Oracle® Banking Treasury Management Development Workbench - Screen Development





Oracle Banking Treasury Management Development Workbench - Screen Development, Release 14.8.0.0.0

Copyright © 2020, 2025, Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle®, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface

| | Purp | ose | viii |
|---|-------------------|--|------|
| | Audie | ence | viii |
| | Docu | mentation Accessibility | viii |
| | Critic | al Patches | ix |
| | Diver | sity and Inclusion | ix |
| | Relat | red Resources | ix |
| | Conv | rentions | ix |
| | Scree | Screenshot Disclaimer Acronyms and Abbreviations Basic Actions | |
| | Acro | | |
| | Basic | | |
| | Symbols and Icons | | х |
| | Prere | equisite | xiv |
| | | | |
| L | Ove | erview 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 | Hea | 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

| Data So | ources | |
|----------|---------------------|------|
| 4.1 Crea | ate New Data Source | 4-1 |
| 4.2 Data | a Source Properties | 4-3 |
| 4.2.1 | Default Order By | 4-4 |
| 4.2.2 | Туре | 4-5 |
| 4.2.3 | Mandatory | 4-5 |
| 4.2.4 | Upload Table | 4-5 |
| 4.3 Data | a Source Columns | 4-6 |
| 4.4 Dele | ete Data Sources | 4-8 |
| Data Bl | ocks | |
| | ate Data block | 5-1 |
| | a 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 |
| | Туре | 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 | | 5-17 |
| 5.3.11 | | 5-17 |
| 5.3.12 | | 5-18 |
| 5.3.13 | | 5-18 |
| 5.3.14 | | 5-18 |
| 5.3.15 | · · | 5-18 |
| 5.3.16 | | 5-18 |
| 5.3.17 | | 5-18 |
| 5 3 18 | Preview Value | 5-18 |



| 5.3.19 Mask Id | | 5-19 |
|--|-----------------------|--|
| 5.3.20 Popup Edit Requ | uired | 5-19 |
| 5.3.21 Required | | 5-19 |
| 5.3.22 Visible | | 5-19 |
| 5.3.23 Input by LOV On | nly | 5-19 |
| 5.3.24 Calendar Text | | 5-19 |
| 5.3.25 Upper Case Only | у | 5-19 |
| 5.3.26 LOV Validation F | Required | 5-19 |
| 5.3.27 Not Required in 2 | XSD | 5-20 |
| 5.3.28 Read Only | | 5-20 |
| 5.3.29 Custom Attribute | 2 S | 5-20 |
| 5.3.30 Exact Fetch | | 5-21 |
| 5.3.31 Hot Key Require | :d | 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 a | and Best Practices | 5-23 |
| 5.5 Deletion of a Data Block | < | 5-24 |
| 5.5.1 Deletion of Block I | Field | 5-25 |
| 5.5.2 Rename Data Blo | ick | 5-26 |
| 5.5.3 Renaming of Data | a Block | 5-27 |
| 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 | | |
| | | |
| 6.1.10 Sections and Pa | rtitions | 6-7 |
| 6.1.11 Partition Details | | 6-7 6-8 |
| 6.1.11 Partition Details6.1.12 Multiple Screens | s in Same Function Id | 6-7 6-8 6-9 |
| 6.1.11 Partition Details 6.1.12 Multiple Screens 6.2 Guidelines and Best Pra | s in Same Function Id | 6-7 6-8 6-9 6-10 |
| 6.1.11 Partition Details6.1.12 Multiple Screens | s in Same Function Id | 6-5 6-7 6-8 6-9 6-10 6-10 |



6

| 6.4 Renaming of Screens | 6-12 |
|--|------|
| 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 |
| LOVs | |
| 8.1 Define LOVs | 8-1 |
| 8.2 LOVs- Guidelines and Best Practices | 8-7 |
| 8.3 Delete and Rename LOVs | 8-7 |
| Call Forms | |
| 9.1 Attach Call Forms | 9-1 |
| 9.2 Call Form- Guidelines and Best Practices | 9-5 |
| Launch Forms | |
| 10.1 Attach Launch Forms | 10-1 |
| 10.2 Launch Forms- Guidelines and Best Practices | 10-3 |
| 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 |
| Summary | |
| 12.1 Guidelines and Best Practices | 12-4 |



13 Generation and Deployment of files

14 Appendix

| 14-1 |
|------|
| 14-2 |
| 14-4 |
| |
| |
| |



Preface

This topic contains the following sub-topics:

- Purpose
- Audience
- Documentation Accessibility
- Critical Patches
- Diversity and Inclusion
- Related Resources
- Conventions
- Screenshot Disclaimer
- Acronyms and Abbreviations
- Basic Actions
- Symbols and Icons
- Prerequisite

Purpose

This document describes helps developer to familiarize with ORACLE FLEXCUBE Development Workbench for Universal Banking.

Audience

This guide is intended for the central administrator of the Bank who controls the system and application parameters and ensures smooth functionality and flexibility of the banking application.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at https://www.oracle.com/corporate/accessibility/.

Access to Oracle Support

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



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.

Related Resources

For more information on any related features, refer to the following documents

- Open Development Tool Installation
- Development Workbench Administration

Conventions

The following text conventions are used in this document:

Table 1 Conventions

| Convention | Meaning |
|------------|--|
| boldface | Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary. |
| italic | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values. |
| monospace | 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.

