameter Value Mappings' tab.
- Table:** A table with columns for 'Function Id', 'Module', and 'Module Description'. It includes a 'Control String' button and a 'Function Id' checkbox.

2. On the **Preferences** screen, specify the fields.

For more information on this, refer to the field description table.

Table 3-1 Preferences - Field Description

Field	Description
Module	It captures the Module of the function id. Developer can choose module name from the list of values provided. List of values is populated based on the modules maintained in SMTB_MODULE table of the business schema (current FLEXCUBE environment to which tool is mapped). Module Code has to be provided mandatorily. Module name provided would be reflected in the script for SMTB_MENU generated by ODT (in module column). This will also be considered while naming the packages generated by the tool. First two characters of the packages generated will be taken from the module code maintained.
Module Description	Module description gets defaulted based on the module code selected.
Head office Function	It captures whether the function is a head office function or not. It will be reflected in the static script for SMTB_MENU in column HO_FUNCTION. If the function is a head office function, only query operation will be possible at all the other branches for the particular screen.
Logging Required	It captures whether logging is required for the function or not. This will also be reflected in script generated for SMTB_MENU (column LOGGING_REQD). If this option is selected, all the request and response for the function ID will be logged in CSTB_MSG_LOG. This is used for view change option.
Auto Authorization	It captures whether Auto Authorization is allowed for the function or not. This will also be reflected in script generated for SMTB_MENU (column AUTO_AUTH).  Note: Auto authorization is possible only if it is allowed at function id level, user level and the branch level.
Tank Modification	It captures whether modification to be tanked for the function or not. This will be reflected in TANK_MODIFICATIONS column of SMTB_MENU table script. If tank modification is enabled, then the record in that screen would be logged to logging tables and taken up for processing (untanking) in later stage during EOD operations. Currently this is applicable only for maintenance screens.
Field Log Required	It captures whether field Logging is required for the function or not. This will be reflected in the FIELD_LOG_REQD column in SMTB_MENU. If field log required is enabled, then all operations on the screen will be logged to logging tables (STTB_FIELD_LOG, STTB_RECORD_LOG etc.). Currently this is applicable only for maintenance screens.
Excel Export Required	This field captures whether option to export records from summary screen to excel is required.

Table 3-1 (Cont.) Preferences - Field Description

Field	Description
Multi Branch Access	It captures whether multi branch access is required for the function Id or not. This will be reflected in MULTIBRANCH_ACCESS column of SMTB_MENU table script generated. If multi branch access is allowed, then records of different branches for the screen can be modified from a single branch.
Txn Block Name	It captures the Transaction Block Name. This is applicable only if multi branch access is allowed for the screen. Select the block from the select list which contains the field for branch code.
Txn Field Name	It captures the Transaction Field Name. This is applicable only if multi branch access is allowed for the screen. Select list provides all the block fields for the transaction block selected. Choose the field for branch code from the list. Txn Block Name and Txn Field Name will be reflected in the system JavaScript file (SYS js) generated by ODT. Developer has to code for querying the records based on the branch code value of this field.
Branch Program ID	It captures branch program id for the function.
Process Code	This can be used to map which process needs to be initiated during screen launch. This is used for workflow screens.
SVN Repository Url	This is applicable only if integration to SVN (version control tool) is required. Path of the SVN repository till the module needs to be provided in this field.
Control String	Control String defines the operations which can be done on the particular screen. Control String has to be maintained for function id. Select the function id for which control string has to be modified and click Control String .

4

Data Sources

This topic describes the data sources.

The first step in developing Functions is to identify the tables and views involved in the Function being developed. Relations among these data sources and the types of these data sources have to be identified based on the functionality.

This topic contains the following sub-topics:

- [Create New Data Source](#)
This topic provides the systematic instructions to create a new Data Source.
- [Data Source Properties](#)
This topic describes the data source properties.
- [Data Source Columns](#)
This topic provides information on Data Source Columns.
- [Delete Data Sources](#)
This topic provides the systematic instructions to delete data sources.

4.1 Create New Data Source

This topic provides the systematic instructions to create a new Data Source.

The first step in developing Functions is to identify the tables and views involved in the Function being developed. Relations among these data sources and the types of data sources need to be identified based on the functionality.

1. On the **Function Generation** screen, right-click on the **DataSource** node and select the **Add** option to create a new DataSource.
2. Or Left click on the **DataSource** node.

The **Data Source Summary** screen displays.

Figure 4-1 Adding a New Data Source

3. Click **Add DataSource (+)** icon on the top right of the screen to create a new Data Source.
4. In the **Data Source Summary** screen, select the **Data Source Name** from the list of values provided.

A list of values will fetch all objects from the business schema.

Figure 4-2 Add Table window

Table 4-1 AddTable- Field Description

Field	Description
Alias Name	If the same table is used more than once in the design, the developer can differentiate the same using different alias names.

Data source name will have table name appended with the alias name separated by __. For Example: If the table name is **CSTB_UI_COLUMNS** and alias name is **A**. The data source name will be **CSTB_UI_COLUMNS__A**

Figure 4-3 Data Source Details

5. Specify properties of the created data source.

Table 4-2 Data Source Properties

Field	Description
Data Source	This is a read-only field. Data source name will have defaulted to this field.
Master	This field identifies whether this data source is the master data source for the screen. Every screen should have one (and only one) master data source.
Relation Type	Relation type can be selected for the selected data source with the parent, One To One or One To Many . The relation should be One To Many if the parent data source is a Single Record entry and the child data source is Multi Record.
Multi Record	This field tells about the type of data source in the screen, whether it is a multiple Entry record or the single Entry Record data source, Select the field value Yes or No accordingly. Master Data source cannot be of multi-record type.
Pk Cols & Pk Type	Pk Cols & Pk Type fields are mandatory. Provide the Primary key columns of the data source separated by tilde (~) in the PK Col field and its corresponding data types in the PK Type field(also separated by tilde). For Example: If Pk Cols are CONTRACT_REF_NO (VARCHAR2) and VERSION_NO(NUMBER) , Pk Col can be provided as CONTRACT_REF_NO~VERSION_NO and Pk Type can be provided as VARCHAR2~NUMBER
Parent	The parent data source has to be mentioned for all data sources except the master data source. Select List provides all the data sources created till that point. The developer can choose the data source from the list. For master data source, the parent should not be provided.

Table 4-2 (Cont.) Data Source Properties

Field	Description
Relation	Relation with a parent has to be specified for all data sources except the master data source. Keep the parent data source on the left side of the relation. For Example: If the parent is STTM_CUSTOMER and the child is STTM_CUST_ACCOUNT, and the relationship is based on CUSTOMER_NO and BRANCH_CODE, it has to be provided as STTM_CUSTOMER.CUSTOMER_NO= STTM_CUST_ACCOUNT.CUSTOMER_NO AND STTM_CUSTOMER.BRANCH_CODE= STTM_CUST_ACCOUNT.BRANCH_CODE Note: The relationship can be only with parent maintained and the current data source; a third table cannot be introduced in the relationship. Only simple Relational operators and equal to can be used in the relationship.
Where Clause	This is an optional field. If only selected records of a particular data source are required, then where clause can be provided. Keyword WHERE need not be provided. For Example: Where clause can be given as BRANCH_CODE=GLOBAL.CURRENT_BRANCH, The values of Where Clause field will be used in generating the query statements for the current data source. During the query of the record, this clause will be added in fn_sys_query of the generated main package.
Default Order By	This is an optional field. This can be provided for multi-record data sources. While querying they would be fetched in the order by clause provided. Keyword ORDER BY is not required. For Example: If the user wants to order by EVNET_SEQ_NO, the default order can be provided as EVENT_SEQ_NO.
Type	The data source can be selected depending on the Type requirement of the screen design. The options provided are: • Normal: Data from the screen will be persisted in the table. Code for persistence would be available in the generated package. • Query: The data source can be used for only querying the data; ODT will generate packages without insert or update statements on this data source. • InOnly: Tool will generate the packages without insert and update on this data. Request XML will contain the data source while the response won't contain it. • Summary: This data source can be used for summary and this data source will not be considered while generating the packages.
Mandatory	If at least one record has to be provided for this data source, then the data source can be provided as mandatory.
Upload Table	If adapter upload is required for the function Id, then the data source should be mapped to its corresponding upload table.

4.2 Data Source Properties

This topic describes the data source properties.

Provide properties of the created data source.

Data Source: This is a read only field. Data source name will be defaulted to this field.

Master: This field identifies whether this data source is the master data source for the screen. Every screen should have one (and only one) master data source.

Relation Type: Relation type can be selected for the selected data source with the parent, One To One or One To Many. The relation should be one-to-many if the parent data source is Single Record entry and child data source is Multi Record.

Multi Record: This field tells about the type of data source in the screen, whether it is multiple Entry record or the single Entry Record data source, Select the field value Yes or No accordingly. Master Data source cannot be of multi record type.

Pk Cols & Pk Type: PK Cols and PK types are mandatory. Provide the Primary key columns of the data source separated by tilde (~) in PK Col field and its corresponding data types in PK Col field(also separated by tilde)

Example: If Pk Cols are CONTRACT_REF_NO (VARCHAR2) and VERSION_NO(NUMBER), Pk Col can be provided as CONTRACT_REF_NO~VERSION_NO and Pk Type can be provided as VARCHAR2~NUMBER

Parent: Parent data source has to be mentioned for all data sources except the master data source. Select List provides all the data sources created till that point .Developer can choose the data source from the list. For master data source, parent should not be provided.

Relation: Relation with parent has to be specified for all data sources except master data source. Keep the parent data source in the left side of the relation.

Example: If parent is STTM_CUSTOMER and child is STTM_CUST_ACCOUNT; and relationship is based on CUSTOMER_NO and BRANCH_CODE, it has to be provided as STTM_CUSTOMER.CUSTOMER_NO= STTM_CUST_ACCOUNT.CUSTOMER_NO AND STTM_CUSTOMER.BRANCH_CODE= STTM_CUST_ACCOUNT.BRANCH_CODE 22 Note that relationship can be only with parent maintained and the current data source; a third table cannot be introduced in the relationship. Only simple Relational operators and equal to can be used in the relationship.

Where Clause: This is an optional field. If only selected records of a particular data source is required, then where clause can be provided. Keyword WHERE need not be provided.

Example: Where clause can be given as BRANCH_CODE=GLOBAL.CURRENT_BRANCH The values of where clause field will be used in generating the query statements for current data source. During query of the record, this clause will be added in fn_sys_query of the generated main package.

- [Default Order By](#)
This topic describes the default order by.
- [Type](#)
This topic describes the type.
- [Mandatory](#)
This topic describes the mandatory.
- [Upload Table](#)
This topic describes the upload table.

4.2.1 Default Order By

This topic describes the default order by.

This is an optional field. This can be provided for multi record data sources. While querying they would be fetched in the order by clause provided. Keyword ORDER BY is not required.

Example: If we want to order by EVNET_SEQ_NO, default order by can be provided as EVENT_SEQ_NO.

4.2.2 Type

This topic describes the type.

Data source can be selected depending on the Type requirement of the screen design. Options provided are:

- **Normal:** Data from the screen will be persisted in the table. Code for persistence would be available in generated package
- **Query:** The data source can be used for only querying the data; ODT will generate packages without insert or update statements on this data source.
- **InOnly:** Tool will generate the packages without insert and update on this data .Request xml will contain the data source while response won't contain it.
- **Summary:** This data source can be used for summary and this data source will not be considered while generating the packages.

4.2.3 Mandatory

This topic describes the mandatory.

If at least one record has to be provided for this data source, then the data source can be provided as mandatory.

4.2.4 Upload Table

This topic describes the upload table.

If adapter upload is required for the function ID, then data source should be mapped to its corresponding upload table.

Figure 4-4 Upload table

ORACLE FLEXCUBE Development Workbench for Universal Banking — Mozilla Firefox

whf00iqw@s088/FCIRADTool142GA/RADLoginServlet#nogo

ORACLE FLEXCUBE Development Workbench for Universal Banking

Admin

Windows Options Sign Out

Function Generation

Action Load Function Type Parent Function Category Maintenance

Function Id UTDUN Parent Function Header Template: None

Save XML Path DUH_RAD.xml BROWSE Parent Xml Footer Template: Maint Audit

Search

Data Source Details

Preferences

▲ Data Source

► UNTHOLDERTBL

► UNTHOLDERINFOTBL

► UNTHOLDERDETAILTBL

► UHCONTACTINFOTBL_A

► UHCONTACTINFOTBL_C

► UHCONTACTINFOTBL_S

► UHBANKDETAILTBL

► UNTHOLDERADDINFOTBL

► KYCUNTHOLDERTBL

► FCISDISUHMAGETBL

► UHINTERMEDIARYTBL_B

► UHINTERMEDIARYTBL_E

► UHRELATEDPARTISTBL

► UHDELIVERYDETAILTBL

► UHBENEFICIARISTBL

► UHBENEFICIARYCONTACTINFOTBL

► VW_ADDINFO

► UHBENEFICIARISTBL_IH

► UHMULTILANGTBL

► UHBENEFICIARYCONTACTINFOTBL_Ih

► UHBENEFICIARISTBL_NCM

Data Source: UNTHOLDERTBL

Master: Yes

Relation Type: One To One

Multi Record: No

PK Cols: UNTHOLDERID

PK Types: VARCHAR2

Upload Table:

Upload Where Clause:

Fine Grained Service Details Only

Rest Data Block:

XSD Node:

Rest Relation:

Rest Relation Type:

Rest PK Cols:

Rest PK Types:

Parent:

Relation:

Where Clause:

Default Order By:

Type: Normal

Mandatory:

4.3 Data Source Columns

This topic provides information on Data Source Columns.

This is an information column: tool will not allow the user to change the value.

Figure 4-5 Data Source Columns

The screenshot displays the Oracle Flexcube Development Workbench for Universal Banking application, running in a Mozilla Firefox browser. The interface is divided into several sections:

- Top Bar:** Shows the application title "ORACLE FLEXCUBE Development Workbench for Universal Banking" and the user "wh00iqw@088/FCIRADTool142GA/RADLoginServlet#nogo". The "ADMIN" role is indicated in the top right corner.
- Navigation Bar:** Includes "Windows", "Options", and "Sign Out" buttons.
- Form Fields:**
 - Action:** Load (dropdown)
 - Function Id:** UTDUH
 - Function Type:** Parent (dropdown)
 - Function Category:** Maintenance (dropdown)
 - Header Template:** None (dropdown)
 - Footer Template:** Maint Audit (dropdown)
 - Save XML Path:** DUH_RAD.xml
 - BROWSE** button
- Data Source Details:**
 - Search:** (text input)
 - Preferences:**
 - Data Source:** UNITHOLDERIDBL
 - Master:** Yes (dropdown)
 - Relation Type:** One To One (dropdown)
 - Multi Record:** No (dropdown)
 - PK Cols:** UNITHOLDERID
 - PK Types:** VARCHAR2
 - Upload Table:** (text input)
 - Upload Where Clause:** (text input)
 - Fine Grained Service Details Only:**
 - Rest Data Block:** (text input)
 - XSD Node:** (text input)
 - Rest Relation:** (text input)
 - Rest Relation Type:** (dropdown)
 - Rest PK Cols:** (text input)
 - Rest PK Types:** (text input)
 - Parent:** (dropdown)
 - Relation:** (text input)
 - Where Clause:** (text input)
 - Default Order By:** (text input)
 - Type:** Normal (dropdown)
 - Mandatory:** (checkbox)
- Left Panel:** A tree view showing the application structure, including "Data Source", "UNITHOLDERID", and "UNITHOLDERIDBL". The "UNITHOLDERIDBL" node is selected, and the "Delete" button is highlighted.

Table 4-3 AddTable - Field Description

Field	Description
Max Length	The max length of column will be defaulted while adding a column and it can be overwritten. This value will be considered for the field max length of the designed screen. It means, at the run time system will not allow the user to enter the text more than this length.
Data Type	This shows about data type of the column selected and value will be populated while adding the column, this is a non-editable field.
Block Name	It is an information field, if the field is added to a block, that block name will be populated here.
Field Name	It is an information field. This displays the data block field to which the column is mapped.
Upload Table Column	If adapter upload package is required, column name in the upload table to which this column is mapped has to be provided. If the field is left blank, then the column name in upload table will be assumed to be same as the data source column name.
Not Required in Upload table	If the particular column is not mapped to any upload table column, then this option has to be checked.

Data Source Columns

Below are the steps to be followed while creating data sources:

1. Identify the tables and views involved in the Function being developed.
2. Establish the hierarchy, Relation and Relation Types among these Data Sources.
3. Ensure that the correct and full relation is mentioned in the Relation.
4. Identify the type of Data Source. It could be Normal, Summary, in only or Query Source.
5. Ensure that there is only one master Data source for the Function.
6. Based on the number of records that the data source might have for the function ID, set Multi Record to Y/N.
7. System automatically defaults the PK Column information from STTB_PK_COLS while adding the data source. Based on the specific requirement of the function ID this can be modified.
8. If the data source is mandatory, i.e. if it is a multi-record data source and have to have at least one record or if it's a single record data source and is mandatory to have the record, check the mandatory flag.
9. In case there is a need to have a default where clause or order by clause, mention the same in the respective fields.

Follow the below practices while creating data sources for the screen:

- Table/View/Synonym Names should adhere to the standard FLEXCUBE naming conventions. Tables or views should have 5th character as _ (underscore). Name should not have underscores together (Example: ACTB_TEST__ODT is wrong). Synonyms should have an 'S' appended before the first underscore of its table/view name. **Example:** Synonym for ACTB_DAILY_LOG should be ACTBS_DAILY_LOG
- Avoid using views as much as possible. Don't create a view data source with type as NORMAL. This will result in insert statements on the view in the packages generated.
- Views can be used for query only purposes, i.e. select the data source type as query for views. These can be used for designing summary data sources or a query block.

- PK Cols and PK types need not be the same as the primary key of the tables. It depends on the design logic.
- 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).
Example: Assume STTM_CUSTOMER is the parent data source (1:1) with Pk col as CUSTOMER_NO; STTM_CUST_ACCOUNT is the child of STTM_CUSTOMER with 1: N relation with parent. Here STTM_CUST_ACCOUNT should have at least 2 Pk Cols so that each record of the multi record can be uniquely distinguished. CUSTOMER_NO and ACCOUNT_NO can be provided as Pk col so that each record can be identified with its account no. Relationship can be STTM_CUSTOMER.CUSTOMER_NO= STTM_CUST_ACCOUNT.CUSTOMER_NO Parent data source has to be above all of its child data sources in the tree.

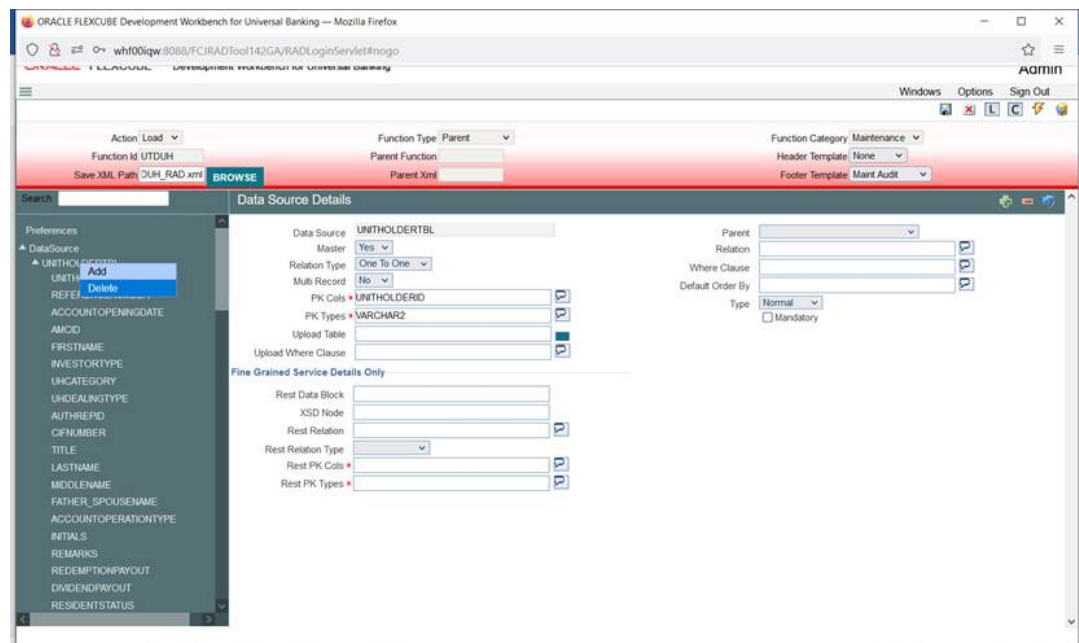
4.4 Delete Data Sources

This topic provides the systematic instructions to delete data sources.

1. On the **Function Generation** screen, right-click on the **DataSource** to be deleted and select the **Delete** option.
2. Or click the **Delete** icon in the top left of the data source screen to delete the data sources.

When a data source is deleted, all the references to that data source or its columns will also be deleted from the Radxml, that is Data block fields referring to the particular data source column and all the references to those data block fields.

Figure 4-6 Deleting a Data Source

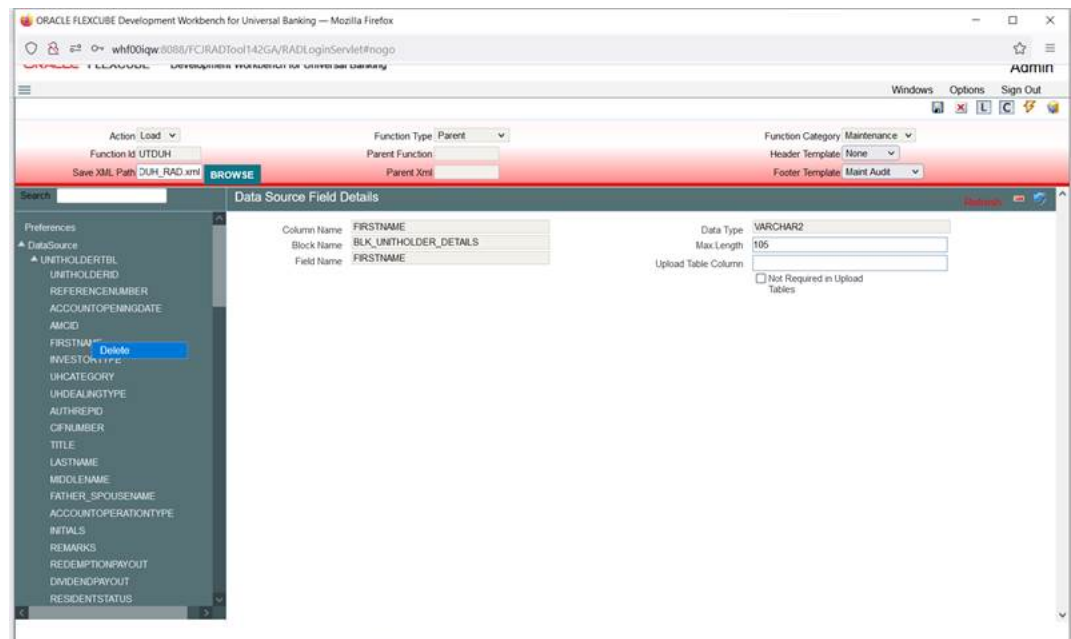


 Note:

The deletion of any element from Radxml is allowed only if that element has been created in the current release. If the data source has been created in a previous release, then the developer won't be allowed to delete the data source.

Similarly, the data source column alone can be deleted from the data source subjected to the condition mentioned above. Proper care has to be done while designing data sources as redesigning would be impossible in a later release.

Figure 4-7 Deleting Field from Data Source



5

Data Blocks

This topic describes the data blocks.

Data block is a logical grouping of fields from one or more data sources. In general, one data block will have only one data source; but in cases where the data in tables is logically related multiple data sources can be grouped into a single data block.

Once the Data source definition is complete, Block structure of the function id has to be determined based on the functionality of the screen.

- [Create Data block](#)
This topic provides the systematic instructions to create data block.
- [Data Block Fields](#)
This topic describes the data block fields.
- [Item Type](#)
This topic describes the item type.
- [Data block- Guidelines and Best Practices](#)
This topic provides a list of guidelines and best practices for creating data blocks.
- [Deletion of a Data Block](#)
This topic describes about the deletion of a data block.