Acronyms and Abbreviations

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



Table 2 Acronyms and Abbreviations

| Abbreviation | Description |
|--------------|----------------------------|
| JRE | Java Runtime Environment |
| XML | Extensible Markup Language |

Basic Actions

Table 3 Basic Actions

| Action | Description |
|----------------------|--|
| Approve | Used to approve the initiated report. This button is displayed, once the user click Authorize . |
| Audit | Used to view the maker details, checker details, and report status. |
| Authorize | Used to authorize the report created. A maker of the screen is not allowed to authorize the report. Only a checker can authorize a report, created by a maker. |
| Close | Used to close a record. This action is available only when a record is created. |
| Confirm | Used to confirm the performed action. |
| Cancel | Used to cancel the performed action. |
| Compare | Used to view the comparison through the field values of old record and the current record. This button is displayed in the widget, once the user click Authorize . |
| Collapse All | Used to hide the details in the sections. This button is displayed, once the user click Compare . |
| Expand All | Used to expand and view all the details in the sections. This button is displayed, once the user click Compare . |
| New | Used to add a new record. When the user click New , the system displays a new record enabling to specify the required data. |
| ок | Used to confirm the details in the screen. |
| Save | Used to save the details entered or selected in the screen. |
| View | Used to view the report details in a particular modification stage. This button is displayed in the widget, once the user click Authorize . |
| View Difference only | Used to view a comparison through the field element values of old record and the current record, which has undergone changes. This button is displayed, once the user click Compare . |
| Unlock | Used to update the details of an existing record. System displays an existing record in editable mode. |

Symbols and Icons

The following symbols and icons are used in the screens.



Table 4 Symbols and Icons - Common

| Symbol/Icon | Function |
|-------------|---------------------------------|
| | Minimize |
| | |
| 7 6 | |
| | Maximize |
| L J | |
| LJ | |
| | Close |
| X | |
| | |
| | Perform Search |
| \circ | |
| \sim | |
| | Open a list |
| _ | |
| • | |
| | Add a new record |
| | |
| | |
| | Navigate to the first record |
| 1.4 | ivavigate to the hist record |
| 1 | |
| | No. doubte to the last as and |
| | Navigate to the last record |
| > | |
| | |
| | Navigate to the previous record |
| 4 | |
| | |
| L | 1 |

Table 4 (Cont.) Symbols and Icons - Common

| Symbol/Icon | Function |
|----------------|--|
| | Navigate to the next record |
| • | |
| 333WI | Grid view |
| and the second | |
| 22771 | List view |
| 〓 | |
| | Refresh |
| G | |
| | Click this icon to add a new row. |
| 4 | |
| | Click this icon to delete an existing row. |
| | |
| _ | Click to view the created record. |
| 自 | |
| | Click to modify the fields. |
| 6 | |
| _ | Click to unlock, delete, authorize or view the created record. |
| • | |
| | |



Table 5 Symbols and Icons - Audit Details

| Symbol/Icon | Function |
|-------------|-------------------------------|
| 0 | A user |
| | Date and time |
| A | Unauthorized or Closed status |
| \otimes | Authorized or Open status |

Table 6 Symbols and Icons - Widget

| Symbol/Icon | Function |
|-------------|---------------------|
| 6 | Open status |
| | Unauthorized status |
| Ð | Closed status |
| | Authorized status |

Prerequisite

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



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
- Attaching Call forms and launch forms if any
- 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.



Header Information

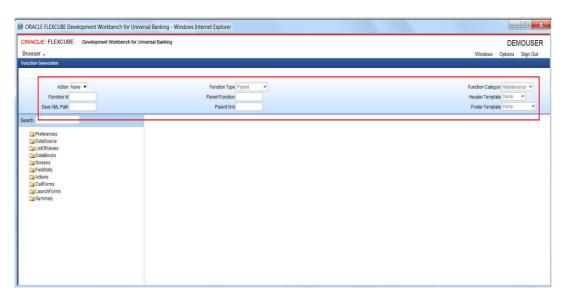
This topic provides the systematic instructions to update header information.

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

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

- Map the session to the release and environment as required.
 Refer Development Workbench Getting Started for detailed explanation.
- 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 XmI | 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 filed 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</i> corresponding <i>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.



○ 🗞 😅 whf00iqw:8088/FCJRADTool142GA/RADLoginServlet#nogo ☆ ≡ ORACLE: FLEXCUBE Development Workbench for Universal Banking E . O DESTTEMPDIR CSCDOCUL RAD.xm 11/16/2022 5:34 PM FCIS CSCDOCUP_RAD.xml 3 14.5_to_146_Upgrade 11/16/2022 5:33 PM 11/16/2022 5:33 PM CSCUPDOC_RAD.xml 11/16/2022 5:33 PM File name:

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 filed names and hence cannot be used as the name of any other block field.



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 transact ion screens. As part of process template; previous remarks, remarks, outcome and audit block will be created in the footer.



Preferences

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

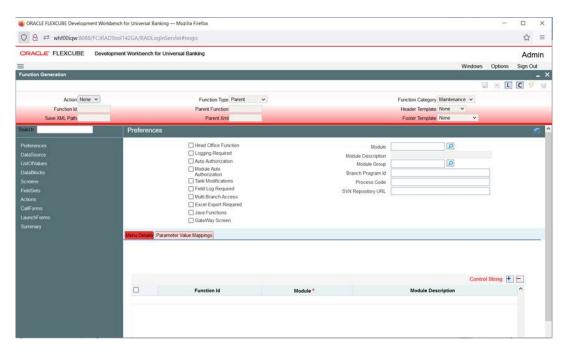
Function id level preferences like module, logging required, tanking modification Main menu, Sub-Menu1, Sub-Menu2 is maintained through Preferences screen in ODT.

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



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 |
|-----------------------|--|
| 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.

Thye 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.

- On the Function Generation screen, right-click on the DataSource node and select the Add option to create a new DataSource.
- 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.
- 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 file 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 . |
| Туре | 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 filed 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.

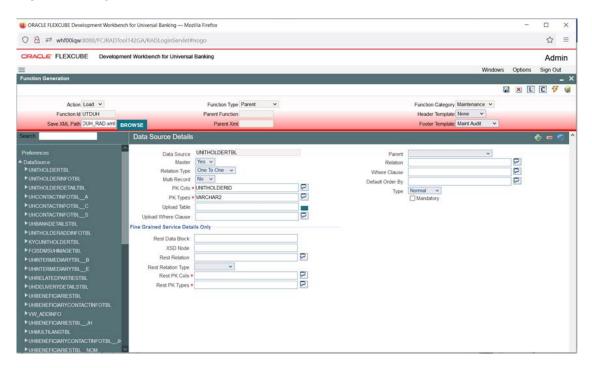
4.2.4 Upload Table

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



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

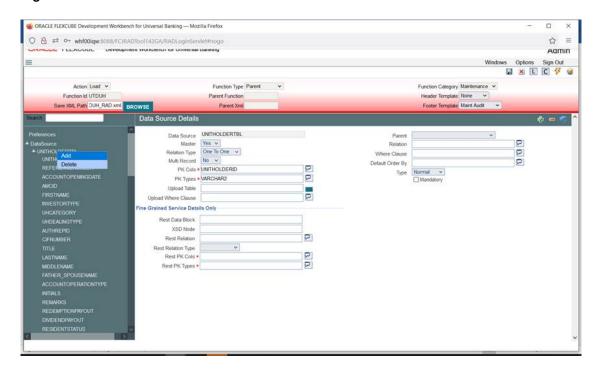




Table 4-3 AddTable - Field Description

| 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.
- 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_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.

source column and all the references to those data block fields.

- 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

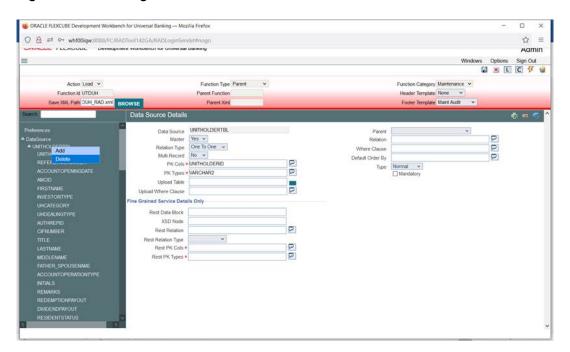


Figure 4-6 Deleting a Data Source

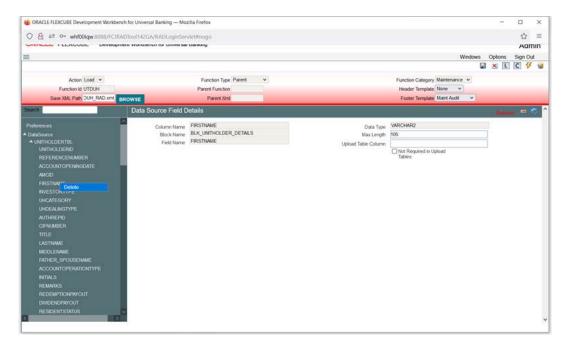


Note:

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.

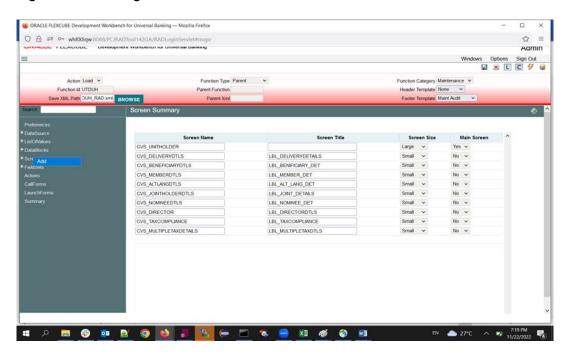
5.1 Create Data block

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.

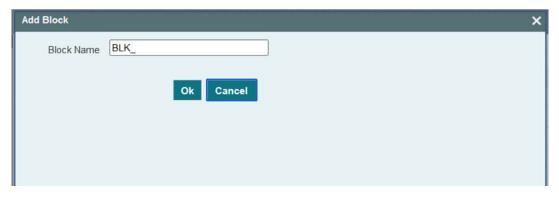
- 1. Right-click on the **Data Block** and select **Add** option to create the data block.
- 2. Or click the Add (+) icon in the top left of the data block screen to create new data block.

Figure 5-1 Adding a New Data Block



Add Block window displays.

Figure 5-2 Add Block Screen



3. 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 | Desription |
|-----------------|---|
| 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 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 | Desription |
|------------------------|--|
| 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

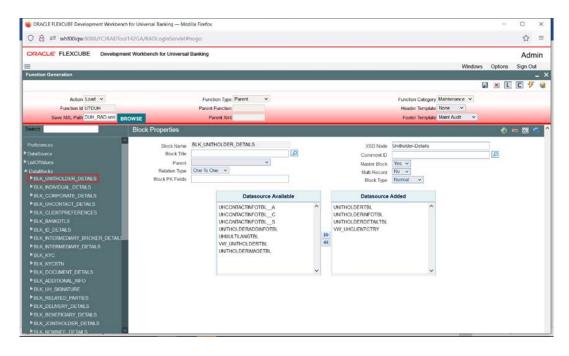
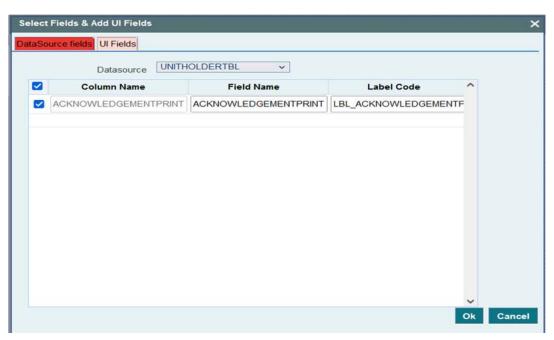