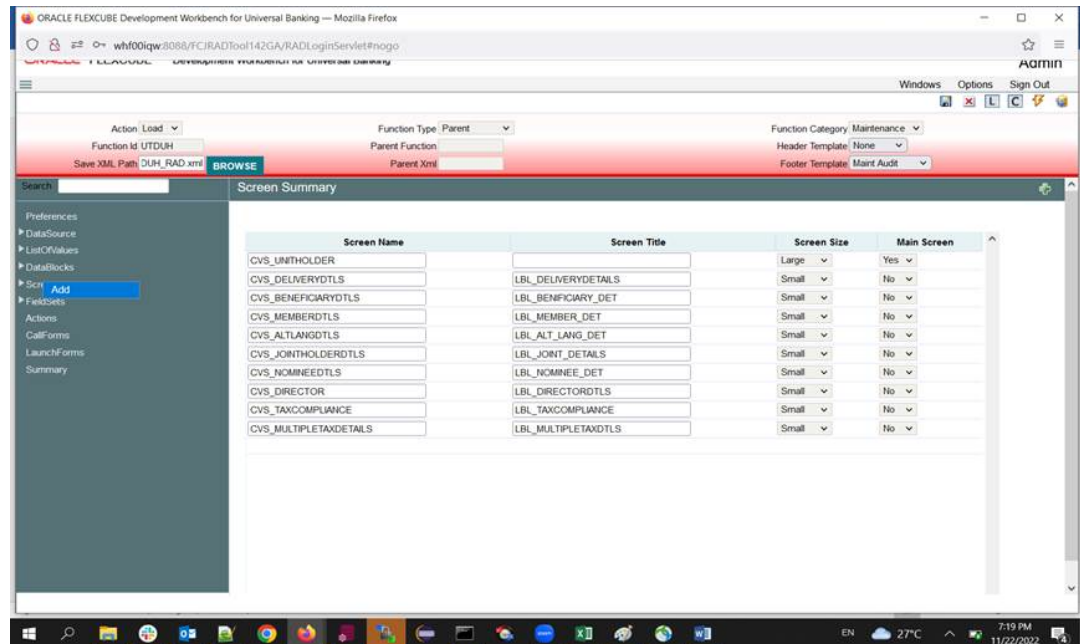
5.1 Create Data block

This topic provides the systematic instructions to create data block.

The Data block is a logical grouping of fields from one or more data sources. In general, one data block will have only one data source; but in cases where the data in tables is logically related multiple data sources can be grouped into a single data block. Once the Data source definition is complete, the Block structure of the function id has to be determined based on the functionality of the screen.

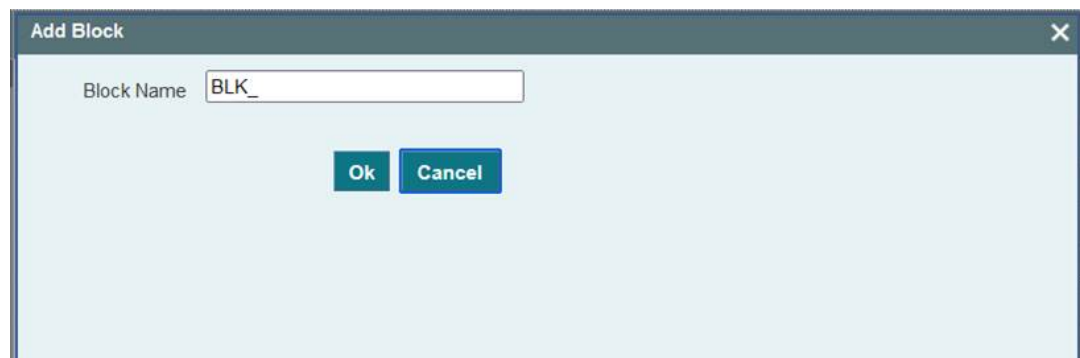
1. Right-click on the **Data Block** and select **Add** option to create the data block.
2. Or click the **Add (+)** icon in the top left of the data block screen to create new data block.

Figure 5-1 Adding a New Data Block



Add Block window displays.

Figure 5-2 Add Block Screen



- Specify the **Block Name** and then click the **OK** button.

The **Block Name** has to adhere to the following conventions:

- It has to start with **BLK_**.
- Block Name** should not contain the table names which will be attached to the block. This is of high importance from the security point of view as **Block Name** will be exposed in request and response XML.

For example: if the data source name is **FTTB_CONTRACT_MASTER**, the block name can be **BLK_MASTER**; but not **BLK_FTTB_CONTRACT_MASTER**.

Block Properties screen displays.

Figure 5-3 Block Properties

4. Specify the Block Properties as follow:

Table 5-1 Block Properties

Field	Description
Block Name	This field will have defaulted with the block name which is added. It is a non-editable field.
Block Title	Select the title of the block from the list of labels. If a new label needs to be created, then create and select from the list. For multi-record blocks, the block title will be displayed in the screen preview superseding the field set title. For single record blocks, block titles are not of any significance and hence need not be provided.
Parent	Select the parent block from the select list. All the data blocks will be available in the Select list. All data blocks except the master data block need to have a parent data block.
XSD Node	This field captures the XSD node name. ODT will use this name for the generation of the node in XSD's. This field will be defaulted based on Block Name (by removing BLK_ and replacing _ with -). If the developer wants, XSD Node field can be modified..
XSD Annotation	This field captures the annotation for the XSD node specified. Description of Block title label will have defaulted as Annotation which can be modified by the developer.
Multi Record	Using this field developer can decide block type, whether the block is a single entry block or multiple entry blocks. Depending on this value, the field Data sources available will be populated. If the value is Yes the field Data source available will be populated with data sources that have flag Multi record Yes and vice versa. If the relation type is provided as one-to-one, multi-record has to be Yes and vice versa.
Block Pk fields	Primary key fields of the block have to be provided here. If more than one field forms the primary key, it has to be separated by ~. This data is used for building the change log of a screen.
Relation Type	The relation type with the parent data block has to be mentioned here. It can be One To One or One To Many .
Master Block	One master block is mandatory while designing the screen and using this flag you can define a block as master.
Block Type	The type of the block can be selected depending on the requirement, below are the description of each type: • Control: If the block is used only for UI purpose, and it is not required for processing in the backend, then the block can be identified as Control type. Only control fields can be added to the Control block. • Normal: This block will be used for normal processing. Request and response XML will contain this data block information. • Summary: Block which is used for creating the summary screen. For normal request XML, this block won't be present in the request or response XML. • Refer data block properties image.

Table 5-1 (Cont.) Block Properties

Field	Description
Data Sources available	Depending on the Multi Record flag, data sources will be populated. Then the required data sources can be attached to the block. Validations for populating the data source: - Multi Record: Yes, All the data sources which have Multi Record flag YES and Relation Type One To One. - Multi Record: No, All the data sources which have Multi Record No. While attaching Data Sources to Blocks, multiple data sources should be selected only if such data Sources can be functionally clubbed. For Example: CSTM_PRODUCT and LCTM_PRODUCT_DEFINITION. Clubbing should not be arbitrary. A single entry data source can be mapped to more than one data block while a multi-record data source can be attached to only a single data block.
Data Sources Added	This list shows the data sources which can be attached to the particular data block. The data source shown depends on the value of the multi-record field. From the available data sources, the developer can add data sources he wants to be part of this data block. Those will come under the list Data source Added. He can also remove them from the data block. The buttons with arrow symbol are used for this addition and removal. Note that one data source can be attached to more than one data block, but each data source column can be mapped to a single data block field. Data Sources added in one release would not be allowed to be removed in any future releases. Refer Attaching Data Source to a Data Block image.

Figure 5-4 Data Block Properties

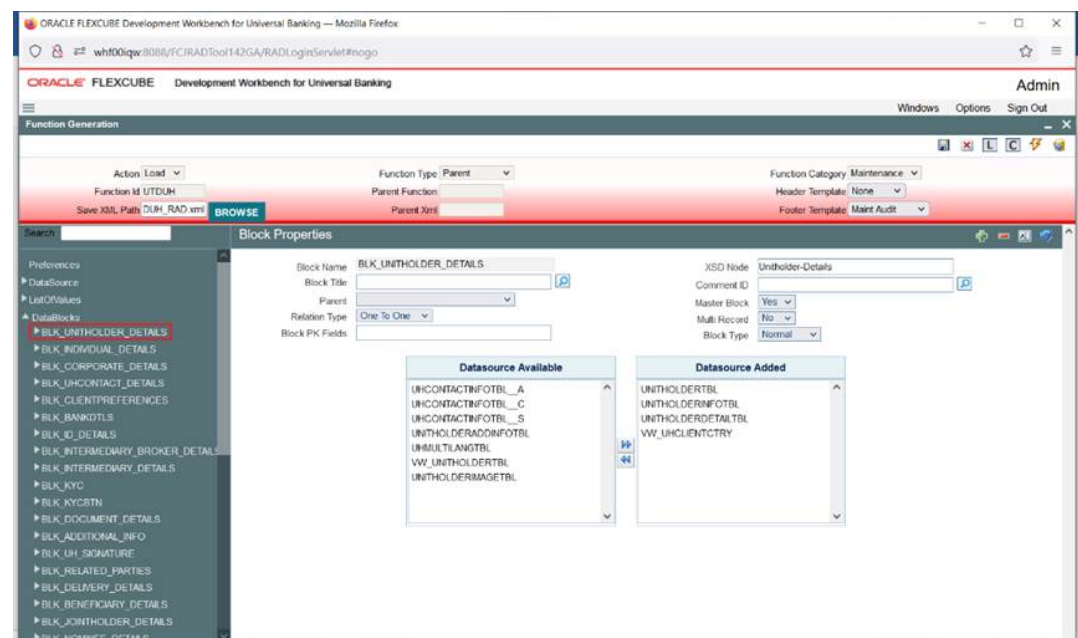
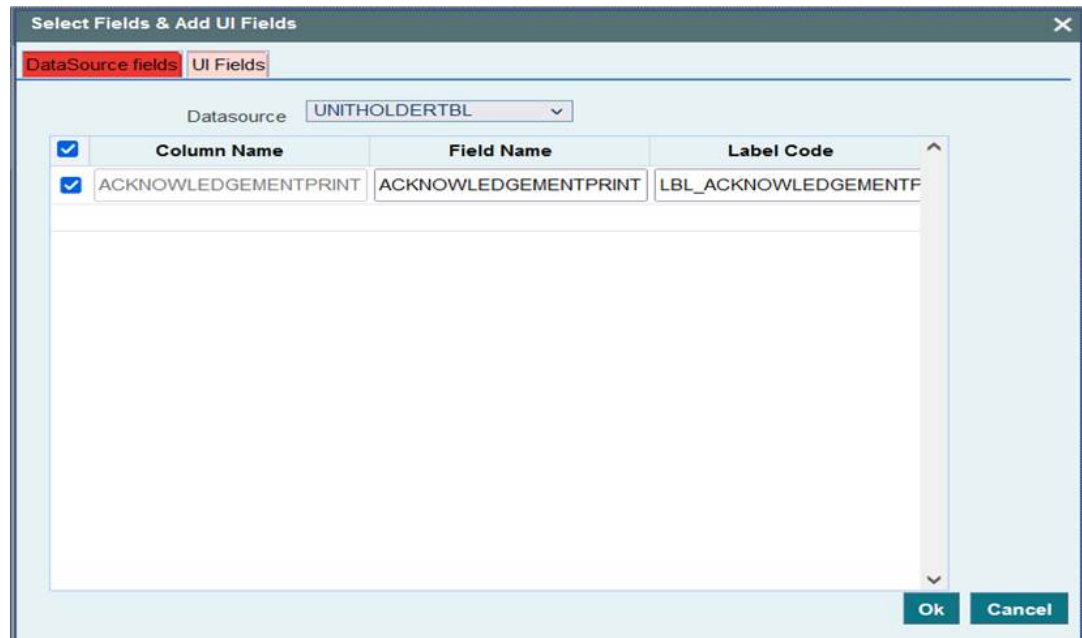


Figure 5-5 Attaching Data Source to a Data Block

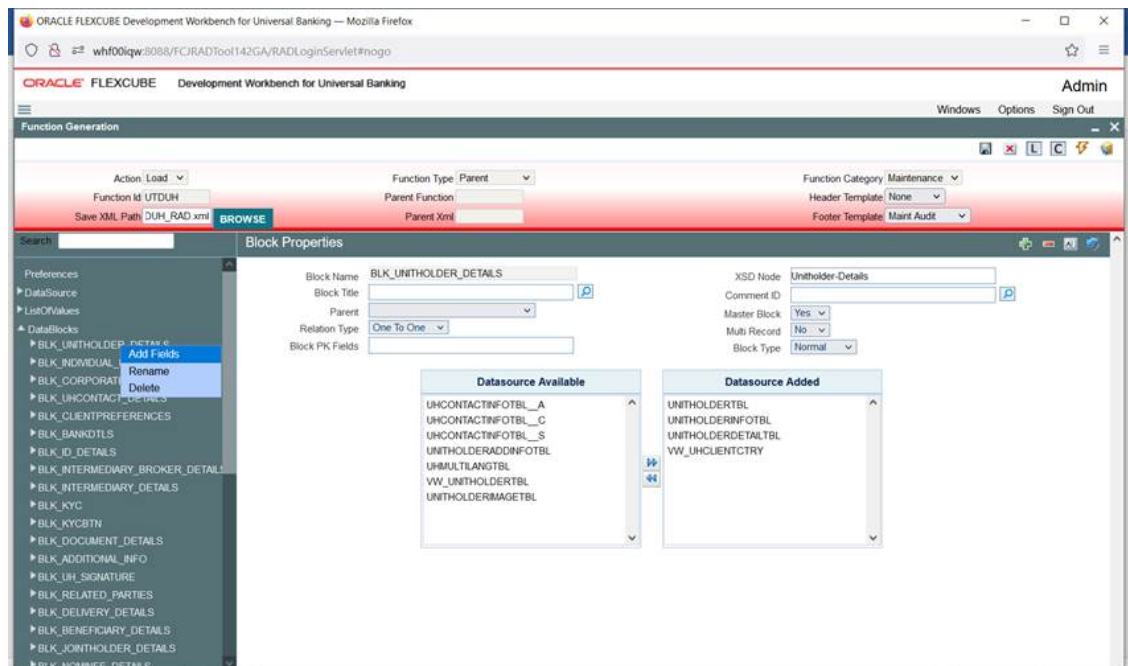


5.2 Data Block Fields

This topic describes the data block fields.

Data Block Fields are logical representation of the data source columns in the screen. Block fields can be added to a block either by: By selecting add fields option from the right click menu of the particular data block or By clicking on add field icon on the top left of data block screen.

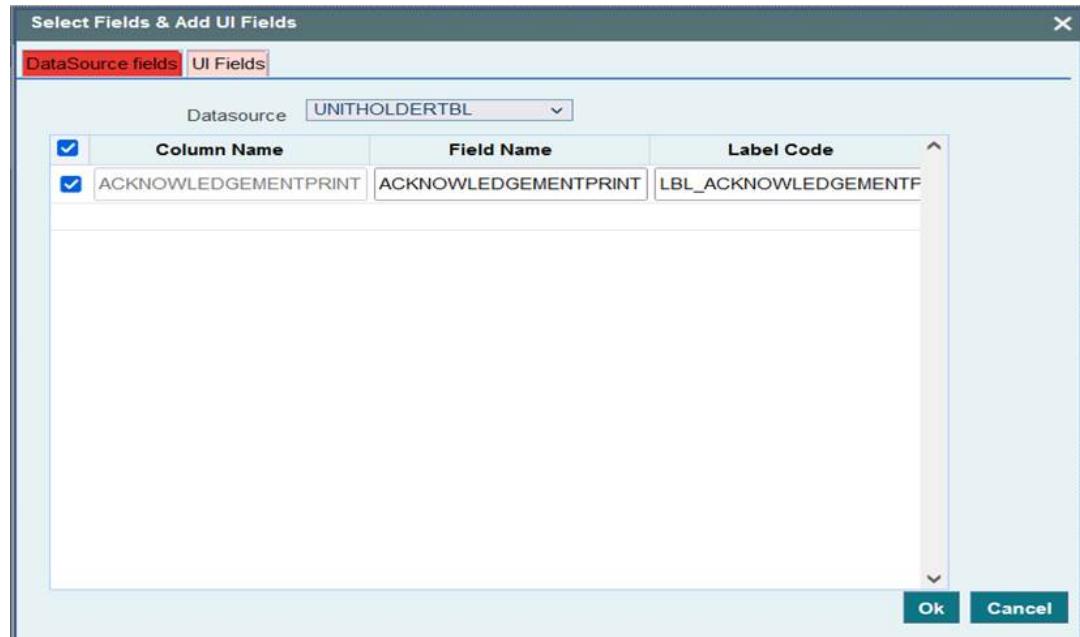
Figure 5-6 Adding Block Field to a Data Block



The screen as shown below is launched. ODT provides option to add two kinds of fields.

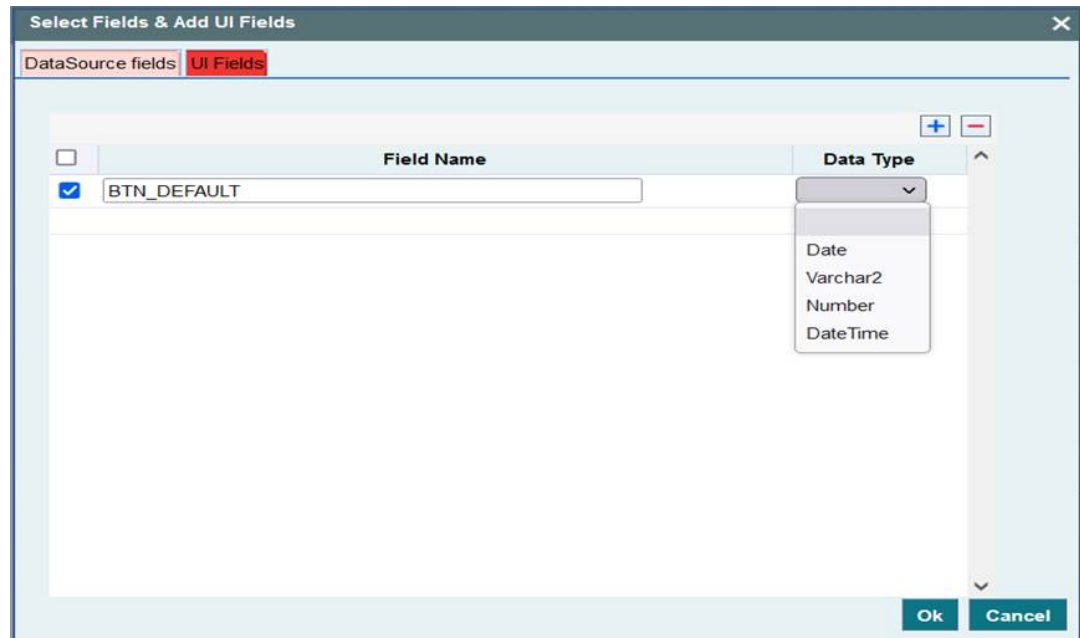
- **Data Source Fields:** These fields correspond to data source columns created in the radxml. The select list provides the list of all data sources attached to the data block. On selecting a particular data source, all the data source columns which are not yet mapped to any block fields.

Figure 5-7 Adding Data Source Fields to Data Block



Field Names and Label codes if maintained in CSTB_DATA_DICTIONARY will be defaulted. Otherwise, developer has to provide the field name as desired. Label codes will be defaulted based on the field name provided. Select all the fields which have to be included in the data block and click Ok.

- **UI Fields:** UI fields are those which don't have a corresponding data source column. These fields won't be required as part of processing and hence won't be part of request or response xml. Usually fields like buttons, images, labels etc are defined as UI fields. A control data block can have only UI fields.

Figure 5-8 Adding UI fields to Data Block

Adhere to the following conventions while defining new block field.

- Field Name should not be the same as the column name. This is important as field name will be visible in request and response xml.
- Avoid special characters in the field name (like underscore).
Example: if data source column name is CONTRACT_REF_NO, block field name can be CONTREFNO Provide the properties for the block field added.

This topic has the following sub-topics:

- [Field Name](#)
This topic describes the field name.
- [Field Label](#)
This topic describes the field label.
- [XSD Tag](#)
This topic describes the xsd tag.
- [XSD Annotation](#)
This topic describes the XSD Annotation.
- [Display Type](#)
Display Type

5.2.1 Field Name

This topic describes the field name.

Name of the field will be defaulted from the field name provided during creation of block fields. It is a non-editable field.

5.2.2 Field Label

This topic describes the field label.

This is also defaulted during block field creation. This represents the label code for the field. Corresponding label description will be displayed for the particular field.

Label code and its description have to be maintained in CSTB_LABELS. This can be achieved through ODT or by directly inserting scripts in the business schema. This field is editable. If developer wishes to change the default label code, he may do so. LBL code entered manually should be in the below format: **LBL_ xsd tag Name**

5.2.3 XSD Tag

This topic describes the xsd tag.

It will be defaulted when a field is added and whenever the label code gets modified. This value is used in the xsd's as xsd tag and same will be used for web service.

5.2.4 XSD Annotation

This topic describes the XSD Annotation.

Annotation for the xsd tag can be provided here. Description of the label code would be defaulted which can be modified by developer.

5.2.5 Display Type

Display Type

Pre-defined values are available in the select box for this field. Value can be selected on requirement. This specifies the HTML display pattern for the field. Available options are:

- **Amount:** The display type can be defined as Amount if it displays an amount. The field will be formatted based on the currency which it picks from related block and Related Field. Related block and Related Field values have to be mandatorily provided for Amount fields. Related Field should come above the amount field in the screen and it should hold the currency value for the amount.

Figure 5-9 Defining an Amount Data Block Field

The screenshot shows the 'Block Field Properties' dialog. The 'Field Name' is 'TRANSACTIONCURRENCYAM'. The 'Field Label' is 'LBL_TRANSACTIONCURREN'. The 'DataSource' is 'CONSOLIDATEDTXNTBL'. The 'Column Name' is 'TRANSACTIONCURRENCYAM'. The 'Data Type' is 'Number'. The 'Display Type' is 'Amount' (highlighted with a red box). The 'Item Type' is 'Database Item'. The 'Parent Field' is empty. The 'Related Block' is 'BLK_TRANSACTION_DETAILS' (highlighted with a red box). The 'Related Field' is 'TRANSACTIONCURRENCY' (highlighted with a red box). The 'LOV Name' is empty. The 'Off Line LOV Name' is empty. The 'Fieldset Name' is 'FST_TRANSACTION_VALUE'. The 'CLASSID' is empty. The 'XSD Tag' is 'TRANSACTIONCURRENCYAM'. The 'Comment ID' is 'CMT_TRANSACTIONCURREN'. The 'Field Size' is empty. The 'Maximum Length' is '30'. The 'Minimum Value' is '0'. The 'Maximum Value' is empty. The 'Maximum Decimals' is '12'. The 'TextArea Rows' is empty. The 'TextArea Columns' is empty. The 'Default Value' is empty. The 'Preview Value' is empty. The 'Mask Id' is empty. On the right, the 'Required' checkbox is unchecked, and the 'Visible' checkbox is checked. Other checkboxes like 'Read Only', 'Calendar Text', 'Popup Edit Required', 'Uppercase Only', 'LOV Validation Required', 'Input by LOV Only', 'Not Required In Xsd', 'Report Parameter', 'Format Required', 'Hot Key Required', 'Focus Required', 'Exact Fetch', and 'Joint Holder Hot Key Required' are all unchecked.

- **Button:** If the display type for the field is a button, display type has to be selected as button. Action to be performed on clicking the button should be provided in the events tab. Button can launch a sub screen, launch form, call form or invoke a user defined JavaScript function.

Figure 5-10 Defining Field as button

The screenshot shows the 'Block Field Properties' dialog. The 'Field Name' is 'BTN_FINDUH'. The 'Field Label' is 'LBL_FINDUH'. The 'DataSource' is empty. The 'Column Name' is empty. The 'Data Type' is empty. The 'Display Type' is 'Button' (highlighted with a red box). The 'Item Type' is 'Control' (highlighted with a red box). The 'Parent Field' is empty. The 'Related Block' is empty. The 'Related Field' is empty. The 'LOV Name' is empty. The 'Off Line LOV Name' is empty. The 'Fieldset Name' is 'FST_TRANSACTION_INFO'. The 'CLASSID' is empty. The 'XSD Tag' is 'FINDUH'. The 'Comment ID' is empty. The 'Field Size' is empty. The 'Maximum Length' is empty. The 'Minimum Value' is empty. The 'Maximum Value' is empty. The 'Maximum Decimals' is empty. The 'TextArea Rows' is empty. The 'TextArea Columns' is empty. The 'Default Value' is empty. The 'Preview Value' is empty. The 'Mask Id' is empty. On the right, the 'Required' checkbox is unchecked, and the 'Visible' checkbox is checked. Other checkboxes like 'Read Only', 'Calendar Text', 'Popup Edit Required', 'Uppercase Only', 'LOV Validation Required', 'Input by LOV Only', 'Not Required In Xsd', 'Report Parameter', 'Format Required', 'Hot Key Required', 'Focus Required', 'Exact Fetch', and 'Joint Holder Hot Key Required' are all unchecked.

- **Checkbox:** Checkbox is used for displaying checkboxes. Attribute Name will be ON and OFF. Attribute values can be provided as per design. In the figure shown below: ON (checked) corresponds to Y in table and OFF to N. Default value is selected as N.

Figure 5-11 Defining Field as Checkbox

Block Field Properties

Field Name: RECEIVED
 Field Label: LBL_RECEIVED
 DataSource: KYCTRANSACTIONTBL
 Column Name: RECEIVED
 Data Type: Varchar2
 Display Type: **CheckBox**
 Item Type: Database Item
 Parent Field:
 Related Block:
 Related Field:
 LOV Name:
 Off Line LOV Name:
 Fieldset Name: FST_KYCDTLS_F1
 CLASSID:

XSD Tag: RECEIVED
 Comment ID: CMT_RECEIVED
 Field Size:
 Maximum Length: 1
 Minimum Value:
 Maximum Value:
 Maximum Decimals:
 TextArea Rows:
 TextArea Columns:
 Default Value: **N**
 Preview Value:
 Mask Id:

☐ Required
☒ Visible
☐ Read Only
☐ Calendar Text
☐ Popup Edit Required
☐ Uppercase Only
☐ LOV Validation Required
☐ Input by LOV Only
☐ Not Required In Xsd
☐ Report Parameter
☐ Format Required
☐ Hot Key Required
☐ Focus Required
☐ Exact Fetch
☐ Joint Holder Hot Key Required

Custom Attributes Events

Attribute Name	Attribute Value	Active	Move Up	Move D
ON	Y	Yes	▲	▼
OFF	N	Yes	▲	▼

- **Date:** If the field is of date type display type can be selected as Date.