Figure 5-5 Attaching Data Source to a Data Block

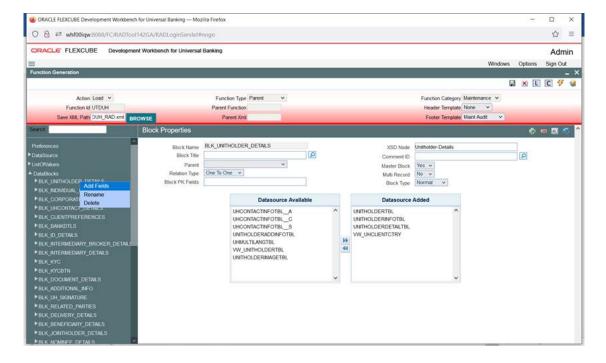


5.2 Data Block Fields

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

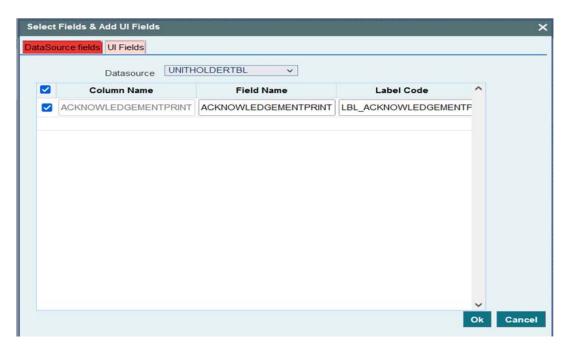




The screen as shown below is launched. ODT provides option to add two kinds of fields.

• 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

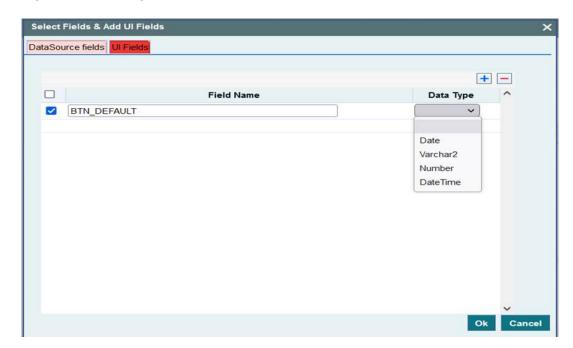


Field Names and Label codes if maintained in CSTB_DATA_DICTIONARY will be defaulted. Otherwise, developer has to provide the field name as desired. Label codes will be defaulted based on the field name provided. Select all the fields which have to be included in the data block and click Ok.

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.

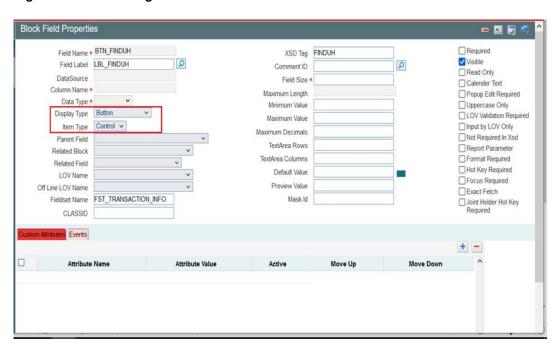


Block Field Properties Field Name . TRANSACTIONCURRENCYAL Required XSD Tag TRANSACTIONCURRENCYAL Field Label LBL_TRANSACTIONCURREN [A ✓ Visible Comment ID CMT_TRANSACTIONCURREN [2] Read Only DataSource CONSOLIDATEDTXNTBL Field Size Calender Text Column Name . TRANSACTIONCURRENCYAL Maximum Length Popup Edit Required Data Type * Number v Minimum Value Uppercase Only Display Type Amount LOV Validation Required Maximum Value Item Type Database Item v ☐ Input by LOV Only Maximum Decimals Not Required In Xsd Parent Field TextArea Rows Related Block BLK_TRANSACTION_DETAILS Report Parameter Related Field TRANSACTIONCURRENCY ~ TextArea Columns Format Required ☐ Hot Key Required Default Value LOV Name Focus Required Preview Value Off Line LOV Name ☐ Exact Fetch Fieldset Name FST_TRANSACTION_VALUE Mask Id Joint Holder Hot Key Required CLASSID utes Events Related Field + -Attribute Name Attribute Value Active Move Down

Figure 5-9 Defining an Amount Data Block Field

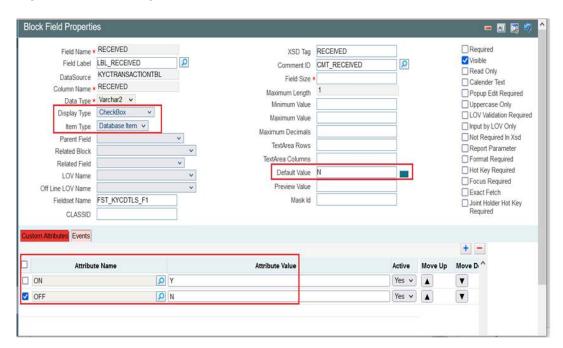
 Button: If the display type for the field is a button, display type has to be selected as button. Action to be performed on clicking the button should be provided in the events tab Button can launch a sub screen, launch form, call form or invoke a user defined JavaScript function.

Figure 5-10 Defining Field as button



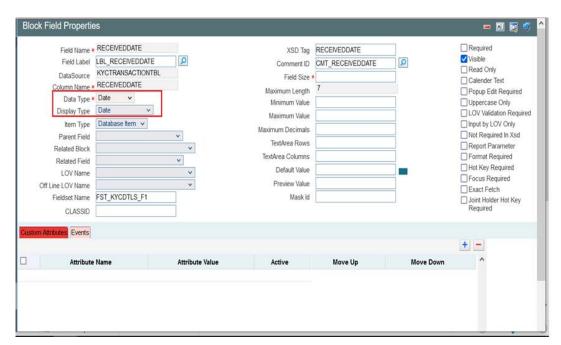
 Checkbox: Checkbox is used for displaying checkboxes. Attribute Name will be ON and OFF. Attribute values can be provided as per design In the figure shown below: ON (checked) corresponds to Y in table and OFF to N Default value is selected as N.