Figure 5-12 Defining Field as Date

Block Field Properties

Field Name: RECEIVEDDATE
 Field Label: LBL_RECEIVEDDATE
 DataSource: KYCTRANSACTIONTBL
 Column Name: RECEIVEDDATE
 Data Type: Date
 Display Type: **Date**
 Item Type: Database Item
 Parent Field:
 Related Block:
 Related Field:
 LOV Name:
 Off Line LOV Name:
 Fieldset Name: FST_KYCDTLS_F1
 CLASSID:

XSD Tag: RECEIVEDDATE
 Comment ID: CMT_RECEIVEDDATE
 Field Size:
 Maximum Length: 7
 Minimum Value:
 Maximum Value:
 Maximum Decimals:
 TextArea Rows:
 TextArea Columns:
 Default Value:
 Preview Value:
 Mask Id:

☐ Required
☒ Visible
☐ Read Only
☐ Calendar Text
☐ Popup Edit Required
☐ Uppercase Only
☐ LOV Validation Required
☐ Input by LOV Only
☐ Not Required In Xsd
☐ Report Parameter
☐ Format Required
☐ Hot Key Required
☐ Focus Required
☐ Exact Fetch
☐ Joint Holder Hot Key Required

Custom Attributes Events

Attribute Name	Attribute Value	Active	Move Up	Move Down
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- **Date Time:** If the field displays both date and time, it can be selected as Date Time.
- **File:** If browser option is required for the field, then field has to be selected as file type. Example: If an excel sheet from the local machine needs to be selected, browser button has to be provided, so that user can browse the folders and select the file required.
- **Label:** If the field is required only for displaying image or Label, it can be selected as Label. Normally UI fields are used for label display purpose.

Figure 5-13 Defining Field as Label

The screenshot shows the 'Block Field Properties' dialog box. The 'Field Name' is 'BTN_UHSIG' and the 'Field Label' is 'LBL_UHSIGNATURE'. The 'Data Source' is empty, and the 'Column Name' is empty. The 'Data Type' is 'Varchar2'. The 'Display Type' is 'Label' (highlighted with a red box). The 'Item Type' is 'Control' (highlighted with a red box). The 'Parent Field' is empty. The 'Related Block' is empty. The 'Related Field' is empty. The 'LOV Name' is empty. The 'Off Line LOV Name' is empty. The 'Fieldset Name' is 'FST_UHFUND'. The 'CLASSID' is empty. The 'XSD Tag' is 'UHSIGNATURE'. The 'Comment ID' is empty. The 'Field Size' is empty. The 'Maximum Length' is empty. The 'Minimum Value' is empty. The 'Maximum Value' is empty. The 'Maximum Decimals' is empty. The 'TextArea Rows' is empty. The 'TextArea Columns' is empty. The 'Default Value' is empty. The 'Preview Value' is empty. The 'Mask Id' is empty. The 'Required' checkbox is unchecked. The 'Visible' checkbox is checked. The 'Read Only' checkbox is unchecked. The 'Calendar Text' checkbox is unchecked. The 'Popup Edit Required' checkbox is unchecked. The 'Uppercase Only' checkbox is unchecked. The 'LOV Validation Required' checkbox is unchecked. The 'Input by LOV Only' checkbox is unchecked. The 'Not Required In Xsd' checkbox is unchecked. The 'Report Parameter' checkbox is unchecked. The 'Format Required' checkbox is unchecked. The 'Hot Key Required' checkbox is unchecked. The 'Focus Required' checkbox is unchecked. The 'Exact Fetch' checkbox is unchecked. The 'Joint Holder Hot Key Required' checkbox is unchecked.

- **LOV:** If field value has to be selected through a LOV, display type has to be selected as LOV. LOV's have to be defined as explained in respective section. LOV which has to be linked to the field has to be selected from the LOV Name select list. Return Fields and Bind Variables has to be mapped as shown in the figure below. If input to field has to be done only through LOV, Input By LOV Only fields can be checked. If validation for the value entered by the user is required in server, (validating whether the value selected is part of the values fetched by LOV); LOV validation Req'd can be checked. For branch screens, Offline LOV Name can also be attached.

Figure 5-14 Defining Field as LOV

The screenshot shows the 'Block Field Properties' dialog box. The 'Field Name' is 'ENTITYID' and the 'Field Label' is 'LBL_ENTITYID'. The 'Data Source' is 'TXNINTERMEDIARYTBL'. The 'Column Name' is 'ENTITYID'. The 'Data Type' is 'Varchar2'. The 'Display Type' is 'Lov' (highlighted with a red box). The 'Item Type' is 'Database Item' (highlighted with a red box). The 'Parent Field' is empty. The 'Related Block' is empty. The 'Related Field' is empty. The 'LOV Name' is 'LOV_ENTITYID' (highlighted with a red box). The 'Off Line LOV Name' is empty. The 'Fieldset Name' is 'FST_TXNINTERMEDIARY'. The 'CLASSID' is empty. The 'XSD Tag' is 'ENTITYID'. The 'Comment ID' is 'CMT_ENTITYID'. The 'Field Size' is empty. The 'Maximum Length' is '12'. The 'Minimum Value' is empty. The 'Maximum Value' is empty. The 'Maximum Decimals' is empty. The 'TextArea Rows' is empty. The 'TextArea Columns' is empty. The 'Default Value' is empty. The 'Preview Value' is empty. The 'Mask Id' is empty. The 'Required' checkbox is unchecked. The 'Visible' checkbox is checked. The 'Read Only' checkbox is unchecked. The 'Calendar Text' checkbox is unchecked. The 'Popup Edit Required' checkbox is unchecked. The 'Uppercase Only' checkbox is checked. The 'LOV Validation Required' checkbox is checked (highlighted with a red box). The 'Input by LOV Only' checkbox is unchecked. The 'Not Required In Xsd' checkbox is unchecked. The 'Report Parameter' checkbox is unchecked. The 'Format Required' checkbox is unchecked. The 'Hot Key Required' checkbox is unchecked. The 'Focus Required' checkbox is unchecked. The 'Exact Fetch' checkbox is unchecked. The 'Joint Holder Hot Key Required' checkbox is unchecked.

The 'Return Fields Mapping' section is expanded, showing a table with the following data:

Query Column	Block Name	Return Field Name
ENTITYTYPE	BLK_INTERMEDIARY_DETAILS	ENTITYTYPE
ENTITYID	BLK_INTERMEDIARY_DETAILS	ENTITYID
ENTITYNAME	BLK_INTERMEDIARY_DETAILS	ENTITYNAME1
PARENTENTITYNAME	BLK_INTERMEDIARY_DETAILS	PARENTENTITYNAME

- **Mask:** If the field has to be masked on tab out, then the display type can be selected as Mask. Mask ID has to be selected which identifies the pattern of the mask applied.
- **Password:** If the display type has to be in Password form, display type can be selected as Password.
- **Radio:** If the display type has to be radio button, it can be selected as Radio. All the options for the Radio button have to be provided in the Custom Attributes. Label which should be displayed in the screen should be provided in attribute name and its corresponding storage value to attribute value. **Default Value** can also be provided.

Figure 5-15 Defining Field as Radio button

The screenshot shows the 'Block Field Properties' dialog box. The 'Field Name' is 'ALLOTTED_FLAG', 'Field Label' is 'LBL_ALLOTTED_FLAG', 'DataSource' is 'CONSOLIDATEDXTNTBL', and 'Column Name' is 'ALLOTTEDFLAG'. The 'Data Type' is 'Varchar2'. The 'Display Type' is set to 'Radio' and 'Item Type' is 'Database Item'. The 'Parent Field' is empty, 'Related Block' is empty, 'Related Field' is empty, 'LOV Name' is empty, 'Off Line LOV Name' is empty, 'Fieldset Name' is 'FST_TRANSACTION_INFO', and 'CLASSID' is empty. The 'XSD Tag' is 'ALLOTTED_FLAG', 'Comment ID' is empty, 'Field Size' is empty, 'Maximum Length' is '1', 'Minimum Value' is empty, 'Maximum Value' is empty, 'Maximum Decimals' is empty, 'TextArea Rows' is empty, 'TextArea Columns' is empty, 'Default Value' is '1', 'Preview Value' is empty, and 'Mask Id' is empty. On the right, there are checkboxes for 'Required', 'Visible', 'Read Only', 'Calendar Text', 'Popup Edit Required', 'Uppercase Only', 'LOV Validation Required', 'Input by LOV Only', 'Not Required In Xsd', 'Report Parameter', 'Format Required', 'Hot Key Required', 'Focus Required', 'Exact Fetch', and 'Joint Holder Hot Key Required'. At the bottom, there is a 'Custom Attributes' tab with a table showing two attributes: 'LBL_ALLOTTED' with a value of '1' and 'LBL_UNALLOTTED' with a value of '0'. The 'Active' column for both is 'Yes'. The 'Move Up' and 'Move Down' buttons are also present.

Attribute Name	Attribute Value	Active	Move Up	Move D
☐ LBL_ALLOTTED	1	Yes	▲	▼
☒ LBL_UNALLOTTED	0	Yes	▲	▼

- **Read Only Select:** This is similar to Select Field; but the field will be non-editable to the user. Select options will be defaulted based on the developer's code.
- **Restricted Text:** This is similar to normal Text field but special characters (non-alpha numeric) won't be allowed to be input in a restricted Text field.
- **Text:** For a normal text field, display type can be selected as Text. This is the default display type.
- **Text Area:** If data to be entered for the field is large (>100 characters); It can be defined as Text Area type. Number of rows and columns required for the text area can be specified in **Text Area Rows** and **Text Area Cols**.

Figure 5-16 Defining Field as Text Area

The screenshot shows the 'Block Field Properties' dialog for the field 'TRANSACTIONNUMBER'. The 'Display Type' is set to 'Text'. The 'TextArea Rows' and 'TextArea Columns' are both set to 5. The 'Data Type' is 'Varchar2'. The 'Field Size' is 16. The 'XSD Tag' is 'TRANSACTIONNUMBER' and the 'Comment ID' is 'CMT_TRANSACTION_NUMBE'. The 'Required' checkbox is checked. The 'Visible' checkbox is checked. The 'Read Only' checkbox is checked. The 'Calendar Text' checkbox is unchecked. The 'Popup Edit Required' checkbox is unchecked. The 'Uppercase Only' checkbox is unchecked. The 'LOV Validation Required' checkbox is unchecked. The 'Input by LOV Only' checkbox is unchecked. The 'Not Required In Xsd' checkbox is unchecked. The 'Report Parameter' checkbox is unchecked. The 'Format Required' checkbox is unchecked. The 'Hot Key Required' checkbox is unchecked. The 'Focus Required' checkbox is unchecked. The 'Exact Fetch' checkbox is unchecked. The 'Joint Holder Hot Key Required' checkbox is unchecked.

- **Select:** If a select list is required for field, display type can be selected as Select. All the options for the Select List have to be provided in the Custom Attributes. Label which should be displayed in the screen should be provided in attribute name and its corresponding storage value to attribute value.

Figure 5-17 Defining Field as Select List

The screenshot shows the 'Block Field Properties' dialog for the field 'TRANSACTION_MODE'. The 'Display Type' is set to 'Select'. The 'Data Type' is 'Varchar2'. The 'Field Size' is 1. The 'XSD Tag' is 'TRANSACTION_MODE' and the 'Comment ID' is 'CMT_TRANSACTION_MODE'. The 'Required' checkbox is checked. The 'Visible' checkbox is checked. The 'Read Only' checkbox is unchecked. The 'Calendar Text' checkbox is unchecked. The 'Popup Edit Required' checkbox is unchecked. The 'Uppercase Only' checkbox is unchecked. The 'LOV Validation Required' checkbox is unchecked. The 'Input by LOV Only' checkbox is unchecked. The 'Not Required In Xsd' checkbox is unchecked. The 'Report Parameter' checkbox is unchecked. The 'Format Required' checkbox is unchecked. The 'Hot Key Required' checkbox is unchecked. The 'Focus Required' checkbox is unchecked. The 'Exact Fetch' checkbox is unchecked. The 'Joint Holder Hot Key Required' checkbox is unchecked.

The 'Custom Attributes' tab is selected, showing a table with the following data:

Attribute Name	Attribute Value	Active	Move Up	Move Down
Amount	A	Yes	▲	▼
Units	U	Yes	▲	▼
Percent	P	Yes	▲	▼

5.3 Item Type

This topic describes the item type.

The value of this field will be defaulted to DATABASE item, if the field has taken from the data source. If the field is a UI field, item type can be either CONTROL or DESC. Item type can be provided as CONTROL for non-data fields like buttons, labels etc.

Item Type can be provided as DESC for control fields used for display of data. **Example:** description of another data source column field If the type is DESC parent field should be attached and the selected parent field should have a LOV attached to it. And the current field should be one of the return fields of the attached LOV.

Figure 5-18 Defining Field as Text

The screenshot shows the 'Block Field Properties' dialog box. The 'Field Name' is 'HIDTXNDATE'. The 'Field Label' is 'LBL_HIDTXNDATE'. The 'DataSource' is empty. The 'Column Name' is empty. The 'Data Type' is 'Date'. The 'Display Type' is 'Text'. The 'Item Type' is 'Desc'. The 'Parent Field' is 'TRANSACTION_DATE'. The 'Related Block' is empty. The 'Related Field' is empty. The 'LOV Name' is empty. The 'Off Line LOV Name' is empty. The 'Fieldset Name' is 'FST_TRANSACTION_INFO'. The 'CLASSID' is empty. The 'XSD Tag' is 'HIDTXNDATE'. The 'Comment ID' is empty. The 'Field Size' is empty. The 'Maximum Length' is empty. The 'Minimum Value' is empty. The 'Maximum Value' is empty. The 'Maximum Decimals' is empty. The 'TextArea Rows' is empty. The 'TextArea Columns' is empty. The 'Default Value' is empty. The 'Preview Value' is empty. The 'Mask Id' is empty. The 'Required' checkbox is checked. The 'Visible' checkbox is checked. The 'Read Only' checkbox is checked. The 'Calendar Text' checkbox is checked. The 'Popup Edit Required' checkbox is checked. The 'Uppercase Only' checkbox is checked. The 'LOV Validation Required' checkbox is checked. The 'Input by LOV Only' checkbox is checked. The 'Not Required In Xsd' checkbox is checked. The 'Report Parameter' checkbox is checked. The 'Format Required' checkbox is checked. The 'Hot Key Required' checkbox is checked. The 'Focus Required' checkbox is checked. The 'Exact Fetch' checkbox is checked. The 'Joint Holder Hot Key Required' checkbox is checked.

The field will be generated in the package and front end (SYS.js) only if the item type is Database item. CONTROL and DESC types are UI fields; hence won't be present in the generated packages.

This topic describes the following sub-topics:

- [Text Area Rows](#)
This topic describes the text area rows.
- [Text Area Columns](#)
This topic describes the text area columns.
- [Related Block](#)
This topic describes the related block.
- [Related Field](#)
This topic describes about the related field.
- [Parent Field](#)
This topic describes about the parent field.
- [Min Val](#)
This topic describes about the min val.
- [Max Val](#)
This topic describes about the max val.

- [Max Decimals](#)
This topic describes about the max decimals.
- [LOV Name](#)
This topic describes about the LOV Name.
- [Offline LOV Name](#)
This topic describes about the offline LOV name.
- [Field set Name](#)
This topic describes about the field set name.
- [Data Type](#)
This topic describes about the data type.
- [Data Source](#)
This topic describes about the data source.
- [Column Name](#)
This topic describes about the column name.
- [Max Length](#)
This topic describes about the max length.
- [Field Size](#)
This topic describes about the field size.
- [Default Value](#)
This topic describes about the default value.
- [Preview Value](#)
This topic describes about the preview value.
- [Mask Id](#)
This topic describes about the mask Id.
- [Popup Edit Required](#)
This topic describes about the popup edit required.
- [Required](#)
This topic describes about the required.
- [Visible](#)
This topic describes about the visible.
- [Input by LOV Only](#)
This topic describes about the input by LOV only.
- [Calendar Text](#)
This topic describes about the calendar text.
- [Upper Case Only](#)
This topic describes about the upper case only.
- [LOV Validation Required](#)
This topic describes about the LOV validation required.
- [Not Required in XSD](#)
This topic describes about the not required in XSD.
- [Read Only](#)
This topic describes about the read only.
- [Custom Attributes](#)
This topic describes about the custom attributes.

- [Exact Fetch](#)
This topic describes about the exact fetch.
- [Hot Key Required](#)
This topic describes about the hot key required.
- [Focus Required](#)
This topic describes about the focus required.
- [Events](#)
This topic describes about the events.
- [Bind Variables](#)
This topic describes about the bind variables.
- [Return Fields](#)
This topic describes about the return fields.

5.3.1 Text Area Rows

This topic describes the text area rows.

This field is applicable only if display type is **Text Area**. Number of rows required in the Text area can be provided here. This field allows the developer to increase the height of the Text Area in the screen

5.3.2 Text Area Columns

This topic describes the text area columns.

This field is also applicable only for **Text Area** fields. Width of the text area can be provided. This field allows the developer to increase the width of the Text Area in the screen.

5.3.3 Related Block

This topic describes the related block.

This field is applicable if display type is amount. An amount field can be related to a particular currency field, and this field captures the block name where the currency field is present.

5.3.4 Related Field

This topic describes about the related field.

This field is also applicable only if display type is **Amount**. Subsequent to the above field (Related Block), a field can be selected as a related field for an amount field. Selected Block's (Related Block) fields will be available in the select box.

5.3.5 Parent Field

This topic describes about the parent field.

If the Item Type of the selected field is Desc, a parent field should be attached and the selected parent field should have a LOV attached to it. And the current field should be one of the return fields of the attached LOV.

**Note:**

This feature is provided to avoid Query data sources and should be used for all description Fields. If a particular field is selected as “Description Field” in ODT, the LOV for the Parent field should not have any Control Item as a bind variable.

5.3.6 Min Val

This topic describes about the min val.

Minimum value for a number field can be mentioned .ODT will generate validation for the minimum value of the field in the generated package as well as the frontend units.

5.3.7 Max Val

This topic describes about the max val.

Maximum value for a number field can be mentioned .ODT will generate validation for the maximum value of the field in the generated package as well as the frontend units.

5.3.8 Max Decimals

This topic describes about the max decimals.

Max Decimals for a number or amount field can be provided here.

5.3.9 LOV Name

This topic describes about the LOV Name.

This is applicable only if the display type is LOV. LOV to be attached has to be selected from the select list. Select List will contain all the LOVs defined by the developer for the particular screen plus **GLOBAL LOVS**.

Global LOV can be maintained across function id and same can be attached to a field. This will reduce development time. LOV can be selected from list of values attached to the field. These LOV are handled by the FLEXCUBE Infra. Global LOVs are stored in **CSTB_LOV_INFO** with function id as **COMMON**.

5.3.10 Offline LOV Name

This topic describes about the offline LOV name.

These LOV will be used by the Branch function id if the branch is in offline mode, offline LOV will be used. All the LOV will be populated which are defined in the LOV definition screen. Both offline and online LOV can be maintained for the same field.

Offline Global LOV: Defining of these LOV remains same as Global LOV, and functionality is same as offline LOV.

5.3.11 Field set Name

This topic describes about the field set name.

This is a non-editable field and is defaulted based on the field set to which the particular field is mapped.

5.3.12 Data Type

This topic describes about the data type.

This is non editable field. This will be defaulted from the data type of the column to which the field is mapped. This has to be mandatorily provided.

5.3.13 Data Source

This topic describes about the data source.

This is a non-editable field. This will default the table name of whose column is mapped to the particular field.

5.3.14 Column Name

This topic describes about the column name.

This is a non-editable field. This will default the column name to which the particular field is mapped.

5.3.15 Max Length

This topic describes about the max length.

The max length of column will be defaulted while adding a field and it can't be overwritten. This value will be considered for the field max length of the designed screen. It means, at the run time system will not allow the user to enter the text more than this length. The value of the field can be changed from data source column properties which will reflect in block field level as well.

5.3.16 Field Size

This topic describes about the field size.

Value will be defaulted while adding the field and same can be modified. This is the size which will reflect in the screen for the field.

5.3.17 Default Value

This topic describes about the default value.

A default value can be given to the selected field, system will use the default value at the run time and default value will be stored in the generated front end unit, it will not available in the generated packages.

5.3.18 Preview Value

This topic describes about the preview value.

In the Screen Preview, if developer wishes to see the preview with some data; a preview value can be provided.

5.3.19 Mask Id

This topic describes about the mask Id.

This is used for enforcing some restrictions on the values that can be entered in some fields. The ids are present in sttb_field_mask. This is applicable only if the display type is **Mask**.

5.3.20 Popup Edit Required

This topic describes about the popup edit required.

This can be checked for long text entries. A pop up edit screen would come along with the field. Popup edit will be provided for all fields whose field size is larger than 20 by FLEXCUBE Infra.

5.3.21 Required

This topic describes about the required.

If the field is mandatory, this checkbox can be checked. This will force the user to enter value in this field. Asterisk (*) character would come along with the field in the screen.

5.3.22 Visible

This topic describes about the visible.

Screens can be made invisible if it not intended to be used. The screens created in any previous release cannot be deleted. Hence visible flag has to be unchecked to achieve the same.

5.3.23 Input by LOV Only

This topic describes about the input by LOV only.

This is applicable only for LOV fields. This will force the user to use the LOV button to input the value instead of key in the value.

5.3.24 Calendar Text

This topic describes about the calendar text.

This is applicable if the fields has to be placed close to each other as in a calendar.

5.3.25 Upper Case Only

This topic describes about the upper case only.

If the field value has to be in Uppercase only, this option can be checked. This will convert the field value to Uppercase on tab out of that field in FLEXCUBE.

5.3.26 LOV Validation Required

This topic describes about the LOV validation required.

This is applicable only for LOV fields. If validation for the value input in LOV field is required, this option can be checked.

5.3.27 Not Required in XSD

This topic describes about the not required in XSD.

If the field is not to be included in XSD, then this option can be checked.

5.3.28 Read Only

This topic describes about the read only.

This will restrict the user from entering value to the field. Field can be made non editable by checking this option.

5.3.29 Custom Attributes

This topic describes about the custom attributes.

Attribute Name and values for SELECT, RADIO, CHECKBOX and READ ONLY SELECT fields has to be provided here.

- **Attribute Name:** corresponds to the Label Code whose description will appear in the screen.
- **Attribute Value:** is the corresponding value which will be stored in the backend for the corresponding attribute.
- **Active:** ODT does not allow the deletion of attribute elements if created in an earlier release. Hence if an attribute is no longer required, the attribute can be made inactive.
- **Position:** Ordering of the attributes in the list can be manipulated using Position field. Position numbers can be modified. After changing the position values, position button has to be clicked; which will arrange all attributes in the new order.

Figure 5-19 Defining Custom attributes for a Select Field

The screenshot shows the 'Block Field Properties' dialog box. The 'Field Name' is 'FEECALCULATIONBASIS'. The 'Field Label' is 'LBL_FEECALCULATIONBASIS'. The 'DataSource' is 'VW_CONSTXTBL'. The 'Column Name' is 'FEECALCULATIONBASIS'. The 'Data Type' is 'Char'. The 'Display Type' is 'Select'. The 'Item Type' is 'Database Item'. The 'Parent Field' is empty. The 'Related Block' is empty. The 'Related Field' is empty. The 'LOV Name' is empty. The 'Off Line LOV Name' is empty. The 'Fieldset Name' is 'FST_FEEDTLS'. The 'CLASSID' is empty. The 'XSD Tag' is 'FEECALCULATIONBASIS'. The 'Comment ID' is empty. The 'Field Size' is '1'. The 'Maximum Length' is '1'. The 'Minimum Value' is empty. The 'Maximum Value' is empty. The 'Maximum Decimals' is empty. The 'TextArea Rows' is empty. The 'TextArea Columns' is empty. The 'Default Value' is 'F'. The 'Preview Value' is empty. The 'Mask Id' is empty. The 'Required' checkbox is unchecked. The 'Visible' checkbox is checked. The 'Read Only' checkbox is unchecked. The 'Calendar Text' checkbox is unchecked. The 'Popup Edit Required' checkbox is unchecked. The 'Uppercase Only' checkbox is unchecked. The 'LOV Validation Required' checkbox is unchecked. The 'Input by LOV Only' checkbox is unchecked. The 'Not Required In Xsd' checkbox is unchecked. The 'Report Parameter' checkbox is unchecked. The 'Format Required' checkbox is unchecked. The 'Hot Key Required' checkbox is unchecked. The 'Focus Required' checkbox is unchecked. The 'Exact Fetch' checkbox is unchecked. The 'Joint Holder Hot Key Required' checkbox is unchecked. The 'Custom Attributes' tab is selected. The 'Attribute Name' column contains 'Fund Base Currency' and 'Transaction Currency'. The 'Attribute Value' column contains 'F' and 'T'. The 'Active' column contains 'Yes' and 'Yes'. The 'Move Up' and 'Move Down' buttons are present.

Attribute Name	Attribute Value	Active	Move Up	Move Down
Fund Base Currency	F	Yes	▲	▼
Transaction Currency	T	Yes	▲	▼

5.3.30 Exact Fetch

This topic describes about the exact fetch.

If a field is Lov field, we can check the option of exact fetch required as shown below. If a particular field is attached with an enabled exact fetch value, while searching using this field, user has to provide the exact value of that field as it is present in the database otherwise the system will show a message of invalid value.

5.3.31 Hot Key Required

This topic describes about the hot key required.

If User wants to provide hotkey functionality to a field then Hotkey required checkbox need to be checked corresponding to that field.

5.3.32 Focus Required

This topic describes about the focus required.

If a field is read only field then the focus doesn't come on this field once it is launched in FLEXCUBE. Focus required will bring the focus to the corresponding read only fields. If User wants to provide focus required functionality to a field then focus required checkbox need to be checked corresponding to that field.

Figure 5-20 Focus Required

Block Field Properties

Field Name: FEECALCULATIONBASIS
 Field Label: LBL_FEECALCULATIONBASIS
 DataSource: VW_CONSTXTNBL
 Column Name: FEECALCULATIONBASIS
 Data Type: Char
 Display Type: Select
 Item Type: Database Item
 Parent Field:
 Related Block:
 Related Field:
 LOV Name:
 Off Line LOV Name:
 Fieldset Name: FST_FEEDTLS
 CLASSID:

XSD Tag: FEECALCULATIONBASIS
 Comment ID:
 Field Size: 1
 Maximum Length: 1
 Minimum Value:
 Maximum Value:
 Maximum Decimals:
 TextArea Rows:
 TextArea Columns:
 Default Value: F
 Preview Value:
 Mask Id:

Required: ☐
 Visible: ☒
 Read Only: ☐
 Calendar Text: ☐
 Popup Edit Required: ☐
 Uppercase Only: ☐
 LOV Validation Required: ☐
 Input by LOV Only: ☐
 Not Required In Xsd: ☐
 Report Parameter: ☐
 Format Required: ☐
 Hot Key Required: ☒
 Focus Required: ☒
 Exact Fetch: ☒
 Joint Holder Hot Key Required: ☐

Custom Attributes | Events | Related Field

Attribute Name	Attribute Value	Active	Move Up	Move Down
Fund Base Currency	F	Yes	▲	▼
Transaction Currency	T	Yes	▲	▼

5.3.33 Events

This topic describes about the events.

Events tab needs to be input if the field type is **BUTTON**.

Event Name: A pre-defined java script event can be attached to the field and same can be selected. Usually, onclick event is selected.

Function Name: A function name should be mentioned for event, same function should be maintained in the function id java script or in the infra java script files. This function will be invoked on the event mentioned earlier on the field.



Note:

Function Name needs to be mentioned only if event type is either NORMAL or SUBFUNCTION.

Event Type:

Event Type can be

- **Call form:** If on click of the button a call form has to be launched
- **Launch form:** If on click of the button a launch form has to be launched
- **Sub screen:** If on click of the button a Sub Screen has to be launched
- **Normal:** if on click of the button, a JavaScript function has to be invoked which is mentioned in Function Name field. Normal buttons have to be placed in a field set for them to appear in the screen.
- **Sub Function:** This is used in Process Flow screens to invoke sub functions.
- **Button Screen:** it specifies in which screen button is to be placed. This is not required for Normal buttons

Call Form Name: If the button is of Call form/Launch form type, the name of the call form/launch form which has to be launched should be mentioned here. All the attached call forms .Launch forms which are active will appear in the Select List.

Screen Name: For Sub Screen, call form, Launch Form type buttons; this field specified the name of the screen which will be launched.

Figure 5-21 Event Type

Event Name	Function Name	Event Type	Button Screen	CallForm Name	Screen Name
onclick	fn_SettlementDetails()	Subscreen	CVS_IPOS		CVS_SETTLEM

5.3.34 Bind Variables

This topic describes about the bind variables.

Figure 5-22 Bind Variables

Block Name	Bind Variable	Data Type
BLK_TRANSACTION_DETAILS	FUNDID	STRING
BLK_TRANSACTION_DETAILS	TRANSACTION_DATE	DATE
BLK_TRANSACTION_DETAILS	TRANSACTION_TYPE	STRING
BLK_TRANSACTION_DETAILS	UNITHOLDER_ID	STRING

5.3.35 Return Fields

This topic describes about the return fields.

Bind Variables and return fields are required for LOV fields. Refer section on LOVS for detailed explanation.

Figure 5-23 Return Fields

Query Column	Block Name	Return Field Name
COMPONENTID	BLK_TRANSACTION_DETAILS	FROMFUND_PRICE
COMPONENTDESC		
DEFAULTPRICEBASE	BLK_TRANSACTION_DETAILS	
SOURCEINDICATOR		
EFFECTIVEDATE		

5.4 Data block- Guidelines and Best Practices

This topic provides a list of guidelines and best practices for creating data blocks.

Below are points to be noted while creating data blocks:

1. All Block Names Should start with **BLK_** and the remaining portion of the block name should be the same as the XSD node of the Block Name in Upper case and **_** replaced with **-**. Avoid naming the block name the same as that of the table name.
2. Blocks also would have a hierarchy and has to be chosen correctly.
3. Block Types are similar to data source types with an additional type **Control**.
4. After adding a block, ODT defaults the XSD node. Node name would be Block name without **BLK_** and in Sentence case. Also, **_** will be replaced with **-**.
5. Parent block should be chosen from the list based on the hierarchy.
6. Similar to data sources, block also can be either Multi-Record or single record type.
7. Block Title has to be selected from the LOV.
8. Relation type has to be mentioned as **One to One** or **One to Many**.
9. One and only one block should be selected as Master Block.

Keypoints for attaching Data Sources to Data Block

Below are some of the important points to be noted while attaching data sources to a data block:

1. The same data source can be selected in multiple blocks. However, in the case of Multi record data sources, ODT allows the developer to attach the data source to only one block.
2. One Multi Record block can have multiple data sources provided all of these data sources have strict one-to-one relation.
3. In case of multiple data sources in a single data block, it is important to ensure that the data in the attached data sources is functionally related and more importantly, a row in one table would definitely have a row in other attached data sources as well. Otherwise the generated code inserts records in all the tables always and this would result in lot of dummy records in the database.
4. Parent data block has to be above its child data block in the browser tree. Developer has the option to rearrange the order of the blocks in the tree (by drag and drop).

**Note:**

If block or block fields are rearranged, all units will have to be regenerated.

Keypoints for specifying Field Properties

Below are some of the important points to be noted while specifying field properties:

1. Avoid using UI fields as LOV bind variables.
2. Avoid using separate Query data sources for single description fields. Use Description type UI fields for Description fields.
3. Ensure that Related Block and Field are given for Amount Fields. Ensure that related currency fields are placed above the amount fields in the browser tree.
4. In case the field is not required in XSD, check not Required XSD. There are cases where the field is a primary key field in a child block and does not need to be repeated in Child block. For example, the field PRODUCT_CODE in Product forms is not required in any Block other than once in the master block.

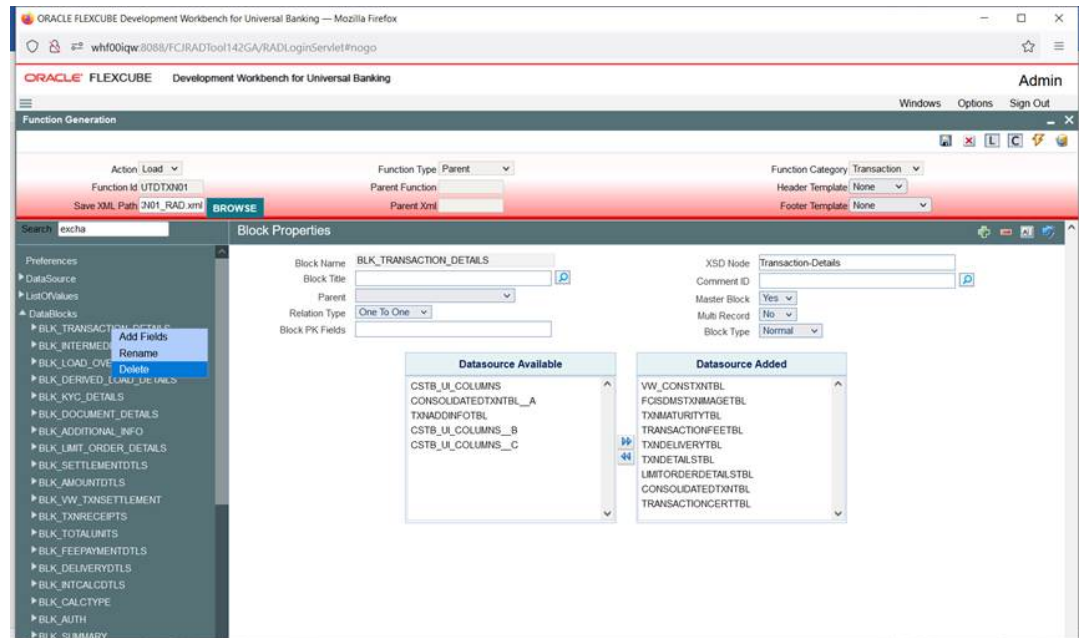
5.5 Deletion of a Data Block

This topic describes about the deletion of a data block.

Data Block can be deleted either by:

1. Selecting the delete option from the right click menu of the data block
2. By clicking on the delete icon in top right of the particular data block screen.

Figure 5-24 Deleting a Data Block



Deletion of data block will also delete all the references to any of its block fields. I.e. it may remove any of its fields attached to a field set; or the block fields used in the summary screen.

**Note:**

ODT will allow deleting the data block only if it is created in the same release .Data blocks created in any previous release cannot be deleted.

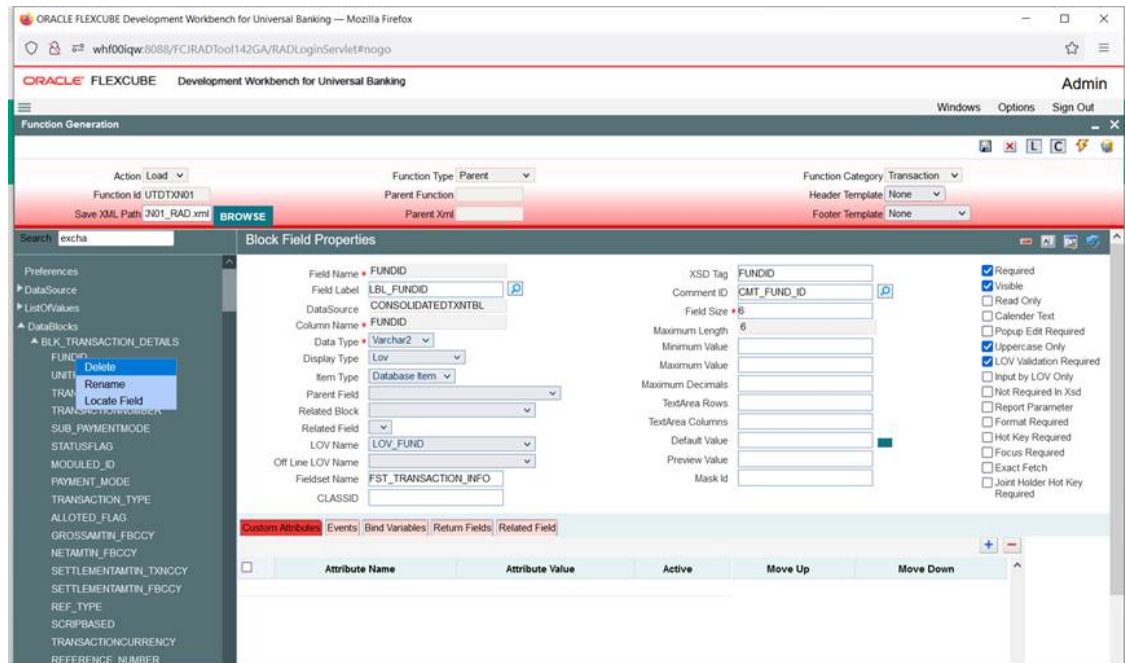
- [Deletion of Block Field](#)
This topic describes about the deletion of a data block.
- [Rename Data Block](#)
This topic provides systematic instructions to rename the Data Block and Block field.
- [Renaming of Data Block](#)
This topic describes about the renaming of data block.

5.5.1 Deletion of Block Field

This topic describes about the deletion of a data block.

Block field can also be deleted provided it satisfied the condition above. The process is similar to the deletion of data source columns. All the references to the deleted block field will also be deleted.

Figure 5-25 Deleting a Data Block Field



Since deletion of data block or block fields is not allowed in later releases, it is advised to take proper care while designing data blocks for the screen. All the units need to be regenerated after deletion of a data block or a block field.

5.5.2 Rename Data Block

This topic provides systematic instructions to rename the Data Block and Block field.

1. Right-click on the data block to be renamed and select the **Rename** option from the right-click menu.
2. Or click on the **Rename** icon on the top right portion of the data block screen to rename the Data Block.

Renaming of data block will also rename all the references to the data block. For Example:
Summary data block if renamed will reflect in the summary node also

 Note:

ODT will allow renaming the data block only if it is created in the same release. Data blocks created in any previous release cannot be renamed.

Block Properties screen displays to enter new clock name.

Figure 5-26 Block Properties

Renaming Of Block Field: The Block field can also be renamed provided it satisfied the condition above. The process is similar to the renaming of data source columns. All the references to the renamed block field will also be renamed. Since the renaming of data

block or block fields is not allowed in later releases, it is advised to take proper care while designing data blocks for the screen.

Figure 5-27 Block Field Properties

 Note:

All the units need to be regenerated after renaming a data block or a block field.

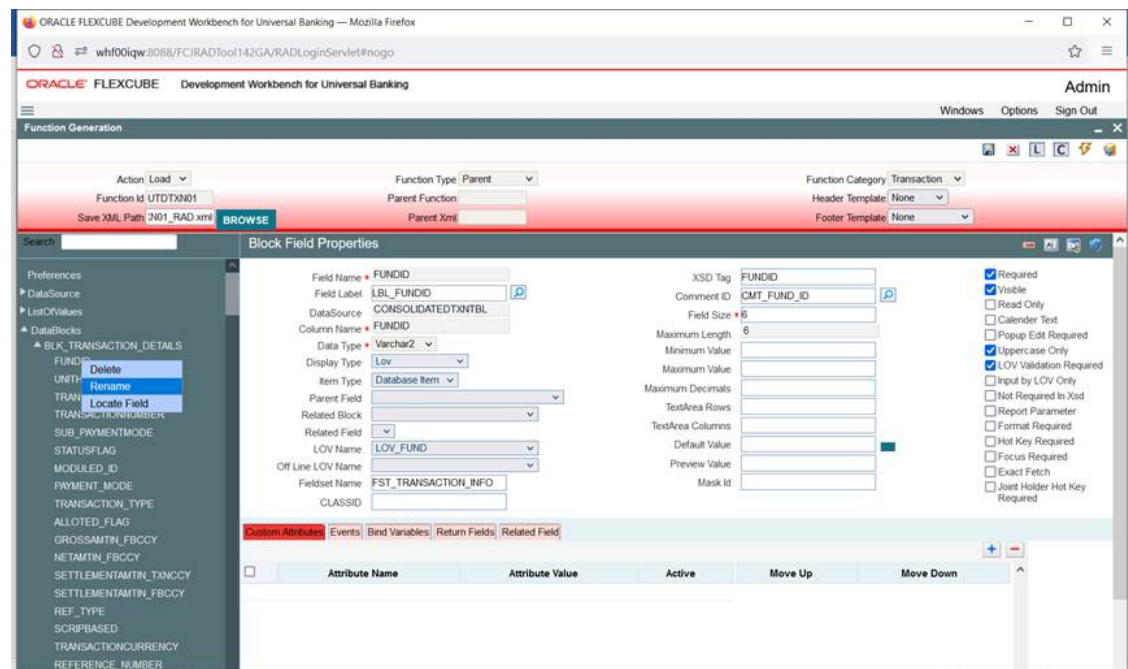
5.5.3 Renaming of Data Block

This topic describes about the renaming of data block.

Data Block can be renamed either by:

- By clicking on the rename option from the right click menu of the data block
- By clicking on the rename icon on top right portion of the data block screen

Figure 5-28 Renaming of Block Field



ORACLE FLEXCUBE Development Workbench for Universal Banking — Mozilla Firefox

whf001qw:8088/FCIRADTool142GA/RADLoginServlet#mogo

ORACLE FLEXCUBE Development Workbench for Universal Banking

Admin

Function Generation

Action: Load Function Id: UTDTXN01 Save XML Path: ZN01_RAD.xml BROWSE

Function Type: Parent Parent Function: Parent Xml:

Function Category: Transaction Header Template: None Footer Template: None

Search: Block Field Properties

Preferences

DataSource

ListOfValues

DataBlocks

BLK_TRANSACTION_DETAILS

FUNDID

DELETE

RENAME

LOCATE FIELD

TRANSACTION_DETAILS

SUB_PAYMENTMODE

STATUSFLAG

MODULED_ID

PAYMENT_MODE

TRANSACTION_TYPE

ALLOTTED_FLAG

GROSSAMTN_FBCCY

NETAMTN_FBCCY

SETTLEMENTAMTN_DNCCY

SETTLEMENTAMTN_FBCCY

REF_TYPE

SCRIPBASED

TRANSACTIONCURRENCY

REFERENCE_NUMBER

Field Name: FUNDID

Field Label: LBL_FUNDID

DataSource: CONSOLIDATEDTXNTBL

Column Name: FUNDID

Data Type: Varchar2

Display Type: Lov

Item Type: Database Item

Parent Field:

Related Block:

Related Field: LOV_FUND

LOV Name:

Off Line LOV Name:

Fieldset Name: FST_TRANSACTION_INFO

CLASSID:

XSD Tag: FUNDID

Comment ID: CMT_FUND_ID

Field Size: 6

Maximum Length:

Minimum Value:

Maximum Value:

Maximum Decimals:

TextArea Rows:

TextArea Columns:

Default Value:

Preview Value:

Mask Id:

Required

Visible

Read Only

Calendar Text

Popup Edit Required

Uppercase Only

LOV Validation Required

Input by LOV Only

Not Required In Xsd

Report Parameter

Format Required

Hot Key Required

Focus Required

Exact Fetch

Joint Holder Hot Key Required

Custom Attributes

Events

Bind Variables

Return Fields

Related Field

Attribute Name	Attribute Value	Active	Move Up	Move Down
----------------	-----------------	--------	---------	-----------

Figure 5-29 Renaming of Block Field

ORACLE FLEXCUBE Development Workbench for Universal Banking — Mozilla Firefox

whf001qw.8088/FCIRADTool142GA/RADLoginServlet#nogo

ORACLE FLEXCUBE Development Workbench for Universal Banking

Admin

Function Generation

Action: Load Function Id: UTDTXN01 Save XML Path: ZN01_RAD.xml BROWSE

Function Type: Parent Parent Function: Parent XML: Footer Template: None

Function Category: Transaction Header Template: None

Search: Block Field Properties

Preferences

- DataSource
- ListOfValues
- DataBlocks
 - BLK_TRANSACTION_DETAILS
 - FUNDID: Delete
 - UNITH: Rename
 - TRAN: Locate Field
 - TRANSACTIONCURRENCY
 - SUB_PAYMENTMODE
 - STATUSFLAG
 - MODULED_ID
 - PAYMENT_MODE
 - TRANSACTION_TYPE
 - ALLOTTED_FLAG
 - GROSSAMTIN_FBCCY
 - NETAMTIN_FBCCY
 - SETTLEMENTAMTIN_TXNCCY
 - SETTLEMENTAMTIN_FBCCY
 - REF_TYPE
 - SCRIPBASED
 - TRANSACTIONCURRENCY
 - REFERENCE_NUMBER

Field Name: FUNDID XSD Tag: FUNDID

Field Label: LBL_FUNDID Comment ID: CMT_FUND_ID

DataSource: CONSOLIDATEDTXNTBL Field Size: 6

Column Name: FUNDID Maximum Length: 6

Data Type: Varchar2 Minimum Value: Maximum Value: Text Area Rows: Text Area Columns: Default Value: Preview Value: Mask Id: Display Type: Low

Item Type: Database Item

Parent Field: Related Block: LOV Name: LOV_FUND Off Line LOV Name: FST_TRANSACTION_INFO Fieldset Name: CLASSID

Custom Attributes Events Bind Variables Return Fields Related Field

Attribute Name	Attribute Value	Active	Move Up	Move Down
----------------	-----------------	--------	---------	-----------

Since renaming of data block or block fields is not allowed in later releases, it is advised to take proper care while designing data blocks for the screen. All the units need to be regenerated after renaming of a data block or a block field.

6

Screens

This topic describes about the screens.

This topic consists of the following sub-topics:

- [Creating a New Screen](#)
This topic describes about the creating a new screen.
- [Guidelines and Best Practices](#)
This topic describes about the guidelines and best practices.
- [Deletion of Screens](#)
This topic describes the deletion of screens.
- [Renaming of Screens](#)
This topic describes about the renaming of screens.

6.1 Creating a New Screen

This topic describes about the creating a new screen.

A new screen can be created either by

- Selecting add option from the right click menu of the Screen node.
- Clicking on Add Screen icon in top right of the Screen Node screen.

Figure 6-1 Adding a New Screen

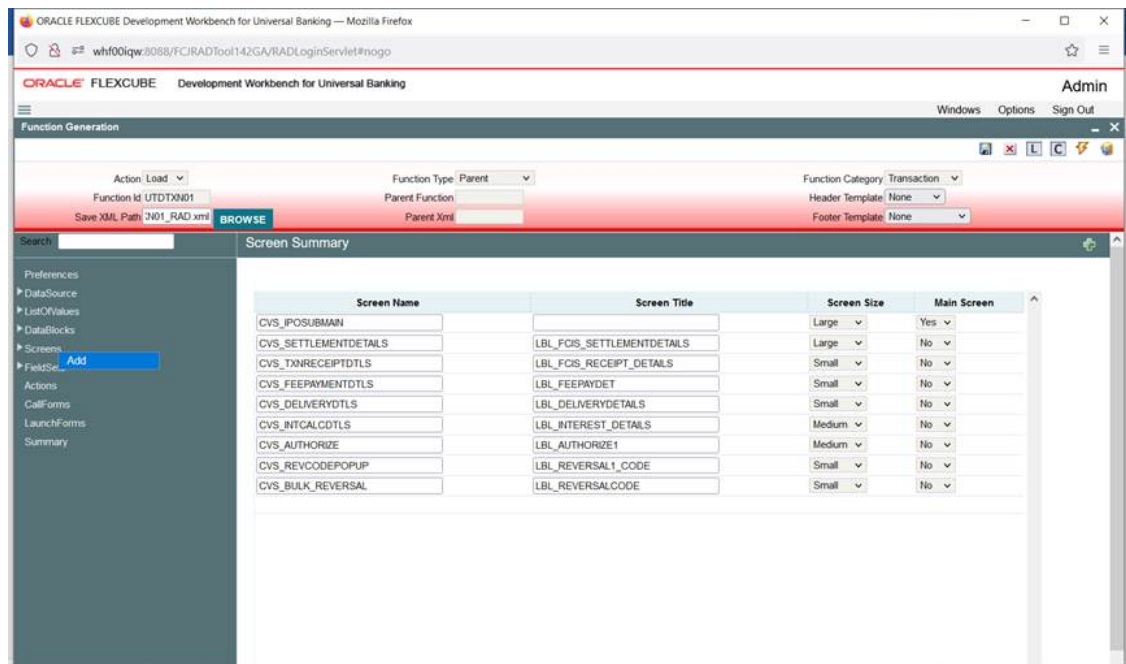
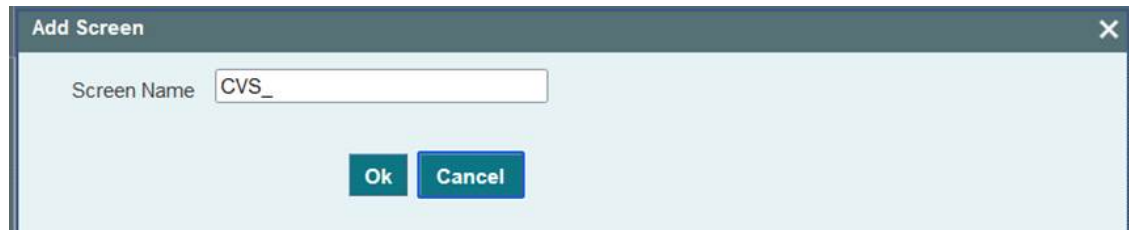


Figure 6-2 Add Screen window

Screen Name has to Screen Name should start with 'CVS_'.

Example: CVS_PREFERENCES

This topic has the following sub topics:

- [Screen Properties](#)
This topic describes about the screen properties.
- [Screen Name](#)
This topic describes about the screen name.
- [Screen Title](#)
This topic describes about the screen title.
- [Main Screen](#)
This topic describes about the main screen.
- [Visible](#)
This topic describes about the visible.
- [Screen Size](#)
This topic describes about the screen size.
- [Exit Button Type](#)
This topic describes about the exit button type.
- [Active](#)
This topic describes about the creating a new screen.
- [Tabs](#)
This topic provides an overview of tabs.
- [Sections and Partitions](#)
This topic describes about the sections and partitions.
- [Partition Details](#)
This topic describes about the partition details.
- [Multiple Screens in Same Function Id](#)
This topic describes about the multiple screens in same function Id.