Figure 5-11 Defining Field as Checkbox



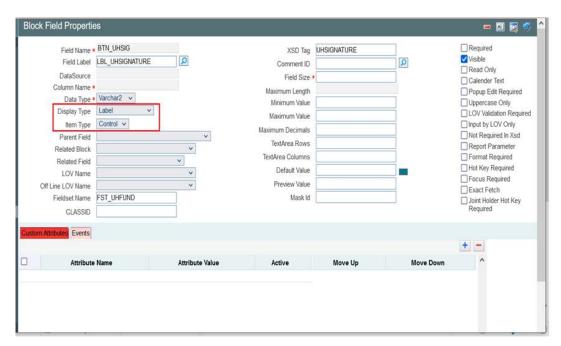
Date: If the field is of date type display type can be selected as Date.

Figure 5-12 Defining Field as Date



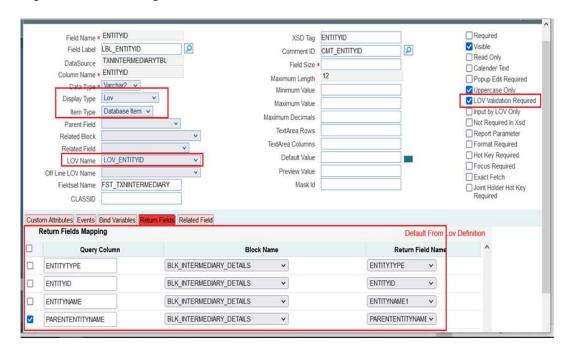
- Date Time: If the field displays both date and time, it can be selected as Date Time.
- **File**: If browser option is required for the field, then field has to be selected as file type. Example: If an excel sheet from the local machine needs to be selected, browser button has to be provided, so that 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



• 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 Reqd can be checked. For branch screens, Offline LOV Name can also be attached.

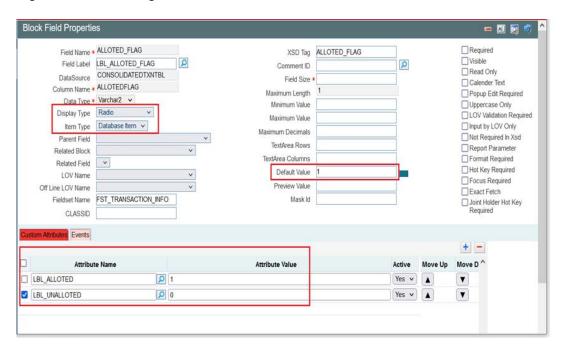
Figure 5-14 Defining Field as LOV





- 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.

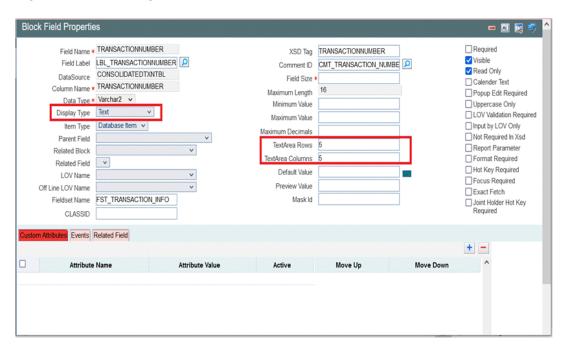
Figure 5-15 Defining Field as Radio button



- **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.

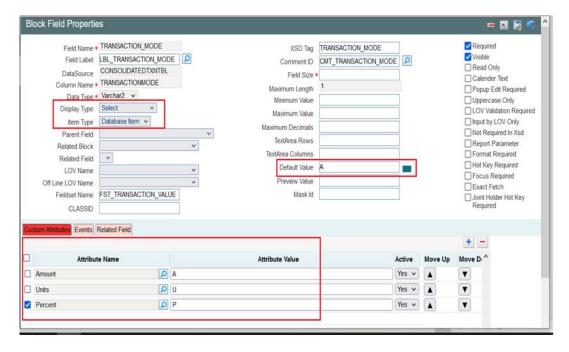


Figure 5-16 Defining Field as Text Area



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



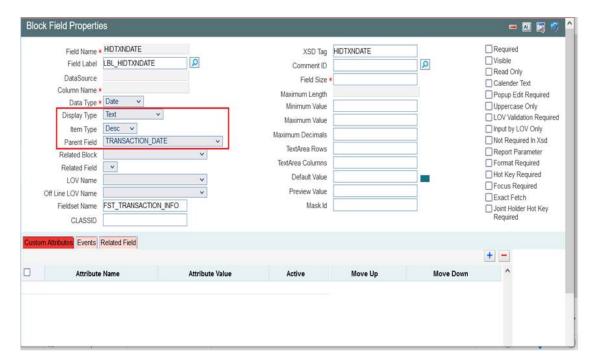
5.3 Item Type

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 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. Filed can be made non editable by checking this option.

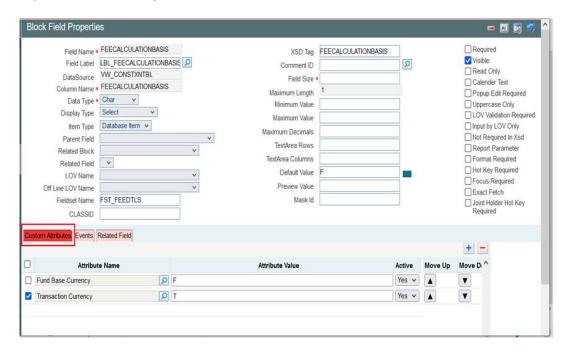
5.3.29 Custom Attributes

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





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.