6.1.1 Screen Properties

This topic describes about the screen properties.

Provide the properties of the screen as required:

6.1.2 Screen Name

This topic describes about the screen name.

This field value will be defaulted when screen is added and it is a non-editable field.

6.1.3 Screen Title

This topic describes about the screen title.

This field will have a label code for the screen title to be displayed. Label code can be selected from list of values button .The label specified will appear in the Title bar of the Screen.

6.1.4 Main Screen

This topic describes about the main screen.

This field identifies whether the screen created is the main screen for the particular function id. FLEXCUBE function id should have one Main Screen. Only the main screen will be launched from the FLEXCUBE when the function id is launched. Other screens have to be launched from the main screen by placing buttons on the main screen.

6.1.5 Visible

This topic describes about the visible.

Screens can be made invisible if it not intended to be used. The screens created in any previous release cannot be deleted. Hence visible flag has to be unchecked to achieve the same.

6.1.6 Screen Size

This topic describes about the screen size.

Depending on the number of fields in the screen, developer can choose the size of the screen. Options provided are small, medium and large.

6.1.7 Exit Button Type

This topic describes about the exit button type.

This field describes the EXIT and OK buttons for the screen. These buttons are found in the bottom right corner of the screen. If only CANCEL button is required, select Default Cancel. If both OK and CANCEL buttons are required, select Default OK Cancel If OK, REJECT and CANCEL buttons are required, select Default Ok Reject cancel. Example: contract authorization screens.

Figure 6-3 Screen Properties

Screen Details

Screen Name: CVS_IPOSUBMAIN

Screen Title: [Empty]

Screen Size: Large

Exit Button Type: Default Ok Cancel

☒ Main Screen
☐ OBIEE
☒ Visible
☒ Query Required
☐ Query all Img Required

☐	Argument Name	Source Block	Source Field	Argument Value	Target Block	Target Field
☒	[Empty]	[Empty]	[Empty]	[Empty]	[Empty]	[Empty]

Table 6-1 Screen Properties

Field Name	Description
Screen Arguments	Screen Arguments are parameters that can be passed to the screen on launching the screen. If on launch of the screen, some of the fields needs to be populated based on the screen from which it is launched, screen arguments can be used.
Arg Name	This field identifies the name of the argument. This is mandatory field for a screen argument.
Source Block	This is optional. This is used if developer wants to pass arguments between two screens in the same function id. The value from one block field (usually present as part of the parent screen) can be passed as screen argument to another block field (usually present as part of the current screen). Here the parent block field is identified using source block and source field. Source Block identifies the block name in which the source field is present. Select List provides the list of all data blocks added in the function id.
Source Field	Source Field identifies the field name whose value will be passed as the screen argument to the screen. Select List provides list of all fields in the source block selected.
Arg Value	If the argument value is hard coded, then this can be specified in this field. If argument value is specified, then source block and source field is not required. For example: action codes can be passed as screen arguments which will be hardcoded like EXECUTEQUERY.
Target Block	Target block represents the block containing the field to which argument value is assigned .This block should be part of the screen. Select list provides the list of all data blocks defined in the function Id.
Target Field	Target Filed identifies the field to which the argument will be passed. Select List provides the list of all fields in the target block.

6.1.8 Active

This topic describes about the creating a new screen.

Screen Arguments defined in an earlier release cannot be deleted. Instead, developer can make it as inactive which serves the same purpose.

Figure 6-4 Defining Screen arguments for a Screen

Argument Name	Source Block	Source Field	Argument Value	Target Block	Target Field	Active
☒ REFNO	BLK_TRANSACTION_DETAILS	REFERENCE_NUMBER		BLK_TRANSACTION_DETAILS	TRANSACTIONNUMBER	Yes

6.1.9 Tabs

This topic provides an overview of tabs.

When a developer creates a screen in the ODT, Tool will create three default portions in the screen:

- **Header**
- **Body**
- **Footer**

Figure 6-5 Fund Transfer Contract Input

FLEXCUBE screens are divided into three portions, Header, Body, and Footer and all portions can have tabs. Each portion will have default tabs. Along with these default tabs, the developer can create more tabs as required.

Following default tabs are provided:

1. For Header portion: **TAB_HEADER**
2. For Body Portion: **TAB_MAIN**
3. For Footer Portion: **TAB_FOOTER**

These tabs should not be deleted by the developer.

For creating new tabs, developer can either:

- Select add tab option from the right click menu of the screen portion (header/body/footer) node.

- Clicking on add tab icon on the top right portion of screen portion screen.

Figure 6-6 Adding Tabs to a Screen

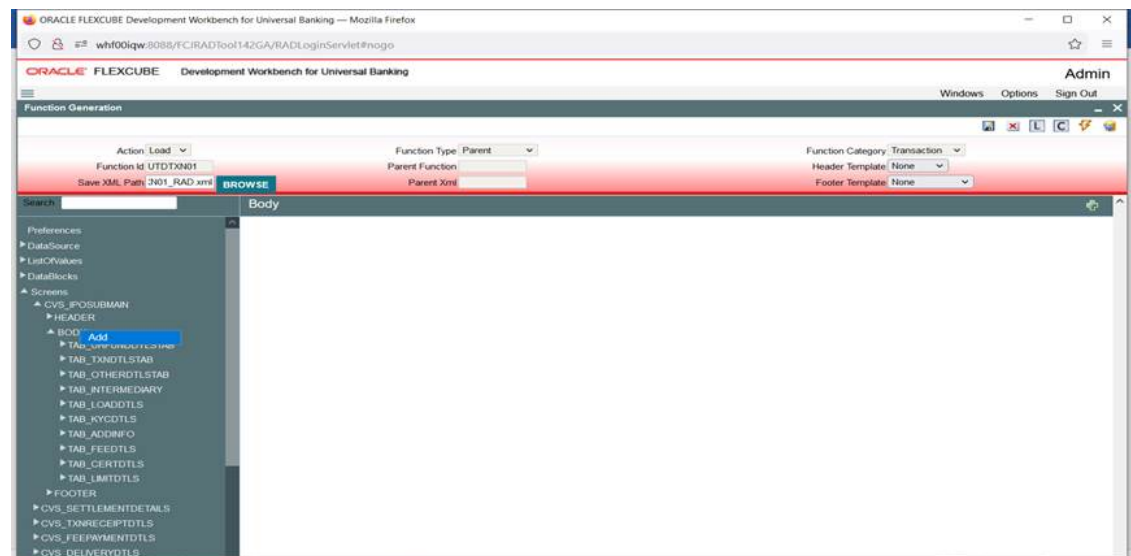
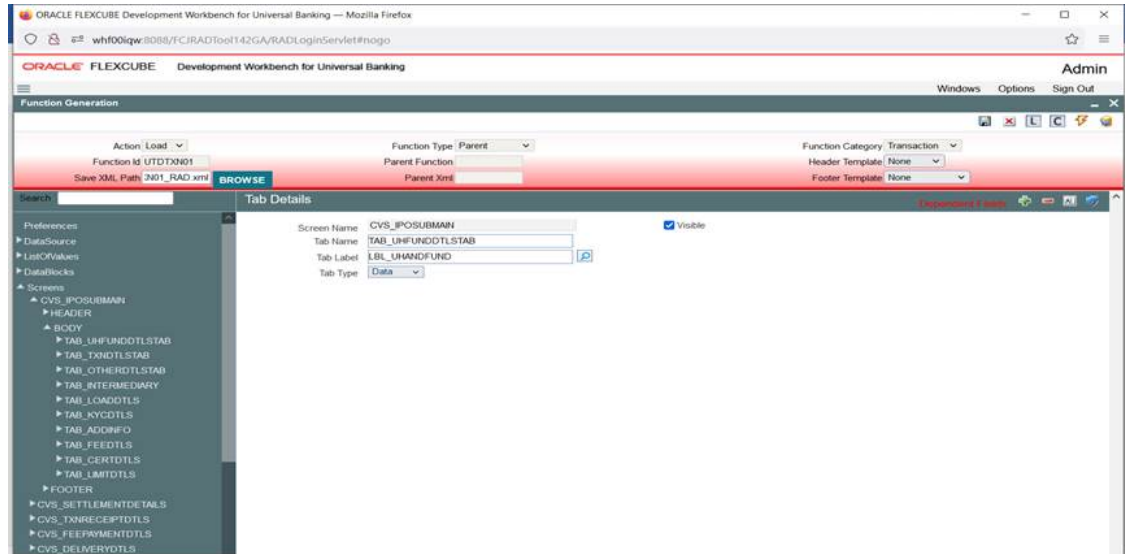


Table 6-2 Adding Tabs to a Screen

Field Name	Description
Tab Properties	Provide the properties for the tab as required.
Screen Name	This is a non-editable and will be defaulted from the screen name of which the tab is included
Tab Name	This is non editable and it shows the name of the tab provided during creation of the screen.
Tab Label	Label Code for the tab can be maintained here. Description of the Label will appear as Tab Title in the screen.
Tab Type	Tab type as data or service. Tab Type is Data for Normal case. If any call form has to be embedded in the tab (Example: Branch Screens), this can be selected as Service.
Visible	Tabs can be made invisible if it is not intended to be used. Note: The tabs created in any previous release cannot be deleted, so visible flag has to be unchecked to achieve the same.
Dependent Fields	If the tab type is service, this comes into picture. This is used to map the fields in the main screen to which this field is dependent. Please refer below image:

Figure 6-7 Tab Properties



6.1.10 Sections and Partitions

This topic describes about the sections and partitions.

Sections has to be created for each tab .Number of sections can vary depending upon the design requirement .All tabs should have at least one section Partitions should be added to each section. Number of partitions that can be added to a screen depends on the screen size When partitions are again divided, we get sub partitions Sections can be created either by:

- Selecting add section option from the right click menu for the Tab.
- By clicking on Add Section icon in top right of the Tab screen.

Figure 6-8 Adding a Section to a Tab

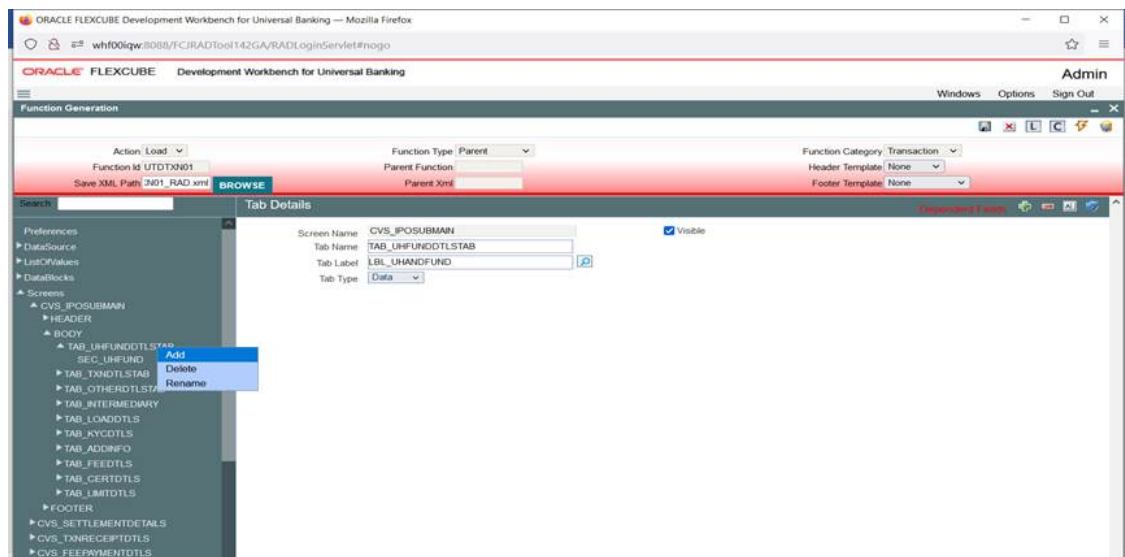
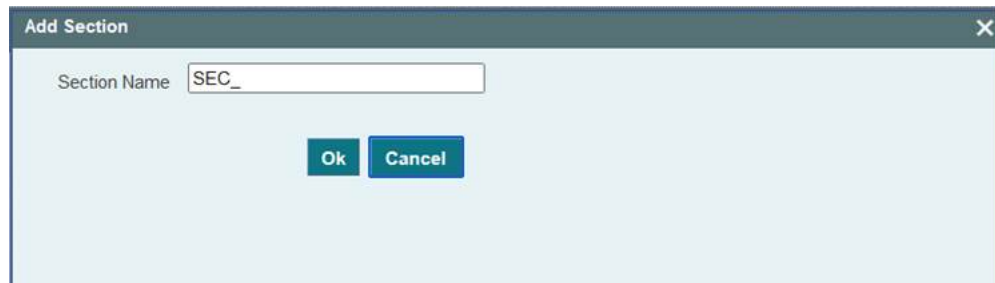
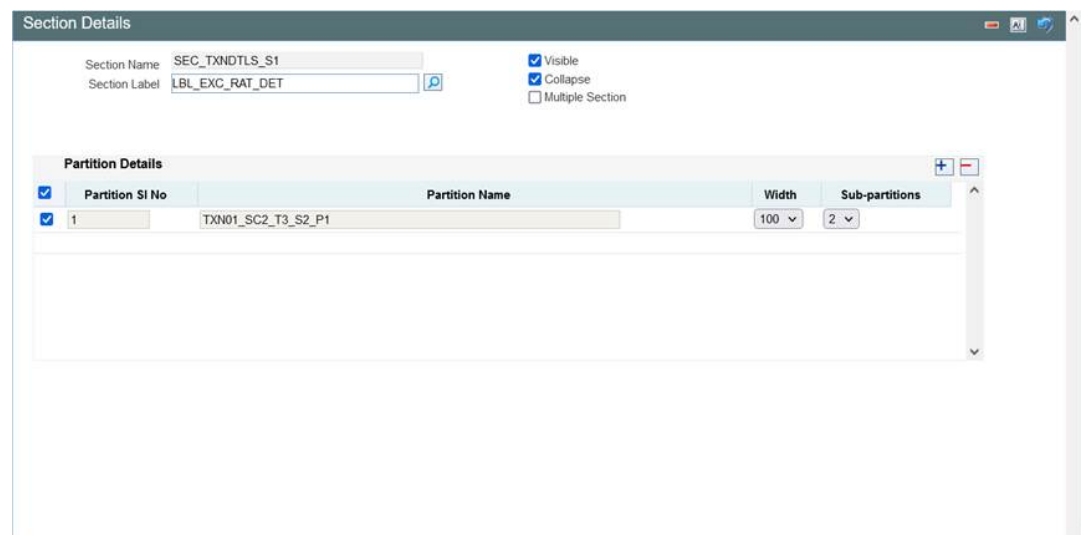


Figure 6-9 Adding Section windowA dialog box titled "Add Section" with a close button (X) in the top right corner. It contains a text field labeled "Section Name" with the value "SEC_". Below the text field are two buttons: "Ok" and "Cancel".

Provide the name of the section in add section window. Section Name should start with SEC_. Example: SEC_ONE.

- **Section Name:** This field will be defaulted based on the section name provided while creation. It is a non- editable field.
- **Collapse:** If the section has to be made collapsible, this option can be checked.
- **Visible:** If the sections are not required in the screen, it can be made invisible. Note: sections created in previous releases cannot be deleted. Hence it can be made invisible to achieve the same.
- **Multiple Section:** Fieldset attached to this section will allow only multi entry block fields to be mapped to this fieldset. Mapping for single entry block will not be allowed if multiple section option is selected. If multiple section features is to be provided for a section then this option can be selected.

Figure 6-10 Section PropertiesA dialog box titled "Section Details" with a close button (X) in the top right corner. It contains two text fields: "Section Name" with the value "SEC_TXNDTLS_S1" and "Section Label" with the value "LBL_EXC_RAT_DET". To the right of these fields are three checkboxes: "Visible" (checked), "Collapse" (checked), and "Multiple Section" (unchecked). Below these fields is a section titled "Partition Details" which contains a table with four columns: "Partition SI No", "Partition Name", "Width", and "Sub-partitions". The table has one row with the values "1", "TXN01_SC2_T3_S2_P1", "100", and "2". There are plus and minus buttons to the right of the table header.

6.1.11 Partition Details

This topic describes about the partition details.

Partitions can be added to the section. The number of partitions allowed on a section depends on screen type and screen portion.

1. For Large screen, a section in the body or header can have a maximum of 3 partitions.
2. For Large Screens, a section in the footer can have a maximum of 4 partitions.
3. For all medium and small screens, a maximum of 2 partitions is allowed.

Number of partitions mentioned above is including any sub partitions if defined; i.e. if partition is divided into 2 sub partitions; it will be treated as 2 partitions by the system.

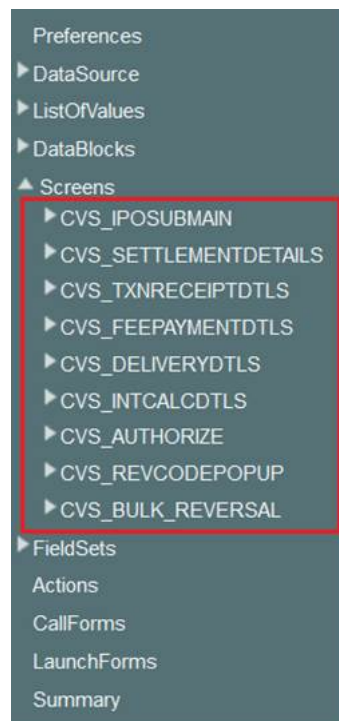
- **Partition SI No:** This will be used to identify the partition by the system. It will be defaulted by the tool. Numerical value which increments by one.
- **Partition Name:** This can be provided by the developer.
- **Width:** Width of the partition will be defaulted by the Tool depending on the number of partitions. Example: If 2 partitions, width of each will be defaulted to 50.
- **Sub Partitions:** Each partition can be subdivided into sub partition provided it does not breach the maximum partitions allowed

6.1.12 Multiple Screens in Same Function Id

This topic describes about the multiple screens in same function Id.

Multiple Screens can be designed within a single function Id.

Figure 6-11 Multiple Screens in a Function Id



While launching the function Id from FLEXCUBE; the main screen will be launched. Buttons has to be placed in the main screen. Button Events to be maintained such that on clicking the button, sub screens will

Figure 6-12 Button Events for Launching Sub Screen

The screenshot shows the 'Block Field Properties' dialog box. The 'Field Name' is 'BTN_FINDUJH' and the 'Field Label' is 'LBL_FINDUJH'. The 'Display Type' is set to 'Button' and 'Item Type' is 'Control'. The 'Custom Attributes' section is expanded to show 'Events'. A table lists the event configuration:

Event Name	Function Name	Event Type	Button Screen	CallForm Name	Screen Name
onclick	fn_FindUJH()	Normal	CVS_IPOS		

It will be launched. The button events maintained for the button can be seen in the below figure. Screen name is mentioned as the screen to be launched and the button screen is the screen where button is placed.

6.2 Guidelines and Best Practices

This topic describes about the guidelines and best practices.

Follow the below practices while designing screens:

- A function Id should have one main screen.
- Screen Name should start with 'CVS_'.
- Every screen will have three portions called Header, Body and Footer. Developer should not delete these portions.

While creating tabs, note the following

- FLEXCUBE architecture does not support multiple tabs in footer portion of the screen.
- If the screen does not have multiple tabs, then only the TAB_MAIN needs to be used. TAB_HEADER should not contain any sections in this scenario.
- If the screen is multi tabbed, TAB_HEADER and TAB_MAIN should be used while designing. TAB_HEADER denotes the header portion of the screen and TAB_MAIN should contain the main tab fields.
- TAB_HEADER, TAB_FOOTER and TAB_MAIN should not be deleted by the developer.
- If any templates are chosen for footer, TAB_FOOTER need not be manually designed.
- Order of Tabs/Sections in the screen can be re arranged by re arranging them in the tree by drag and drop

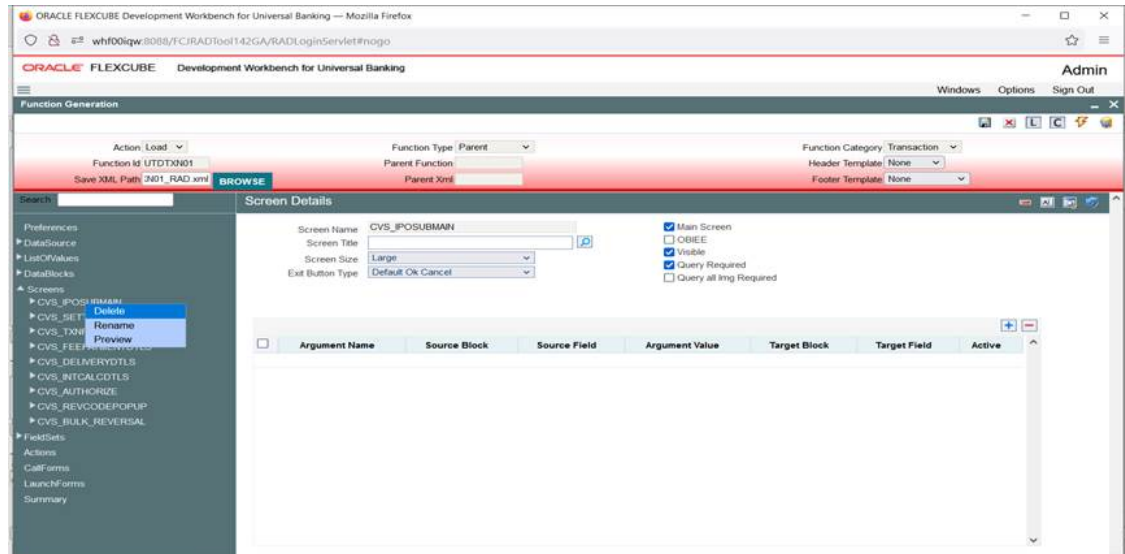
6.3 Deletion of Screens

This topic describes the deletion of screens.

Screens can be deleted either by:

1. Selecting the delete option from the right click menu of the Screen
2. By clicking on the delete icon in top right of the particular Screen

Figure 6-13 Deleting a Screen



Any reference to the particular screen in any field set will also be reset to null. Tabs and Sections can also be deleted in a similar way.



Note:

ODT will allow deletion of elements only if it is created in the same release. Otherwise tool will throw error as show below:

Figure 6-14 Error Window during Deletion of Previous Release Elements



This topic has the following sub topic:

- [Visible Flag](#)
This topic provides an overview of Visible flag.

6.3.1 Visible Flag

This topic provides an overview of Visible flag.

If in a future release, if the screen/tab/section needs to be removed, it can be made invisible by unchecking the **Visible** flag. The **Visible** flag is available at Screen, Tab, and Section levels.

Note the following when making a screen invisible:

- If a screen is made invisible, all its tabs and sections will also be made invisible. Any fieldset which is placed on the particular screen will also be made invisible.
- If the same screen is again made visible, tabs and sections still remain invisible. The developer has to manually change the tabs and sections to be visible. Fieldsets also have to be made visible manually. This is done so that if the fields attached to invisible fieldsets were attached to some other fieldset, then the particular fieldset should not be made visible as it will result in more than one fieldset containing the same field.

Note the following when making the tab invisible:

- If a tab is made invisible, all the sections under that tab will also be made invisible. Also, any field set placed in the particular tab will also be made invisible.
- If the tab is again made visible, all the sections under that tab still remain invisible. Fieldsets also remain invisible. The developer has to manually make the section and fieldsets visible as per requirement.
- Tab can be made visible only if its screen is visible. Otherwise, it throws an error.

Similarly, when a section is made invisible, all the fieldsets placed in the section will also become invisible. But when it is again made visible, the fieldsets remain invisible. The section can be made visible only if the corresponding screen and tab are visible.

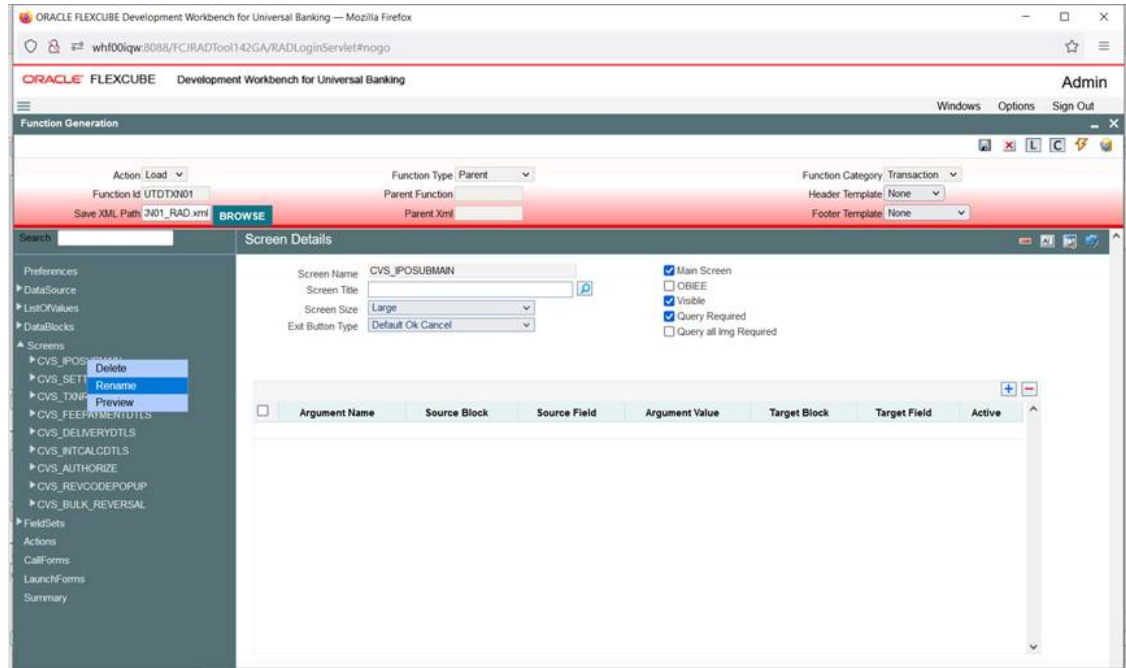
6.4 Renaming of Screens

This topic describes about the renaming of screens.