Block Field Properties Field Name * FEECALCULATIONBASIS XSD Tag FEECALCULATIONBASIS Required Field Label LBL_FEECALCULATIONBASIS | ✓ Visible Comment ID Read Only DataSource VW_CONSTXNTBL Field Size Calender Text Column Name FEECALCULATIONBASIS Maximum Length Popup Edit Required Data Type * Char Minimum Value Uppercase Only Display Type Select LOV Validation Required Maximum Value Item Type Database Item v ☐ Input by LOV Only Maximum Decimals Parent Field Not Required In Xsd TextArea Rows Report Parameter Related Block Format Required TextArea Columns Related Field ✓ Hot Key Required Default Value LOV Name Focus Required Preview Value Off Line LOV Name Exact Fetch Fieldset Name FST_FEEDTLS ☐ Joint Holder Hot Key Required CLASSID utes Events Related Field + -Attribute Value Move D Attribute Name Active Move Up Fund Base Currency P • DT • Transaction Currency Yes v

Figure 5-20 Focus Required

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



5.3.34 Bind Variables

This topic describes about the bind variables.

Figure 5-22 Bind Variables

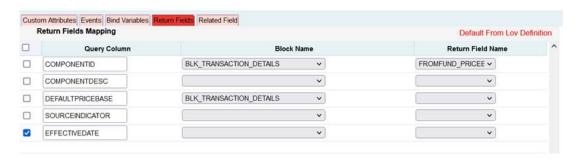


5.3.35 Return Fields

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



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:

- 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**.
- 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.
- 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:

- 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.
- 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).



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.
- 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

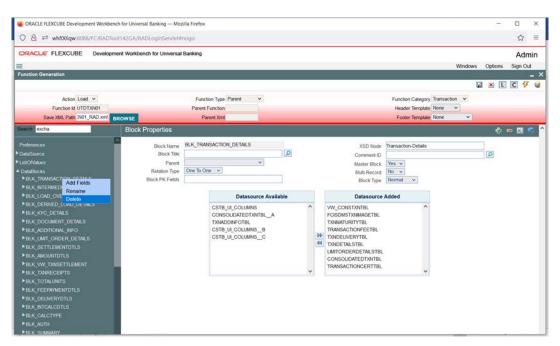
This topic describes about the deletion of a data block.

Data Block can be deleted either by:

- 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.

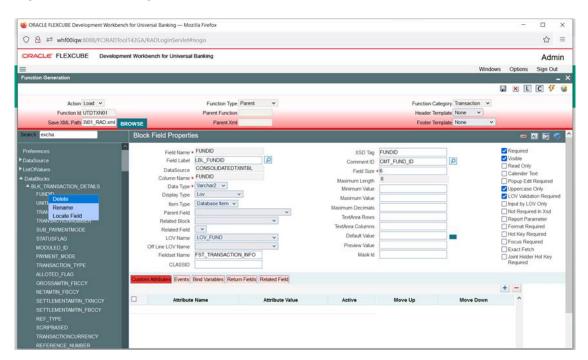
- Deletion of Block Field
 - This topic describes about the deletion of a data block.
- Rename Data Block
 This topic provides systematic instructions to rename the Data Block and Block field.
- Renaming of Data Block
 This topic describes about the renaming of data block.

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 needs 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.

- Right-click on the data block to be renamed and select the Rename option from the rightclick menu.
- 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



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



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

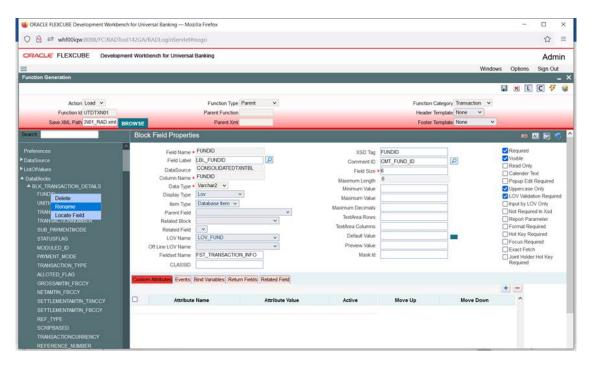
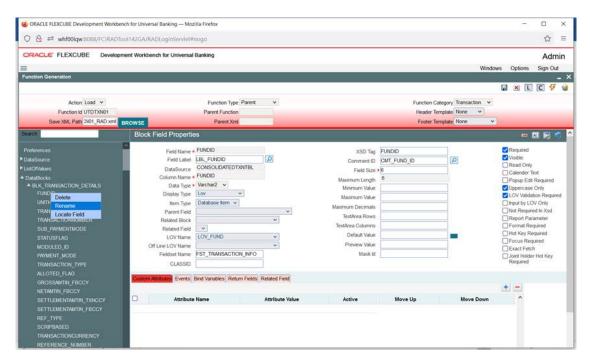




Figure 5-29 Renaming of Block Field



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

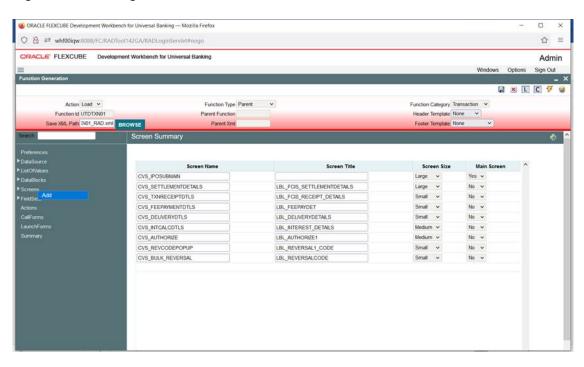
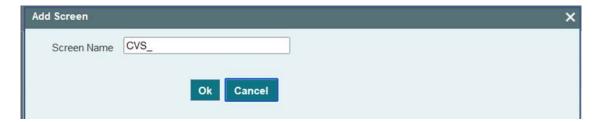


Figure 6-2 Add Screen window



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

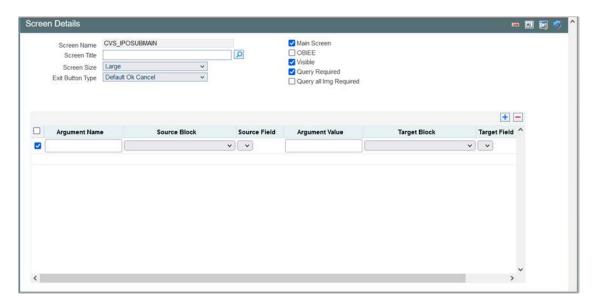


Table 6-1 Screen Properties

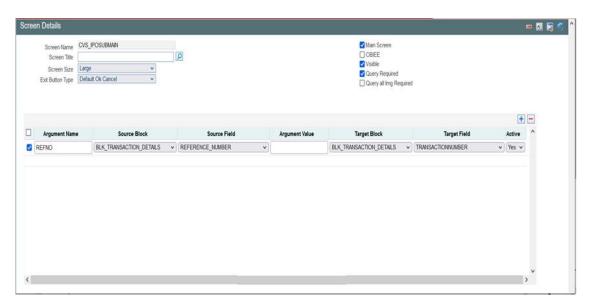
| Field Name | Description |
|------------------|--|
| Screen Arguments | Screen Arguments are parameters that can be passed to the screen on launching the screen. If on launch of the screen, some of the fields needs to be populated based on the screen from which it is launched, screen arguments can 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



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

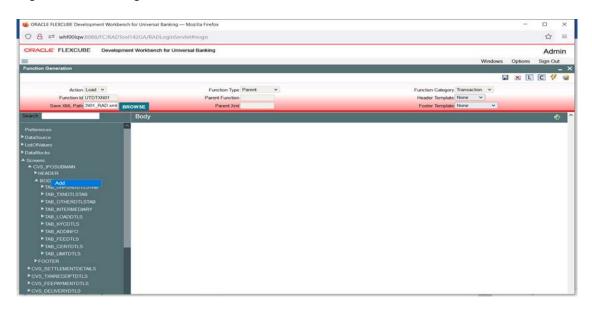
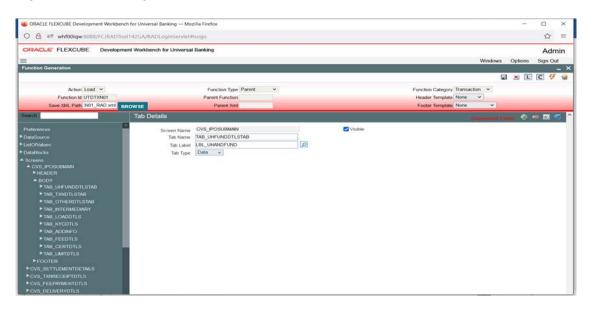


Table 6-2 Adding Tabs to a Screen

| 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

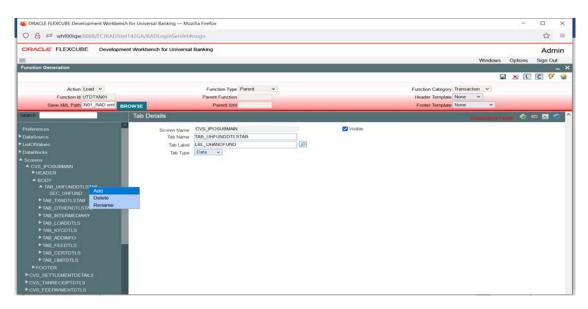
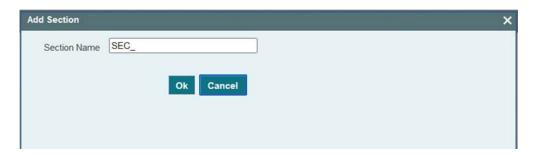




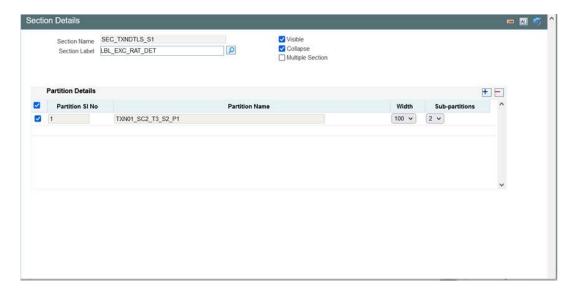
Figure 6-9 Adding Section window



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 Properties



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.

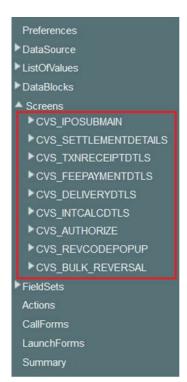
- **Partition SI No**: This will used to identify the partition by the system. It will be defaulted by the tool. Numerical value which increments by one.
- Partition Name: This can be provided by the developer.
- **Width**: Width of the partition will be defaulted by the Tool depending on the number 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 wil

Block Field Properties Field Name * BTN_FINDUH Required XSD Tag ✓ Visible Q Field Label LBL_FINDUH Comment ID Read Only DataSource Field Size Calender Text Column Name * Maximum Length Popup Edit Required Data Type * Minimum Value Uppercase Only Display Type LOV Validation Required Maximum Value Item Type Control V Input by LOV Only Maximum Decimals Not Required In Xsd TextArea Rows Report Parameter Related Block TextArea Columns Format Required Related Field ☐ Hot Key Required Default Value LOV Name Focus Required Off Line LOV Name Preview Value Exact Fetch Mask ld FST_TRANSACTION_INFO Fieldset Name Joint Holder Hot Key Required CLASSID Custom Attributes + -Event Type onclick

Figure 6-12 Button Events for Launching Sub Screen

I 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

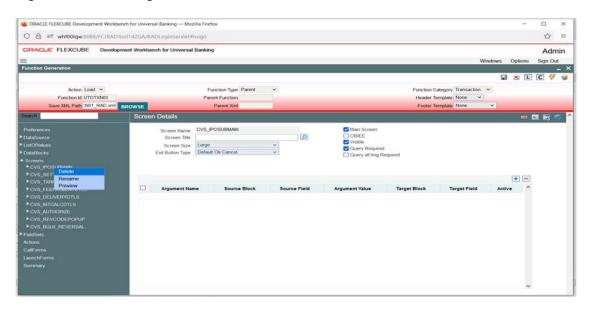
6.3 Deletion of Screens

This topic describes the deletion of screens.