Screens can be deleted either by:

1. Selecting the rename option from the right click menu of the Screen.
2. By clicking on the rename icon in top right of the particular Screen.

Figure 6-15 Renaming of Screen



Renaming of the screen will also be reflected in any reference to the particular screen in the Radxml. Note that renaming of screens would be allowed only if they were created in the same release. Tabs and sections can be renamed in a similar way.

Field Sets

This topic describes the field sets.

Field set is a logical set of fields which would appear together in one partition of the screen layout. The blocks in a Field should be grouped as Field sets to make them appear on specific locations on the screen.

This topic has the following sub-topics:

- [Create New Field Set](#)
This topic provides systematic instructions to create a new Field Set.
- [Guidelines and Best Practices](#)
This topic describes the guidelines and best practices.
- [Renaming of Field Set](#)
This topic describes the renaming of field set.

7.1 Create New Field Set

This topic provides systematic instructions to create a new Field Set.

A fieldset is a logical set of fields that would appear together in one partition of the screen layout. The blocks in a Field should be grouped as Fieldsets to make them appear in specific locations on the screen.

1. Right-click the **Fieldset** Node and select **Add Field Set** option from the right-click menu.
2. Or click the **Add Fieldset (+)** icon in the top right corner of the Field Set Screen.

Figure 7-1 Adding a New Field Set

ORACLE FLEXCUBE Development Workbench for Universal Banking – Mozilla Firefox

whf00iqw3088/FCIRADTool142GA/RADLoginServlet?nogo

ORACLE FLEXCUBE Development Workbench for Universal Banking

Admin

Windows Options Sign Out

Function Generation

Action Load ▾
Function Id UTD0X001
Save XML Path D:\RAD xml BROWSE

Function Type: Parent ▾
Parent Function
Parent Xml

Function Category: Transaction ▾
Header Template: None ▾
Footer Template: None ▾

Search

Fieldset Summary

Preferences
Data Source
List of Values
Data Blocks
Screens
Fields

Fieldset Name	Screen Name	Screen Portion	Tab Name	Section Name	Partition Name
FST_SET_NAV	CVS_SETTLEMENTDET.	Body ▾	TAB_MAIN	SEC_NAVIGATION	SEC_NAVIGATION_3
FST_TRANSACTION_INFO	CVS_IPOSUBMAN	Header ▾	TAB_TXNHEADERTAB	SEC_TXN01_SC1_T1_S	TXN01_SC1_T1_S1_P1
FST_TRANSACTION_VALUE	CVS_IPOSUBMAN	Header ▾	TAB_TXN01HEADERTAB	SEC_TXN01_SC1_T1_S	TXN01_SC1_T1_S1_P3
FST_UHFUND	CVS_IPOSUBMAN	Body ▾	TAB_UHFUNDTLSTAB	SEC_UHFUND	TXN01_SC1_T2_S1_P1
FST_TXNDTLS_F1	CVS_IPOSUBMAN	Body ▾	TAB_TXNDTLSTAB	SEC_TXNDTLS	TXN01_SC1_T3_S1_P1
FST_TXNDTLS_F2	CVS_IPOSUBMAN	Body ▾	TAB_TXNDTLSTAB	SEC_TXNDTLS_S1	TXN01_SC2_T3_S2_P1
FST_TXNDTLS_F3	CVS_IPOSUBMAN	Body ▾	TAB_TXNDTLSTAB	SEC_TXNDTLS_S2	TXN01_SC3_T3_S3_P1
FST_OTHER	CVS_IPOSUBMAN	Body ▾	TAB_OTHERDLSTAB	SEC_OTHER	TXN01_SC1_T4_S1_P1
FST_FEEDTLS	CVS_IPOSUBMAN	Body ▾	TAB_FEEDTLS	SEC_FEEDTLS	TXN01_SC1_T9_S1_P1
FST_TXNINTERMEDIARY	CVS_IPOSUBMAN	Body ▾	TAB_INTERMEDIARY	SEC_TXNINTERMEDAR	TXN01_SC1_T5_S1_P1
FST_BTNL0AODET	CVS_IPOSUBMAN	Body ▾	TAB_LOADDTLS	SEC_BTNL0AODET	PART_1
FST_LOADDTLS_F1	CVS_IPOSUBMAN	Body ▾	TAB_LOADDTLS	SEC_LOADDTLS_S1	TXN01_SC1_T6_S1_P1
FST_LOADDTLS_F2	CVS_IPOSUBMAN	Body ▾	TAB_LOADDTLS	SEC_LOADDTLS_S2	TXN01_SC2_T6_S2_P1
FST_KYCDTLS_F1	CVS_IPOSUBMAN	Body ▾	TAB_KYCDTLS	SEC_KYCDTLS_S1	TXN01_SC1_T7_S1_P1
FST_KYCDTLS_F2	CVS_IPOSUBMAN	Body ▾	TAB_KYCDTLS	SEC_KYCDTLS_S1	TXN01_SC1_T7_S1_P1
FST_KYCDTLS_F3	CVS_IPOSUBMAN	Body ▾	TAB_KYCDTLS	SEC_KYCDTLS_S3	TXN01_SC3_T7_S3_P1
FST_ADDINFO	CVS_IPOSUBMAN	Body ▾	TAB_ADDINFO	SEC_ADDINFO	TXN01_SC1_T8_S1_P1
FST_INTDTLS	CVS_IPOSUBMAN	Body ▾	TAB_INTDTLS	SEC_INTDTLS	TXN01_SC1_T4_S4_P1

Figure 7-2 New Field Set window

3. Specify the **FieldSet Name** field and click on the **OK** button.

The standard naming convention for fieldsets is **FST_< Descriptive Code of the Field Set>**.

For Example: **FST_VERSION**

FieldSet Properties screen displays.

Figure 7-3 FieldSet Properties

4. Specify the details in the **FieldSet Properties** screen as follow:

Table 7-1 FieldSet Properties

Field	Description
FieldSet Name	This is a non-editable field. Value has defaulted from the fieldset name provided during creation.
FieldSet Label	All fieldsets can have a title to them, and the same can be mentioned in this field as label code. Label code can be selected using the list of values attached to the field. On the Field Set screen, the Title will appear as the title for a field set.
Data Block	Data block has to be selected from the select list. The select list provides the list of all data blocks in the radxml. The developer can attach fields of the data block selected to the fieldset.  Note: The data block Name cannot be modified in a future release.
Multi Record	This is a non-editable field. This will be defaulted based on the type of data block selected. If the data block is of type multi-record, the field will be set to Yes ; otherwise to No .
View Type	View Type option will be enabled only if the Multi Record is Yes . If the Multi Record is No , View Type has defaulted to Single . If Multi Record is Yes , the developer can choose the view type as either Single or Multiple View. In the Multiple View type, multi records are displayed in a table grid format. In the Single View type, only one record will be displayed at the time. Navigation buttons will be provided for viewing the next record.

Table 7-1 (Cont.) FieldSet Properties

Field	Description
FieldSet Height	The developer can provide the height of the fieldset. This is an optional field. FLEXCUBE will calculate the standard height of the fieldset depending on the number of fields and size of the screen etc. Here ODT provides the developer a provision to override the standard settings.
Number Of Rows	If the View Type is Multiple , then the number of rows in the multiple tables can be decided using the No of rows field. This is an optional field, Tool will default to 15 rows if the field value is null.
FieldSet Type	Three options are there: a. Normal: This option will be for the normal fieldsets. b. Image Set: If a field set is an Image field set then this option needs to be chosen. c. Version: If a fieldset represents the version control fieldset then the fieldset type should be version. If Fieldset Type is Version then the Selected Block must have below mentioned fields: i. VERO ii. LASTVERNO  Note: Option for Manual selection of fields will not be provided.
Screen Name	This field captures the name of the screen where the particular fieldset is to be added. Select List provides the list of all Screens created in the Radxml.
Screen Portion	Select the Screen Portion where the fieldset has to be placed.
Tab Name	Select the tab name where the fieldset has to be placed. Select List will contain all the tabs defined on the screen mentioned above.
Section Name	Select the section in the tab provided earlier to which the fieldset has to be placed. Select List provides all the sections defined in the Tab mentioned above.
Partition Name	Select the partition in the section mentioned above where the fieldset will be placed.
Horizontal FieldSet	A fieldset can be horizontal if this flag is selected. A horizontal fieldset will have fields horizontally arranged, whereas in normal fieldsets all the fields will be arranged vertically by default.
Read Only	This is applicable only fieldset is attached to the multi-record data block. The entire block can be made read-only by selecting this checkbox.
Navigation Button	This is applicable only if Multi record is Yes and the selected View Type is Single . If this check box is selected, the tool will add Previous and Next buttons to the screen. This can be used for navigating multiple records in a single view type.

Table 7-1 (Cont.) FieldSet Properties

Field	Description
Visible	If a fieldset is no longer required, it can be made invisible.  Note: ODT does not allow the developer to delete a fieldset if it is created in a previous release. Instead, the same functionality can be achieved by making it invisible. Refer below image for field set properties.

Figure 7-4 Field Set Properties

- [Attaching Field to a Field Set](#)
This topic provides an overview of the process of attaching Field to a Field Set.

7.1.1 Attaching Field to a Field Set

This topic provides an overview of the process of attaching Field to a Field Set.

Once the data block and the screen details (up to partition) in which fieldset has to be placed are identified, fields can be attached to the fieldset.

Data Block Fields

This List Select box provides all the block fields of the data block mentioned which is not yet attached to any visible fieldset. Any of the fields available in the data block fields can be moved to the fieldset fields by selecting and clicking on the move arrows. Similarly, any attached field can be removed from the fieldset by moving it back to data block fields.

Field Set Fields

This contains the list of all fields which is attached to the fieldset. The order of the fields in this grid signifies the order in which it will be displayed on the screen. Fields can be re-arranged as

per requirement. If the partition mentioned in the fieldset properties is divided into sub-partitions, then the subpartition in which the particular field has to come has to be selected from the subpartition list.

7.2 Guidelines and Best Practices

This topic describes the guidelines and best practices.

Follow the below guidelines while designing Field Sets:

1. Ensure that proper Label Code is given as title and make sure that the same is available in CSTB_LABELS.
2. Select the Screen, Section and partition and the Block from which the field set as to be created.
3. Select the fields into field set from the left text area (data block fields) to right and give the appropriate Sub partition number wherever applicable.
4. In case the field set has to be horizontal, check the Horizontal Field set Check box.
5. For multi record field sets (either single view or multiple entry view), check the Read only Check box to avoid +/- buttons.

Note:

Checking this check box would only stop the user from adding and deleting records. System would still allow modifying the fields of a row based on whether or not they are read only.

- [Delete Field Set](#)
This topic provides systematic instructions to delete the Field Set.
- [Visible Flag](#)
This topic describes the visible flag.

7.2.1 Delete Field Set

This topic provides systematic instructions to delete the Field Set.

1. Right-click on the **FieldSet** node and select the **Delete** option from the right-click menu.
2. Or click on the **Delete FieldSet (-)** icon in the top right corner of the fieldset screen.

Figure 7-5 FieldSet Properties

Note:

The deletion of the fieldset is allowed only if the fieldset is created in the same release.

The selected FieldSet gets deleted from the **FieldSet** node.

7.2.2 Visible Flag

This topic describes the visible flag.

If the field set is no longer required in any future release, then the field set can be made invisible. This serves the same purpose as deleting the field set.

Note the following while making field set as invisible:

- When a field set is made invisible, all the field set properties will be disabled. Developer won't be able to add any new field to an invisible field set; but he will be allowed remove field from the field set fields.
- If he makes the field set visible again, System validates whether the Screen, Tab and section in which the field set is placed is visible. If any of them is not, the system throws error.
- When the field set is made visible, system checks whether any of the fields attached to this field set has been re used in any other field set . If any fields are found to be attached to any other visible field set, it won't allow making the field set visible.

7.3 Renaming of Field Set

This topic describes the renaming of field set.

Field Set can be renamed by either:

1. Selecting the rename option from the right click menu of the particular Field Set.
2. Clicking on the Rename Field Set Icon in Top right corner of the Field Set Screen.

Figure 7-6 Renaming of Field Set

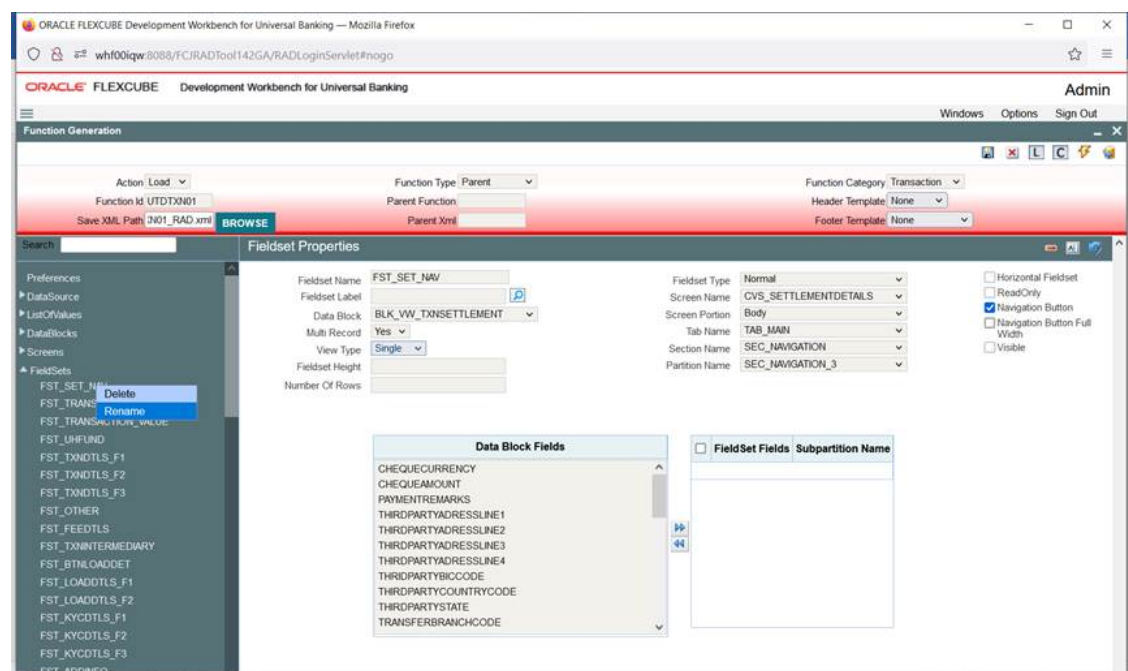
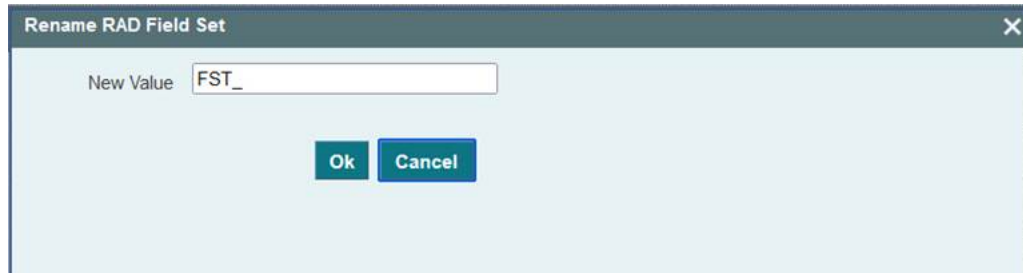


Figure 7-7 Renaming of Field Set



Rename RAD Field Set

New Value

Ok Cancel



Note:

Renaming of field set is allowed only if the field set is created in the current release.

8

LOVs

This topic provides an overview of the List of Values (LOVs).

FLEXCUBE supports two types of List of Values (LOVs):

1. **Global LOVs:** These are LOVs defined in the system which can be used across all the functions. Global LOVs are stored in **CSTB_LOV_INFO** with function id as **COMMON**.
2. **Local LOVs:** These are defined in particular to the function Id. They are defined in the function Id and can be attached to any field in the function Id as per requirement.

This topic has the following sub-topics:

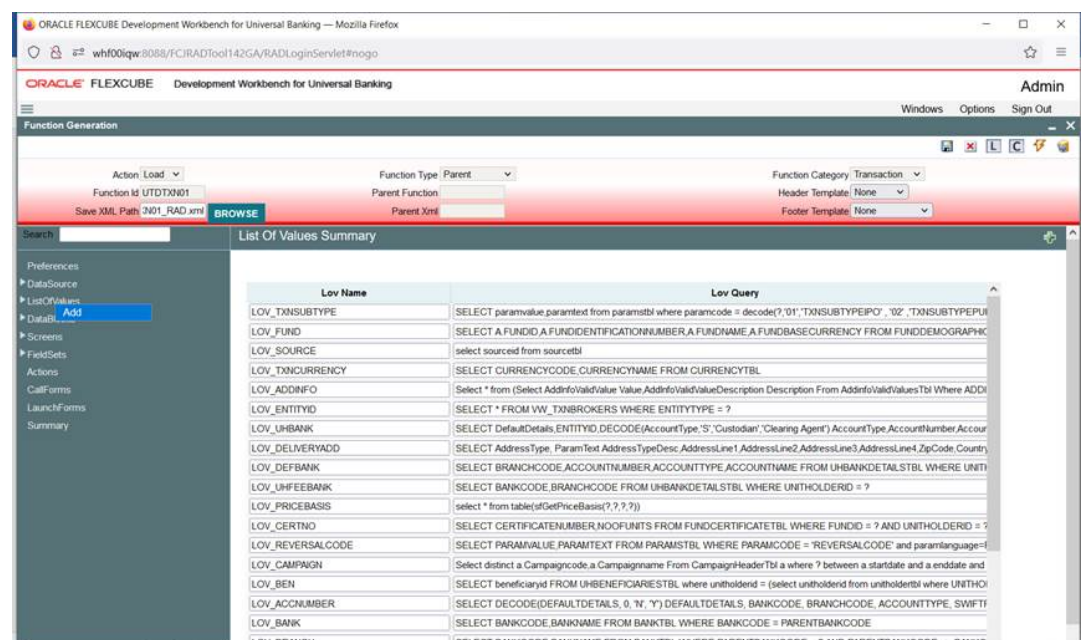
- [Define LOVs](#)
This topic provides systematic instructions to define LOVs.
- [LOVs- Guidelines and Best Practices](#)
This topic provides a list of guidelines for defining LOVs.
- [Delete and Rename LOVs](#)
This topic describes the process of deletion and renaming LOVs.

8.1 Define LOVs

This topic provides systematic instructions to define LOVs.

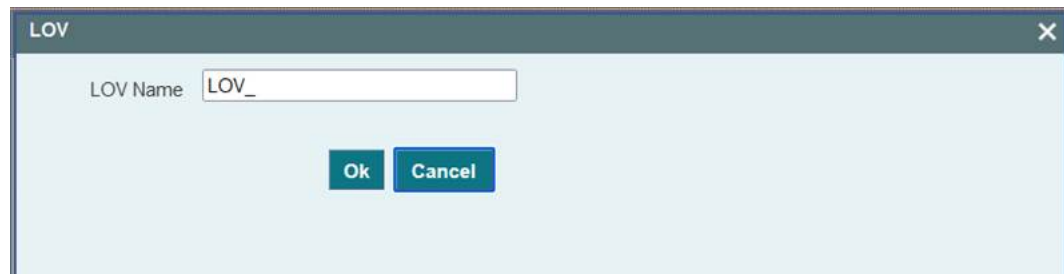
1. Right-click on the **ListOfValues** node and select **Add** option from the right-click menu.
2. Or click on the **Add (+)** icon in the top right portion of the LOV grid screen.

Figure 8-1 Adding a new LOV



LOV window displays.

Figure 8-2 Add LOV window



3. Specify the **LOV Name** field and then click on **OK** button.

LOV name should start with **LOV_**.

For Example: **LOV_COUNTRY**

List Of Values Details screen displays.

Figure 8-3 List Of Values Details

4. Specify the fields in the **List Of Values Details** screen.

Table 8-1 List Of Values Details

Field	Description
LOV Name	This is a non-editable field. It will be defaulted based on the LOV name provided while creating LOV.
LOV Query	LOV query has to be provided in this field. Bind variables for the LOV have to be specified as ?. Bind variables are the parameters whose values are required as input for executing the query during run time. For Example: SELECT CUSTOMER_TYPE FROM STTM_CUSTOMER WHERE CUSTOMER_NO=? Here value for Customer No is to be passed as a parameter.
LOV Column Details	Click on Populate button. This will default all the columns which will come in the output of the LOV query. For Example: for the above query, it will populate only one row with Query Cols value as CUSTOMER_TYPE. Refer below table for more information:

Table 8-2 LOV Column Details

LOV Column Details	Description
Query Cols	This is a non-editable field. This will be populated by the system on clicking of Populate button. All the columns from the query result will be populated as query cols.

Table 8-2 (Cont.) LOV Column Details

LOV Column Details	Description
Data Type	This row will also be defaulted based on the LOV query. The data type of the query cols has to be provided here.
Visible	The Result Column of the LOV can be made invisible by specifying in this column.
Reduction Fld	A field can be made as a reduction of non-reduction by using this flag. If the field is a reduction field, then in the LOV screen in FLEXCUBE, the user will have to filter the list of values based on the reduction fields.
Reduction Fld Type	The display type of the reduction field can be specified here. Display type of the reduction field can be either of the below-given values: • TEXT • CHECK BOX • RADIO • SELECT
Redn/Col Label	The reduction fields should be provided with proper labels so that their description comes on the LOV screen. Label Codes have to be mandatorily maintained for the functioning of the LOV screen.
Is Mandatory	If the reduction field id is selected as YES , ODT will allow selecting the Is Mandatory option for a particular column. If Is Mandatory is selected as Yes , ODT will ask for minimum search character length. By default, the value is 3. If the field is mandatory and minimum search character length is given as n, then while searching, the user has to enter a minimum of n characters to search a particular value otherwise the system will show an error message.
Minimum Search Character length	If Is Mandatory is selected as YES , then only ODT will allow entering values for Min search character length. By default, the value is 3. Any value less than 3 will not be accepted. ODT will show an alert message in case of any rule violation. Once the value for the Minimum search character length field is provided, the user has to enter minimum character length to fetch a value corresponding to that return field. Refer below image for more information:

Figure 8-4 Sample LOV Screen illustrating Reduction Fields

ORACLE FLEXCUBE Development Workbench for Universal Banking

Function Generation

Action: Load Function Id: UTDTXN01 Save XML Path: 2101_RAD.xml BROWSE

Function Type: Parent Parent Function: Parent Xml:

Function Category: Transaction Header Template: None Footer Template: None

Search: List Of Values Details

LOV Name: LOV_TNSUBTYPE LOV Query: SELECT paramvalue,paramtext from paramtbl where paramcode = decode(?,'01','TNSUBTYPEIPO','02','TNSUBTYPEPURCHASE','03','U' LOV Type: Internal

Query Columns	Data Type	Visible	Reduction Field	Reduction Field Type	Reduction/Column Label	Is Mandatory	Min No.
☐ PARAMVALUE	VARCHAR2	Yes	Yes	TEXT	LBL_TRANSACTIONTYPE	No	
☒ PARAMTEXT	VARCHAR2	Yes	Yes	TEXT	LBL_TRANSACTIONTYPEDESC	No	

Populate

Figure 8-5 Sample LOV Screen illustrating Reduction Fields

Label Code

Label Code: %LBL_FIELD% Label Description:

Search Reset

<< < 3 of 22 > >>

Label Code	Label Description
LBL_FIELD_NUMBER_1	Field Number 1
LBL_FIELD_NUMBER_10	Field Number 10
LBL_FIELD_NUMBER_11	Field Number 11
LBL_FIELD_NUMBER_12	Field Number 12
LBL_FIELD_NUMBER_13	Field Number 13
LBL_FIELD_NUMBER_14	Field Number 14
LBL_FIELD_NUMBER_15	Field Number 15
LBL_FIELD_VAL_155	Field Value 155
LBL_FIELD_VAL_156	Field Value 156
LBL_FIELD_VAL_157	Field Value 157
LBL_FIELD_VAL_158	Field Value 158
LBL_FIELD_VAL_159	Field Value 159
LBL_FIELD_VAL_16	Field Value 16
LBL_FIELD_VAL_160	Field Value 160
LBL_FIELD_VAL_161	Field Value 161

LOVs have to be attached to the block field as per requirement.

- In the block field, select the **Display Type** as **LOV** to attach LOV to the Block Field.

Figure 8-6 Block Field Properties

6. Specify the below given details in the Block Field Properties screen:

Table 8-3 LOV Details

Field	Description
LOV name	Select List will contain both Local LOVs and Global LOVs . The developer has to select the LOV as required for the field.
Input By LOV Only	This field has to be checked if the field has to be input through LOV only.
LOV Validation Reqd	If validation for the entered value is required against the values fetched from the LOV query, this checkbox can be checked.
Bind Variables	Bind variables defined in the LOV query have to be mapped to the corresponding data block field. During LOV query execution, the value of these data blocks will be picked up in place of bind variables (?). Click on the button Default from LOV Definition. The number of rows corresponding to the number of bind variables in the query will be created. Below details has to be maintained in the bind variable tab: • Block Name: The block which contains the bind variable block field has to be selected from the list of all data blocks. • Bind Variable: The block field which is the bind variable has to be selected from a list of fields of the block selected. • Data Type: The data type of the bind variable has to be mentioned here. This can be STRING, DATE, NUMBER, etc. If more than one bind variable is present in the LOV query, bind variables have to be provided in the same order as it appears in the LOV query. Refer below image for more information:
Return Fields	Information regarding the return fields has to be provided in the Return Fields Tab. The developer has to map the block fields to which the selected values from LOV should be assigned. Click on the button Default from LOV Definition. All Query Cols will be defaulted based on the LOV definition. • Query Column: This will be defaulted by the system based on the LOV definition on clicking Default button. • Block Name: Provide the Block Name which contains the field to which the particular column value has to assigned. • Return Fld Name: Select the data block field to which the result will be assigned. All the query Cols need not have a return field. Refer below image for more information:

Figure 8-7 Attaching LOV to a Block Field: Specifying bind variables

Block Field Properties

Field Name: TRANSACTION_SUBTYPE
 Field Label: LBL_TRANSACTION_SUBTYF
 DataSource: CONSOLIDATEDTXNTBL
 Column Name: TRANSACTIONSUBTYPE
 Data Type: Varchar2
 Display Type: Lov
 Item Type: Database Item
 Parent Field:
 Related Block:
 Related Field:
 LOV Name: LOV_TXNSUBTYPE
 Off Line LOV Name:
 Fieldset Name: FST_TRANSACTION_INFO
 CLASSID:

XSD Tag: TRANSACTION_SUBTYPE
 Comment ID: CMT_TRANSACTIONTYPE
 Field Size: 1
 Maximum Length: 1
 Minimum Value:
 Maximum Value:
 Maximum Decimals:
 TextArea Rows:
 TextArea Columns:
 Default Value:
 Preview Value:
 Mask Id:

☐ Required
☒ Visible
☐ Read Only
☐ Calendar Text
☐ PopUp Edit Required
☐ Uppercase Only
☒ LOV Validation Required
☐ Input by LOV Only
☐ Not Required In Xsd
☐ Report Parameter
☐ Format Required
☐ Hot Key Required
☐ Focus Required
☐ Exact Fetch
☐ Joint Holder Hot Key Required

Custom Attributes: Events **Bind Variables** Return Fields Related Field

Bind Variables Mapping

Block Name	Bind Variable	Data Type
☒ BLK_TRANSACTION_DETAILS	TRANSACTION_TYPE	STRING

Figure 8-8 Attaching LOV to a Block Field: Specifying Return Fields

Block Field Properties

Field Name: TRANSACTION_SUBTYPE
 Field Label: LBL_TRANSACTION_SUBTYF
 DataSource: CONSOLIDATEDTXNTBL
 Column Name: TRANSACTIONSUBTYPE
 Data Type: Varchar2
 Display Type: Lov
 Item Type: Database Item
 Parent Field:
 Related Block:
 Related Field:
 LOV Name: LOV_TXNSUBTYPE
 Off Line LOV Name:
 Fieldset Name: FST_TRANSACTION_INFO
 CLASSID:

XSD Tag: TRANSACTION_SUBTYPE
 Comment ID: CMT_TRANSACTIONTYPE
 Field Size: 1
 Maximum Length: 1
 Minimum Value:
 Maximum Value:
 Maximum Decimals:
 TextArea Rows:
 TextArea Columns:
 Default Value:
 Preview Value:
 Mask Id:

☐ Required
☒ Visible
☐ Read Only
☐ Calendar Text
☐ PopUp Edit Required
☐ Uppercase Only
☒ LOV Validation Required
☐ Input by LOV Only
☐ Not Required In Xsd
☐ Report Parameter
☐ Format Required
☐ Hot Key Required
☐ Focus Required
☐ Exact Fetch
☐ Joint Holder Hot Key Required

Custom Attributes: Events **Return Fields** Related Field

Return Fields Mapping

Query Column	Block Name	Return Field Name
☐ PARAMVALUE	BLK_TRANSACTION_DETAILS	TRANSACTION_SUB
☒ PARAMTEXT	BLK_TRANSACTION_DETAILS	SUBTYPEDESCRIPT

In the figure below **AC_GL_NO** is mapped to the CRACC field. Therefore the value of the result column **AC_GL_NO** from the selected record will have defaulted to the CRACC field.

Figure 8-9 Block Field Properties

LOV Details will be generated in the script for **CSTB_LOV_INFO** which needs to be compiled in the FLEXCUBE schema for the functioning of LOVs.

8.2 LOVs- Guidelines and Best Practices

This topic provides a list of guidelines for defining LOVs.

Note the following points while defining LOVs:

- Avoid using in-line views.
- Avoid order by clause, as the same can be chosen by the user at run time.
- Select proper Label Codes and ensure that the same are available in **CSTB_LABELS**.

8.3 Delete and Rename LOVs

This topic describes the process of deletion and renaming LOVs.

Deletion and Renaming of LOVs can be done provided they are created in the same release.

The procedure for deletion/renaming is similar to those of data blocks, refer below given topics:

- Delete Data Block
- Rename Data Block

9

Call Forms

This topic provides an overview of Call Forms.

Call forms are function IDs that do processing which is common across many screens. Call forms cannot be launched independently. They need to be launched from another function Id. The third letter of the function id will be C for a call form. Most of the subsystems of contract screens are designed as call forms.

For Example: Settlement Screen, tax details, etc.

This topic has the following sub-topics:

- [Attach Call Forms](#)
This topic provides systematic instructions to attach Call Forms.
- [Call Form- Guidelines and Best Practices](#)
This topic provides a list of guidelines and best practices for attaching the Call Form to the Screen.

9.1 Attach Call Forms

This topic provides systematic instructions to attach Call Forms.

1. Click on the **Add (+)** icon in the **Call Form Details** screen to add Call form.
Call forms to be attached to a function Id has to be maintained in the Call form node.
Call Form Details screen displays.

Figure 9-1 Attaching Call Forms to the Function Id

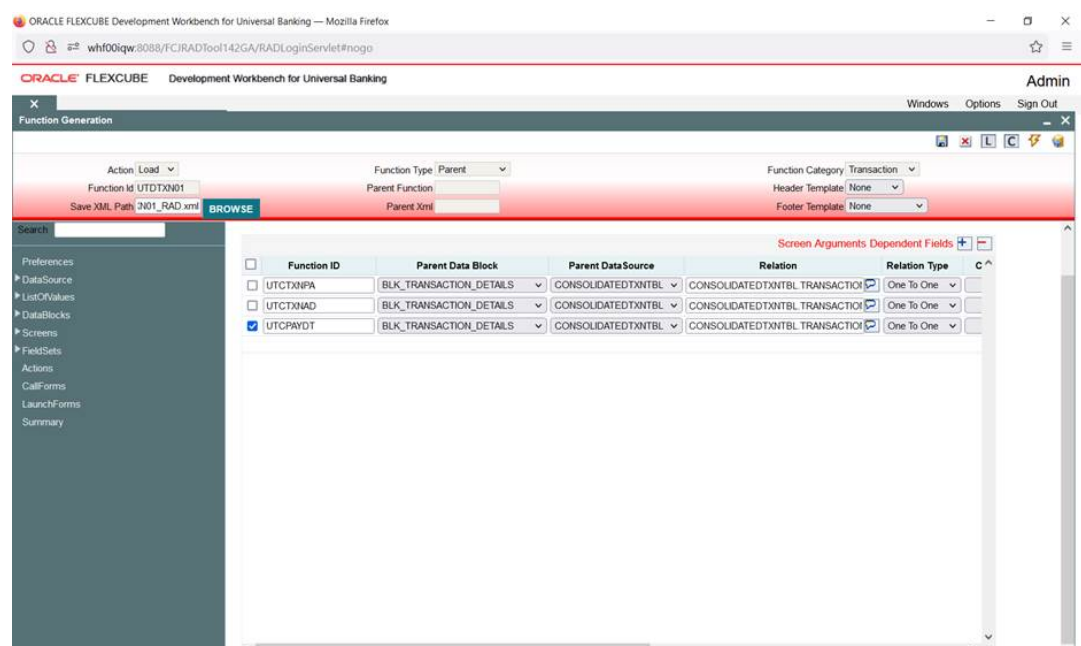
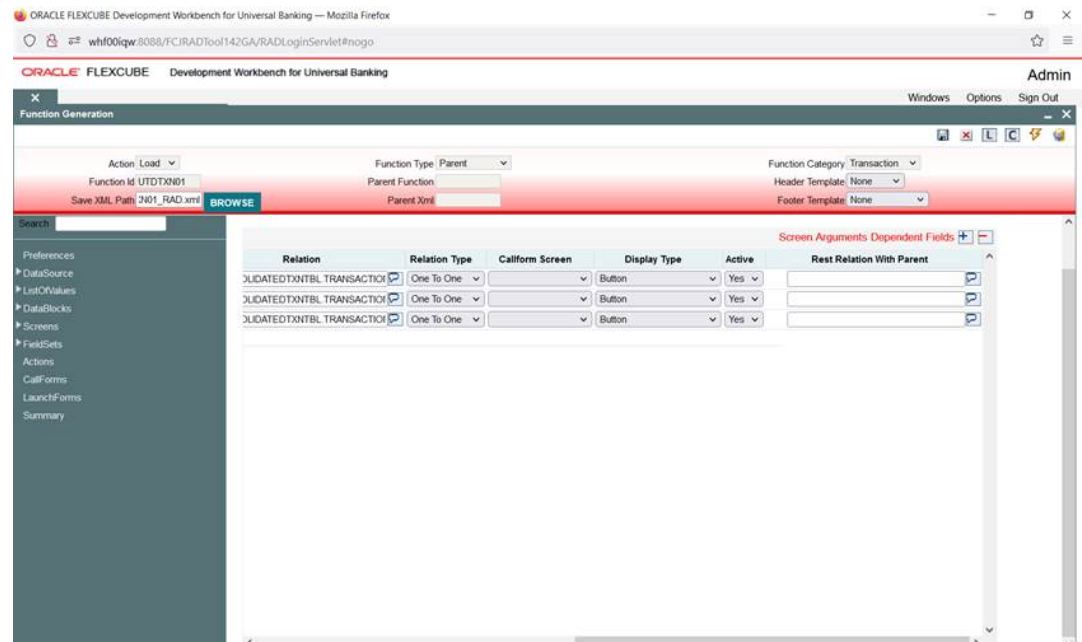


Figure 9-2 Attaching Call Forms to the Function Id



- Specify the details in the **Call Form Details** screen.

Table 9-1 Call Form Details

Field	Description
Function Id	Provide the call form name which has to be attached to the main screen here.
Parent Data Block	The parent data source has to be mentioned for the call form master data source. In most cases, this would be the master data source of the main function itself.
Relation Type	The relation type between the parent data source and call from master data source has to be provided here.  Note: Relation Type has to be One to One as Multi Record Master Blocks are not supported for call forms.
Call Form Screen	The screen name of the call form that has to be launched has to be mentioned here. In most cases, this will be the main screen of the call form.
Display Type	Call form type has to be specified as either button or the tab name. In the case of a button, a button needs to be created and the Call form's name has to be mentioned in the Call form field for the button events. Tab type of call form is currently for Branch screens only and in which case, no button is required and Oracle FLEXCUBE infra would handle the same and embed the call form under the mentioned tab. Refer below image for more information:
Active	Call forms from previous releases cannot be deleted. So, if they are not required, the Active can be turned off.

Table 9-1 (Cont.) Call Form Details

Field	Description
Screen Arguments	Whenever a Sub-Screen or Call form is launched from the main screen, there would be a necessity to send a value from the calling function to the call form. This can be provided in the screen arguments window. Select the Call Form and click on the Screen Argument window. The window allows the user to enter Screen Argument Name, and select Source block and field from which the value has to be taken. The user also has an option to directly give the value for the Screen Argument in the Argument Value field. Click on the Populate button. This will default the screen arguments for the call form as maintained in the CSTB_CALL_FORM_NODES table for the particular call form. The Reset button takes the screen to the initial state. All the entries made will be deleted. • Argument Name: This will be defaulted based on the screen arguments specified for call form main screen maintained in CSTB_CALL_FORM_NODES. • Source Block & Source Field: Provide the block Name and source field of the function id whose value will be passed to the screen argument mentioned. • Argument Value: If the screen argument value is to be hardcoded, then the value can be mentioned in this field. In this scenario, source block and source field need not be mentioned.
Dependent Fields	Subsystems may depend on the value provided in fields in main function id or another subsystem. For Example: For the funds transfer contract input screen, account details are provided in the main function id. On clicking of the settlement subsystem, settlements will be defaulted based on the accounts mentioned on the main screen. So settlement subsystem is dependent on the account fields. It may also depend on the taxes applicable which are provided in another subsystem for the same .i.e. the Tax subsystem. Hence if dependent fields are changed, the subsystem needs to be defaulted based on the latest values yet again before saving. This can be achieved by maintaining the dependent fields and subsystems for a particular subsystem in the Dependent On screen. FLEXCUBE Infra will handle the subsystem to be picked up accordingly. As shown in the below figure, dependent fields in the main function id have to be mentioned in the Fields table. Block Name and Field Name has to be mentioned to identify the exact field. Any other subsystems (call forms) on which it is dependent can be mentioned in the Services table.

Figure 9-3 Maintaining button events for launching Call form screens

Block Field Properties

Field Name:
Field Label:
DataSource:
Column Name:
Data Type:
Display Type:
Item Type:
Parent Field:
Related Block:
Related Field:
LOV Name:
Off Line LOV Name:
Fieldset Name:
CLASSID:

XSD Tag:
Comment ID:
Field Size:
Maximum Length:
Minimum Value:
Maximum Value:
Maximum Decimals:
TextArea Rows:
TextArea Columns:
Default Value:
Preview Value:
Mask Id:

☐ Required
☒ Visible
☐ Read Only
☐ Calendar Text
☐ PopUp Edit Required
☐ Uppercase Only
☐ LOV Validation Required
☐ Input by LOV Only
☐ Not Required In Xsd
☐ Report Parameter
☐ Format Required
☐ Hot Key Required
☐ Focus Required
☐ Exact Fetch
☐ Joint Holder Hot Key Required

Custom Attributes: **Events**

Event Name	Function Name	Event Type	Button Screen	CallForm Name	Screen Name
☒ onclick	fn_FindUH()	Normal	CVS_IPOS		

Figure 9-4 Passing Screen Arguments to Call Form Screen

Call Form Arguments

Argument Name	Source Block	Source Field	Argument Value
USERREF	BLK_TRANSACTION_DETAILS	REFERENCE_NUMBER	

Figure 9-5 Maintaining Dependent Fields Information for a Call Form

The screenshot shows a dialog box titled "Depends On" with a close button (X) in the top right corner. It contains two main sections: "Fields" and "Services".

Fields Section: This section has a "Populate" button in red text. It contains a table with two columns: "Block Name" and "Field Name". The first row shows "BLK_TRANSACTION_DETAILS" in the "Block Name" column and "REFERENCE_NUMBER" in the "Field Name" column. Both rows have a checked checkbox in the left margin.

Services Section: This section also has a "Populate" button in red text, along with "+" and "-" buttons. It contains a table with a "Service" column. The first row shows "UTCTXNPA" in the "Service" column. This row has a checked checkbox in the left margin.

At the bottom of the dialog box are "Ok" and "Cancel" buttons.

9.2 Call Form- Guidelines and Best Practices

This topic provides a list of guidelines and best practices for attaching the Call Form to the Screen.

Note the following points while attaching the call form to the screen:

- A maintenance Call form should be attached only to a maintenance function. Similarly, only transaction call forms can be attached to a transaction screen.
- Static Scripts for **CSTB_CALL_FORM_NODES** and **SMTB_MENU** generated by the Call Form Radxml has to be compiled in the FLEXCUBE schema before attaching that call form to any screen. Call form details are populated based on the maintenance in these tables. Therefore ensure that data is present in **CSTB_CALL_FOR_NODES** and **SMTB_MENU** for all the attached call forms.

10

Launch Forms

This topic provides an overview of launch forms.

Launch Forms are function ids which can be launched from another screen for data view purpose. No processing can be done on Launch Form screen data as done in Call form. Launch Form is like any other normal function id and it can be launched independently.

For Example: Screen for viewing accounting entries for a transaction.

This topic has the following sub-topics:

- [Attach Launch Forms](#)
This topic provides systematic instructions to attach launch forms.
- [Launch Forms- Guidelines and Best Practices](#)
This topic provides a list of guidelines for attaching Launch Forms.

10.1 Attach Launch Forms

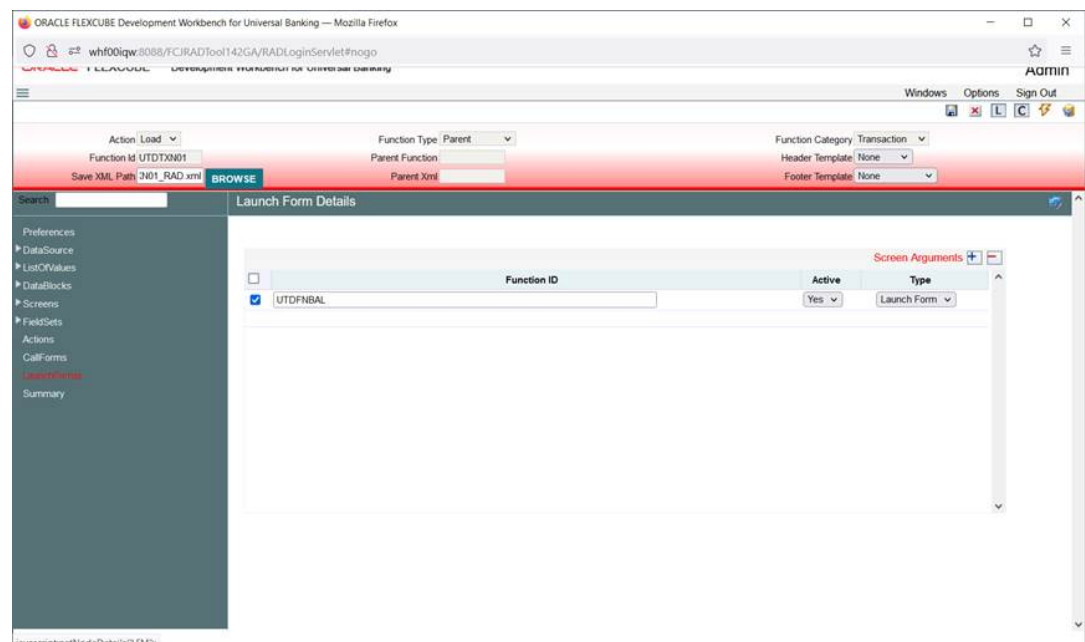
This topic provides systematic instructions to attach launch forms.

1. Click on the **Add (+)** icon in the **Launch Form Details** screen to add Launch form.

Launch Forms to be attached to a function Id has to be maintained in the Launch Form node.

Launch Form Details screen displays.

Figure 10-1 Attaching Launch forms to a Function Id



2. Specify the details in the **Launch Form Details** screen.

Table 10-1 Launch Form Details

Field	Description
Function ID	The name of the Launch Form function id to be attached has to be specified here.
Active	Launch Forms attached in one release cannot be removed in a future release. Instead, the active flag can be set as NO to achieve the same.
Screen Arguments	Launch Form is used for query purposes only. Thus primary key and the action code have to be passed on to the Launch form screen on launching Launch Form. Select the Launch Form and click on the Screen Arguments button. The following screen will be launched. Click Populate button to default the screen arguments. Note: The Screen arguments for the Launch Form have to be maintained in the CSTB_CALL_FORM_NODES table. • Argument Name: This will be defaulted based on the screen arguments specified for Launch Form main screen maintained in CSTB_CALL_FORM_NODES. • Source Block & Source Field: Provide the block Name and source field of the function id whose value will be passed to the screen argument mentioned. • Argument Value: If the screen argument value is to be hardcoded, then the value can be mentioned in this field. In this scenario, source block and source field need not be mentioned.
Attaching Launch form to Main Screen Using Button	Launch forms can be launched by clicking on the button placed on the main screen. Button events have to be maintained such that Launch Form will be launched on clicking it.

Figure 10-2 Passing Screen Arguments to Launch Form

Argument Name	Source Block	Source Field	Argument Value
UHHID	BLK_TRANSACTION_DETAILS	UNITHOLDER_ID	
ACTION_CODE			EXECUTEQUERY

Figure 10-3 Maintaining Button Event for launching Launch Form screen

Event Name	Function Name	Event Type	Button Screen	CallForm Name	Screen Name
onclick	fnAllocDtIs()	Callform	CVS_IPOS	UTCTXNAD	CVS_ALLOCD

10.2 Launch Forms- Guidelines and Best Practices

This topic provides a list of guidelines for attaching Launch Forms.

Note the following points while attaching Launch Forms:

- Entry has to be made manually in **CSTB_CALL_FORM_NODES** for the launch form. The script won't be generated by the Tool while designing the Launch Form. Hence it has to be inserted manually providing the screen arguments as maintained for Launch Form main screen.
- 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 the launch Form screen should be passed as the other parameters.

11

Actions

This topic describes the actions.

Web Service related information and FLEXCUBE amendable fields details are captured in the actions screen.

This topic has the following sub-topics:

- [XSD Type Identifier](#)
This topic describes the XSD type identifier.
- [Amendable Field Information](#)
This topic describes about the amendable field information.

11.1 XSD Type Identifier

This topic describes the XSD type identifier.

A unique descriptive code should be given in this field, which would describe the nature of the Function. For example: LCProd For LC Product Definition Form Screen Layout Design.

This topic has the following sub-topics:

- [Service Name](#)
This topic describes about the service name.
- [Operation Id](#)
This topic describes about the operation Id.
- [Action Code](#)
This topic describes about the action code.
- [Operation Code](#)
This topic describes about the operation code.
- [Action Stage Type](#)
This topic describes about the action stage type.

11.1.1 Service Name

This topic describes about the service name.

Appropriate Web service name should be selected here. LOV will fetch the service names maintained in gwtm_operation_master.

11.1.2 Operation Id

This topic describes about the operation Id.

This is the key using which the Web service operation code would be derived. For example of Operation Id is **Product** Operation Code for **QUERY** would be **QueryProduct**. Note that this should be given in Sentence case and should be unique within the service. Ensure that correct operation id is given i.e. in case of LC Product Operation id can be **Product**. It need not be

LCProduct. In case of multiple products/contracts there under the same service, for example in Exchange traded derivatives module, Operation Id for Deal product can **DealProd** and for Margin product **MarginProd** etc.

11.1.3 Action Code

This topic describes about the action code.

Pre-defined actions will be available for the action code. These are the operations which are available in the FLEXCUBE.

For maintenance, type of function system enables the below action codes only:

- QUERY
- NEW
- MODIFY
- AUTHORIZE
- DELETE
- CLOSE
- REOPEN
- SUMMARYQUERY

For transaction Screens all the action would be enabled.

11.1.4 Operation Code

This topic describes about the operation code.

If the web service is selected, the operation code will be defaulted and operation code will be the combination of action code and Operation Id and same operation code will be used to perform operations for web service. If developer wants custom specific Operation Code names, he can provide so. For this double click on particular action code, operation code field for that action code will be enabled. Developer can modify the operation code now.

11.1.5 Action Stage Type

This topic describes about the action stage type.

For multistage actions, it should be checked. If any field has to be made amendable during the particular operation, action stage type has to be checked for the particular action.

Figure 11-1 Maintaining Web Services Information for a Function Id

The screenshot shows the 'Form Actions' configuration page in the Oracle Flexcube Development Workbench. The page is titled 'Form Actions' and contains several configuration fields and a table of actions.

Configuration Fields:

- Action Load:** Dropdown menu.
- Function Type:** Parent (dropdown).
- Function Category:** Transaction (dropdown).
- Header Template:** None (dropdown).
- Footer Template:** None (dropdown).
- Function Id:** UTDTXN01.
- Parent Function:** (empty).
- Parent Xml:** (empty).
- Save XML Path:** 201_RAD.xml.
- BROWSE:** Button.

Form Actions Table:

Web Service	Action Code	Operation Code	Action Stage Type	Rest Enabled	Amendables	Comment Coc
☒	QUERY	QueryIPoSubscription	☒	☒	Amendables	Comments
☒	NEW	CreateIPoSubscription	☒	☒	Amendables	Comments
☒	MODIFY	ModifyIPoSubscription	☒	☒	Amendables	Comments
☒	AUTHORIZE	AuthorizeIPoSubscription	☐	☒	Amendables	Comments
☒	DELETE	DeleteIPoSubscription	☐	☒	Amendables	Comments
☐	CLOSE		☐	☐	Amendables	Comments
☐	REOPEN		☐	☐	Amendables	Comments
☒	REVERSE	ReverseIPoSubscription	☐	☒	Amendables	Comments
☐	ROLLOVER		☐	☐	Amendables	Comments
☐	CONFIRM		☐	☐	Amendables	Comments
☐	LIQUIDATE		☐	☐	Amendables	Comments
☐	SUMMARYQUERY		☐	☐	Amendables	Comments

11.2 Amendable Field Information

This topic describes about the amendable field information.

Button amendable against each action would capture the amendable information for each action. It is mandatory to give amendable information for applicable actions for web services to function normally. Amendable information is not just for 'Modification' and for all the applicable actions. For example in a transaction screen, for QUERY action amendable information could be Oracle FLEXCUBE Reference number, User Reference Number, and External reference Number. It is not necessary to just have the Primary key in the XSD as external systems might query contracts based on any of these reference numbers. At a block-level user has to specify All Records, Delete allowed, New allowed, and Mandatory. This information is used by the Tool to generate scripts and code accordingly. Generated code also would perform validations based on the above preferences.

Generated code also would perform validations based on the above preferences.

Table 11-1 Amendable Field Information

Field	Description
All Records	If All records are checked, System expects the full data every time; i.e. in case of a multi-record block if there are 10 records and 1 record has to be modified, external systems still should send the remaining 9 records with the old data.
New Allowed	This indicates whether a new record can be added or not, in this block as part of this action.
Delete Allowed	This indicates whether a record can be deleted or not, in this block as part of this action.

Table 11-1 (Cont.) Amendable Field Information

Field	Description
Mandatory	This flag indicates whether the node is mandatory to be sent from external systems. This flag would be used to set the Min Occurs Flag in XSDs for that operation.

Figure 11-2 Maintaining Amendable Fields Information

The screenshot shows a window titled "Amendable Details --QUERY". It contains two main sections:

- Data Blocks:** A list of data blocks on the left, with "BLK_TRANSACTION_DETAILS" selected. The list includes:
 - BLK_TRANSACTION_DETAILS
 - BLK_INTERMEDIARY_DETAILS
 - BLK_LOAD_OVERRIDE_DETAILS
 - BLK_DERIVED_LOAD_DETAILS
 - BLK_KYC_DETAILS
 - BLK_DOCUMENT_DETAILS
 - BLK_ADDITIONAL_INFO
 - BLK_LIMIT_ORDER_DETAILS
 - BLK_SETTLEMENTDTLS
 - BLK_AMOUNTDTLS
 - BLK_VW_TXNSETTLEMENT
 - BLK_TXNRECEIPTS
 - BLK_TOTALUNITS
 - BLK_FEEPAYMENTDTLS
 - BLK_DELIVERYDTLS
 - BLK_INTCALCDTLS
 - BLK_CALCTYPE
 - BLK_AUTH
- DataBlock Fields:** A table on the right showing fields and their amendable status. Above the table are checkboxes for "New Allowed", "Delete Allowed", "All Records", and "Mandatory".

Field Name	Amendable
FUNDID	☒
UNITHOLDER_ID	☐
TRANSACTION_DATE	☐
TRANSACTIONNUMBER	☒
SUB_PAYMENTMODE	☐
STATUSFLAG	☐
MODULED_ID	☒
PAYMENT_MODE	☐
TRANSACTION_TYPE	☐
ALLOTTED_FLAG	☐
GROSSAMTIN_FBCCY	☐
NETAMTIN_FBCCY	☐
SETTLEMENTAMTIN_TXNCCY	☐
SETTLEMENTAMTIN_FBCCY	☐

At the bottom right of the window are "Ok" and "Cancel" buttons.

12

Summary

This topic describes the summary.

Summary screen can be designed using ODT if applicable.

Figure 12-1 Summary Screen Properties

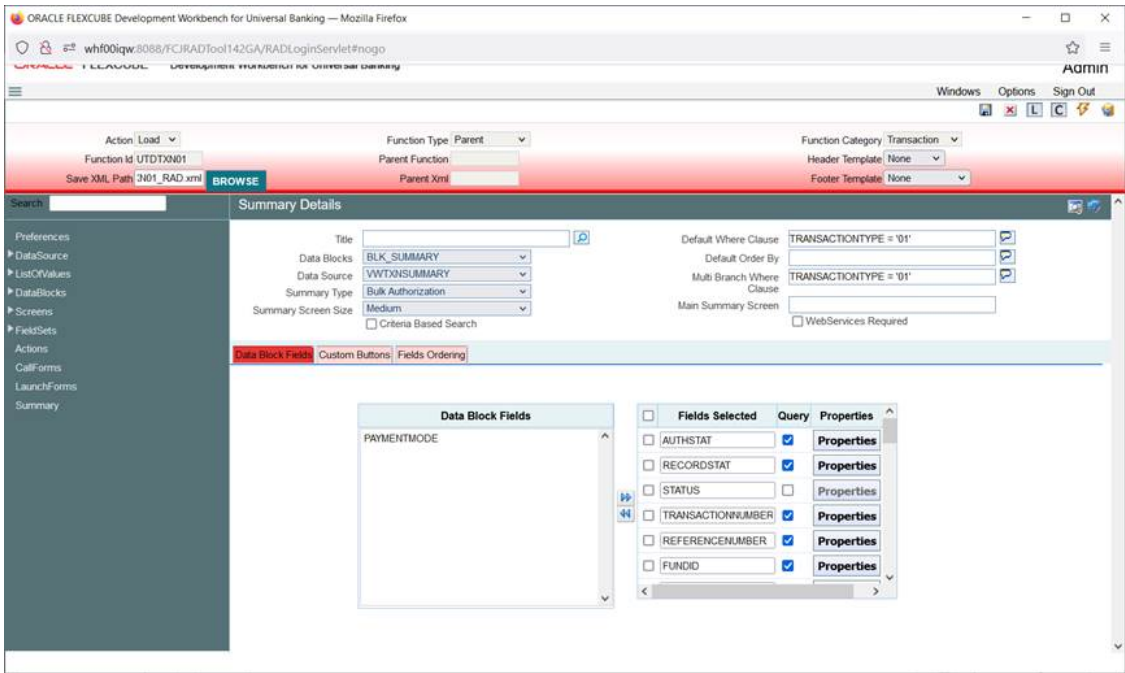


Table 12-1 Designing Summary Screen

Field Name	Description
Title	Summary screen title can be maintained here using a label code, and label code can be selected from the list of values attached to the field.
Data Block	A block has to be selected as Summary Block. This block can be either one of the Single record blocks of the function or a block of type Summary. In most cases Master Block itself can be used for Summary also and if the requirement is to show some other information a new summary type block can be created and can be used.
Data Source	Captures the data source name of the summary, on which query should happen for summary. This will also be the data source attached to the summary data block.

Table 12-1 (Cont.) Designing Summary Screen

Field Name	Description
Summary Type	Summary Type can be of: • Summary: This is the default option. For a normal summary screen to a function id, this option can be used. • Query: This is defunct. • Bulk Authorization: Checkbox option will be provided in the Summary screen. User will have the option to select multiple records in the summary screen at the same time and process it. Example: Bulk. • Upload
Summary Screen Size	Captures the size of the summary screen.
Default Where Clause	This field captures the default where clause for summary query.
Default Order By	This field captures the default order by clause for summary query.
Multi Branch Where Clause	This screen is applicable only if multi branch access is checked for the screen in Preferences node. This field captures the summary where clause for multi branch screens.
Main Summary Screen	Specifies the main form to be launched on clicking on a record from Summary Result. This is applicable only for Dashboard screens.
Summary Web Services Required	Specifies whether a web service for summary screen is required. SUMMARYQUERY action in Actions screen has to be selected as well for enabling web services for summary screen
Data Block Fields	All the block fields present in the summary data block will appear in the text area to the left. Developer can select the block fields required in the summary screen and move it to the right. • Field name: The required fields in the summary grid result can be moved to the right from data block fields. • Query Field: Check the 'Query' for fields that need to appear in Query portion of the Summary screen. Note that maximum number of Query fields for any screen is 12. • LOV Name: If the query option is checked, the properties button will be enabled, then on click of the button below screen will launch where LOV name and its corresponding return and bind variables can be defined, even min search char length details can also be mentioned here.
Fields Ordering	Order of the fields in the summary screen can be rearranged. Here all the query fields will be shown to the developer in one table while all the fields in result set will be shown in another table. Order of fields in both tables can be changed by the developer as per requirement.
Custom Buttons	Buttons can be added to summary screen using "Custom Buttons" Tab of the summary screen of Oracle FLEXCUBE Enterprise Limits and Collateral Management Development Workbench, same is shown below: • Number of Rows: Adding buttons to the summary screen can be of any number, and buttons can be arranged in more than one row. Max number of rows is 5. • Number of Buttons/Row: Number of Buttons per row can be maintained. • Field Name: This refers to the button name which is placed in the summary screen. • Label: Label Code for the button. • Function Name: JavaScript function which would be invoked on clicking the particular button is maintained here. Normally, this function would be written in the release specific JavaScript file.

Figure 12-2 LOV Name

Summary Details

Min Char Details

Min search char length

Lov Details

LOV Name

Return Fields **Bind Variables**

Return Fields Mapping Default From Lov Definition

☐	Query Column	Block Name	Return Field Name
☐	PARAMVALUE	BLK_SUMMARY	
☒	PARAMTEXT	BLK_SUMMARY	

Ok **Cancel**

Figure 12-3 Fields Ordering

Summary Details

Title

Data Blocks

Data Source

Summary Type

Summary Screen Size

☐ Criteria Based Search

Default Where Clause

Default Order By

Multi Branch Where Clause

Main Summary Screen

☐ WebServices Required

Data Block Fields **Custom Buttons** **Fields Ordering**

Query Fields	Order
AUTHSTAT	1
RECORDSTAT	2
TRANSACTIONNUMBER	3
REFERENCENUMBER	4
FUNDID	5
UNITHOLDERID	6
COEAPPLIED	7
TRANSACTIONTYPE	8
TRANSACTIONMODE	9

Resultset Fields	Order
AUTHSTAT	1
RECORDSTAT	2
STATUS	3
TRANSACTIONNUMBER	4
REFERENCENUMBER	5
FUNDID	6
UNITHOLDERID	7
COEAPPLIED	8
TRANSACTIONTYPE	9

Figure 12-4 Adding Custom buttons to a Screen

Summary Details

Title:

Data Blocks: **BLK_SUMMARY**

Data Source: **VWTXNSUMMARY**

Summary Type: **Bulk Authorization**

Summary Screen Size: **Medium**

☐ Criteria Based Search

Default Where Clause: **TRANSACTIONTYPE = '01'**

Default Order By:

Multi Branch Where Clause: **TRANSACTIONTYPE = '01'**

Main Summary Screen:

☐ WebServices Required

Data Block Fields | **Custom Buttons** | **Fields Ordering**

Number of Rows: Number of Buttons/Row:

☐	Field Name	Label	Function Name
☐	BTN_FIND_UH	LBI_GETUH	fn_summary_FindUH()
☐	BTN_BULK_AUTH	LBI_AUTH	fn_BulkAuthorize('BULKAUTH')
☐	BTN_BULK_DELETE	LBI_JOINTBL_DELETE	fn_BulkDelete()
☐	BTN_REVERSE	LBI_REVERSE	fn_BulkReverse()
☒	BTN_OVERRIDE	LBI_OVRD	fn_BulkOverride()

This topic has the following sub-topic:

- [Guidelines and Best Practices](#)
This topic describes about the guidelines and best practices.

12.1 Guidelines and Best Practices

This topic describes about the guidelines and best practices.

Note the following points while designing summary screen:

- Maximum number of Query Fields allowed for a summary screen is 12.
- For Maintenance screen, if summary data block and master data block are not the same, care should be taken so that name of the primary key fields of both the blocks should be the same.

13

Generation and Deployment of files

This topic provides an overview of the generation and deployment process of the files.

Once the screen development is over, files have to be generated. Use **Generate** icon to generate files. Once the files are generated, they have to be deployed in the FLEXCUBE environment for testing.

Refer *Development Workbench - Screen Development II* for the detailed explanation. After deployment of generated units, function id can be launched from the FLEXCUBE console. Unit testing of the function id can be carried out and any custom code can be added for additional functionality.

14

Appendix

This topic describes the appendix.

This topic consists of following sub-topics:

- [Screen Preview](#)
This topic describes about the screen preview.
- [Locate Field](#)
This topic describes about the locate field.
- [Label Code Maintenance](#)
This topic describes about the label code maintenance.

14.1 Screen Preview

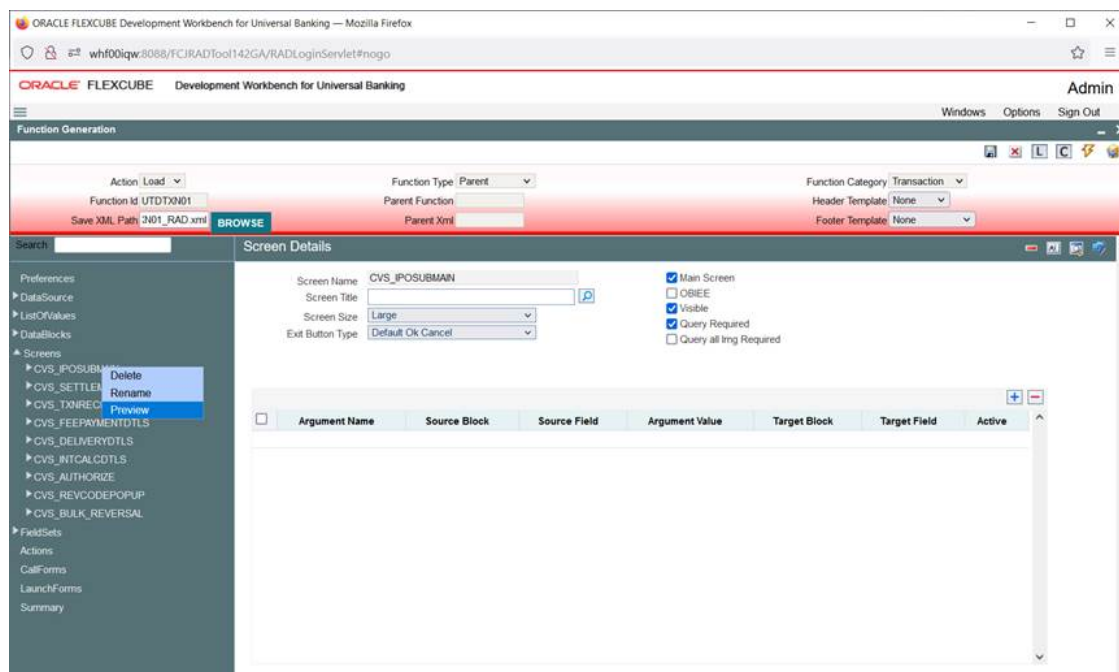
This topic describes about the screen preview.

Screen Preview gives the preview of the screen as it appears in the FLEXCUBE. It helps the developer to track the screen design changes much faster during development phase.

Preview of a screen can be viewed either by:

1. Clicking on the Preview icon present in the top right portion of the Screen
2. By selecting preview option from right click menu option of the particular screen.

Figure 14-1 Previewing a Screen



The preview of the screen as shown by the Tool is shown below:

Figure 14-2 Sample Preview of a Screen

The screenshot displays a software interface for a financial transaction. At the top, there are tabs for 'New' and 'Enter Query'. The main area is divided into several sections: 'Transaction Information' on the left, 'Transaction Value' on the right, and a central area with multiple input fields. The 'Transaction Information' section includes fields for Unit Holder ID (with a 'Find UH' button), Fund ID, Order Received Date, Order Received Time Zone, Transaction Date, Payment Mode, and Payment Mode Description. The 'Transaction Value' section includes Transaction Number, Transaction Currency, Reference Number, Order Received Time (HH24:MI), Transaction Type, Description, Transaction Category, and Description. The 'Transaction Value' section also has a 'Transaction Mode' dropdown set to 'Amount', and fields for Units Applied, Amount Applied, and Percent Applied. Below these are buttons for 'Enrich Transaction' and 'Reset Transaction'. A horizontal tab bar in the middle includes 'UH And Fund' (highlighted in red), 'Transaction', 'Other', 'Intermediary', 'Load Override', 'KYC And Document', 'Add Info', 'Fee Payment', 'Certificate', and 'Limit Order'. Below the tabs are fields for CIF Number, Unit Holder Name, ISIN No, Fund Name, Fund Base Currency, and Price Currency. At the bottom, there are tabs for 'Settlement Details', 'Receipt Details', 'Project Allocation Details', 'Allocation Details', and 'View Balance'. The bottom status bar includes fields for Input By, Authorized By, Date Time, Mod No, Authorization Status (set to 'Unauthorized'), and Record Status (set to 'Open'). There are 'Ok' and 'Exit' buttons on the right.

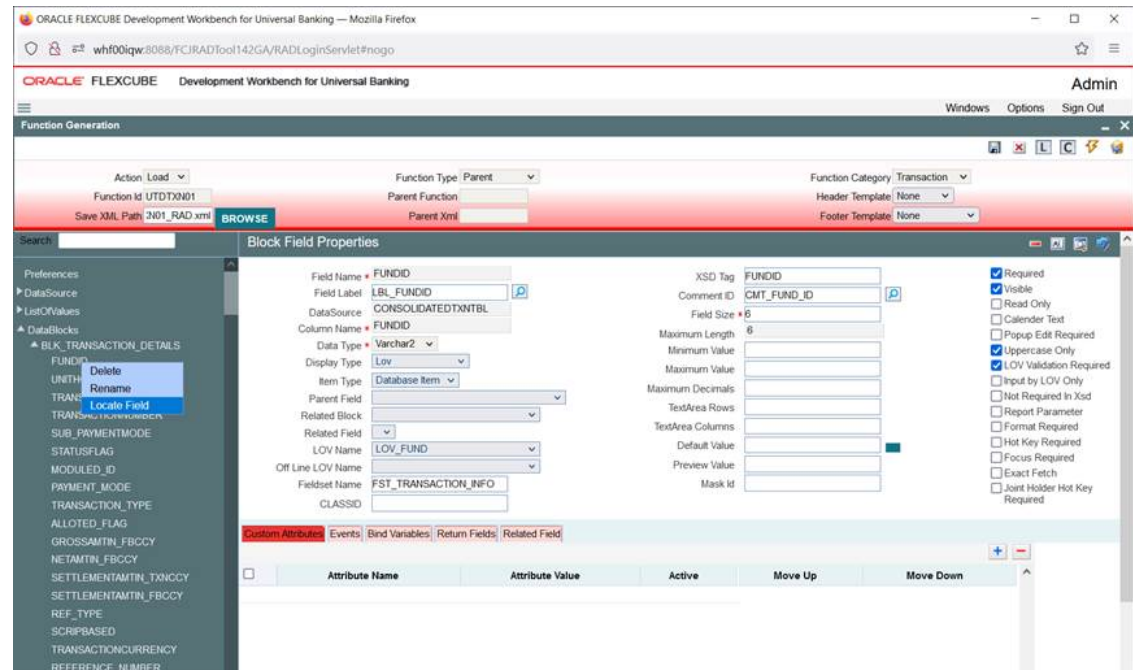
By double clicking on any field in the Preview, developer can navigate directly to the particular data block field.

14.2 Locate Field

This topic describes about the locate field.

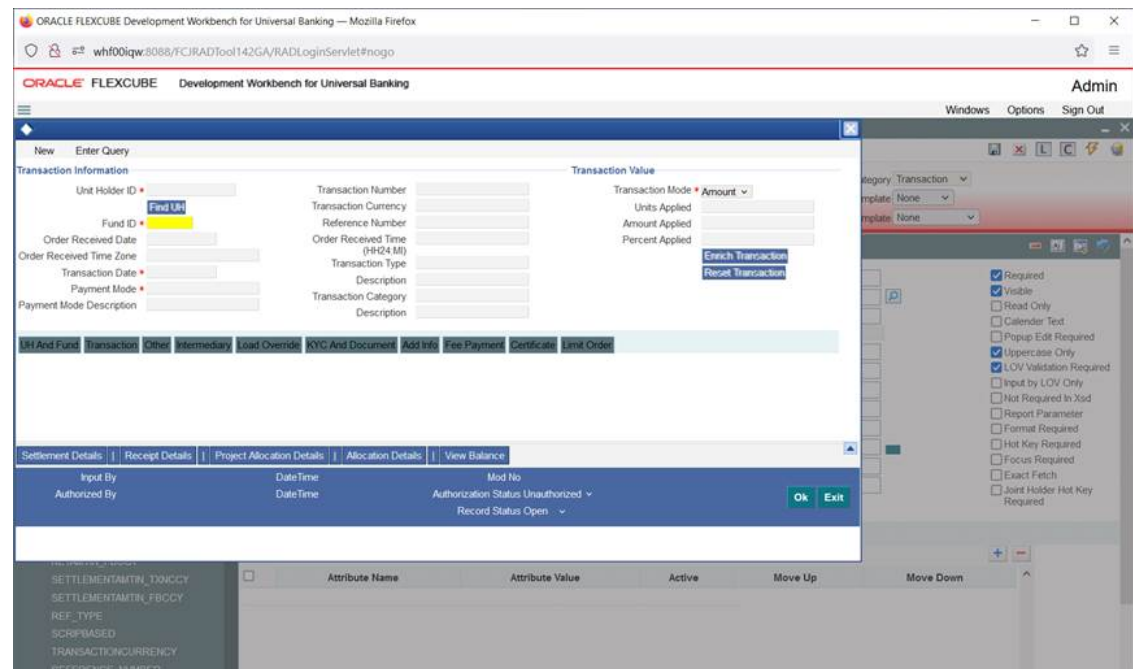
Locate Field Feature is helpful in determining the position of a field in a screen. For locating a block field in the screen, select locate field option from the right click menu of the data block field.

Figure 14-3 Locating a Field in Screen



Preview of the screen containing the field will be launched and the position of the particular field will be highlighted in green background colour.

Figure 14-4 Preview of the Screen with the field located



14.3 Label Code Maintenance

This topic describes about the label code maintenance.

Label Codes needs to be maintained in CSTB_LABELS (in the current environment language) for proper generation of files by ODT. Label Codes can be maintained in the FLEXCUBE through ODT itself. Click on Label code Icon found in the top right portion of the screen. Label Code maintenance screen will be launched.

Figure 14-5 Label Code Maintenance Screen

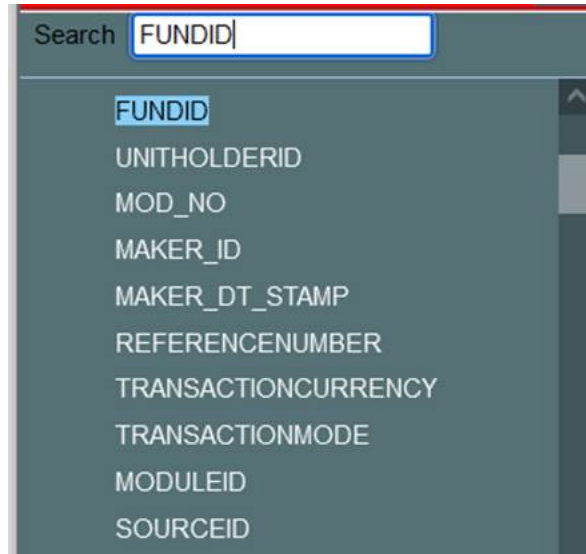
Label Code	Label Description	Label Type	Operation
LBL_REFNO	Reference Number	Field Label	Insert

Label Codes can be maintained through this screen. Screen provides option to deploy the label codes directly to FLEXCUBE schema.

Table 14-1 Label Code Maintenance

Field Name	Description
Maintaining a New Label Code	For maintaining a new label code, add a new label code as required in Label Code field. Label code should start with LBL_. Provide the description of the field in Label description field. Label Type can be selected based on the requirement. Select the Operation as Insert Click on Deploy button. ODT will insert the label code provided to CSTB_LABELS. Language code will be taken from the language code of the current environment code. More than one label code can be deployed at one time. Note the following while creating new label codes: 1. Label Code should start with LBL_ 2. Label Code should not contain any special characters except underscore(_)
Maintaining Missing labels	Developer can fetch the missing labels for the screen by clicking on Fetch Missing Labels button. All the label codes present in the function id which is not maintained in CSTB_LABELS will be fetched and displayed in the table. Developer can provide proper description and deploy the label codes.
Fetch All Label Codes for the Screen	On clicking Fetch All Labels button, all the label codes used in the function Id will be displayed in the table. Developer can update the label description of any field he wishes.
Updating an existing Label	Fetch all Labels used in the function Id. Change the Label Description of the label codes for which update has to be done. Change the Operation to Update. Check the checkbox and click on Deploy. The selected label codes will be updated.
Search Feature	Search Feature allows the developer to locate an element in tree easily. It is useful while browsing a function id with many nodes. Key In the string you want to find, ODT will search for the exact match of the string. If exact match is not found, then first n character search will be done. The first match will be highlighted in green and tree moves to the location. Next Occurrence of the same string can be found by pressing Enter or Down Arrow key. Figure shows an example for search feature:
Undo Feature	Undo feature allows the developer to undo all the changes done in a particular screen of ODT. Represents undo icon. On clicking of Undo icon the field values will be restored to the values before visiting the screen.

Figure 14-6 Illustration of Search Feature



Index