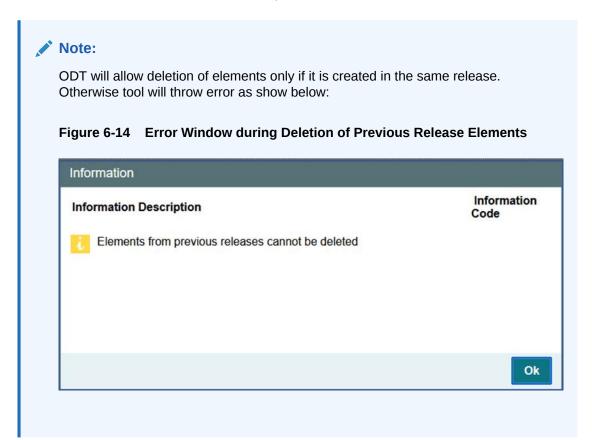
Screens can be deleted either by:

- 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.



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

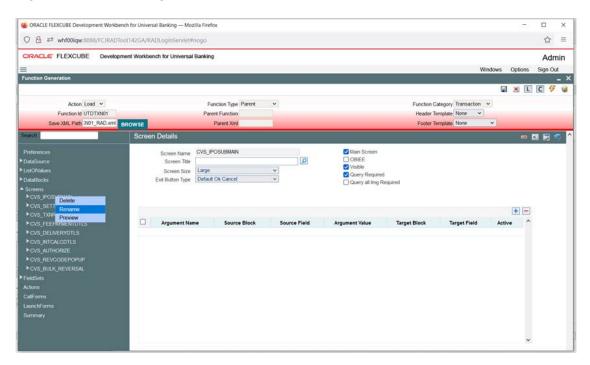
This topic describes about the renaming of screens.

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.



7

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

Figure 7-1 Adding a New Field Set

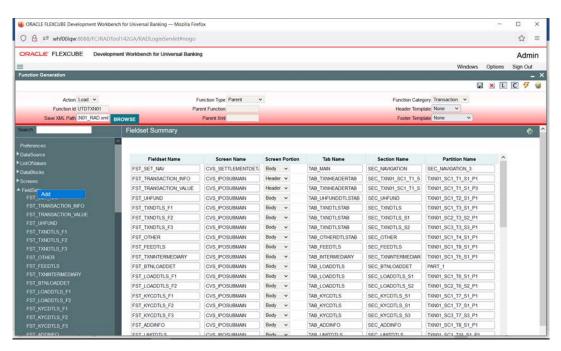


Figure 7-2 New Field Set window



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. VERNO | |
| | 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

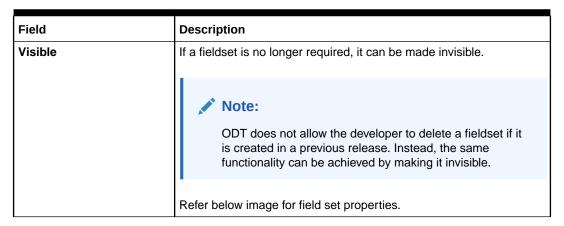
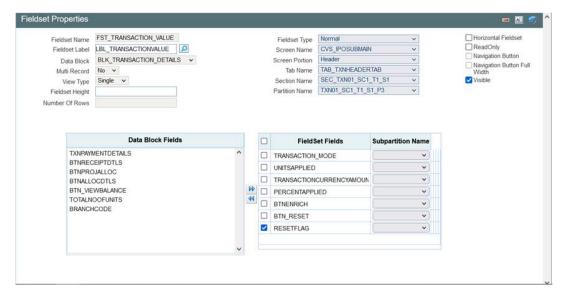


Figure 7-4 Field Set Properties



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 subpartitions, 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 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
- Delete Field Set
 This topic provides systematic instructions to delete the Field Set.
- Visible Flag
 This topic provides an overview of 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.
- Or click on the Delete FieldSet (-) icon in the top right corner of the fieldset screen.

Figure 7-5 FieldSet Properties



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 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.

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

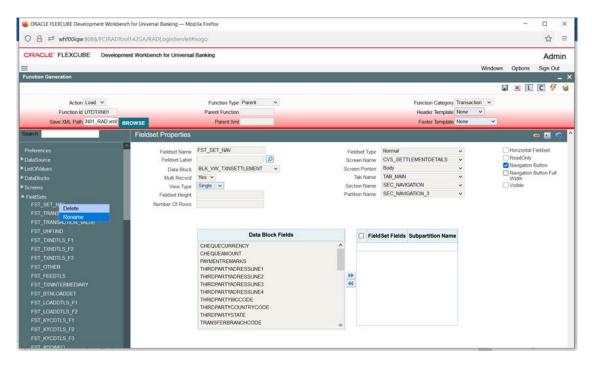
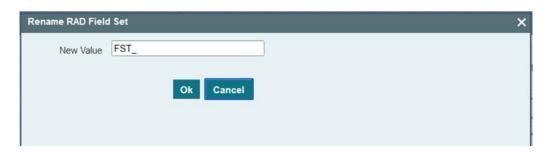


Figure 7-7 Renaming of Field Set



Note:

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



LOVs

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

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

- 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:

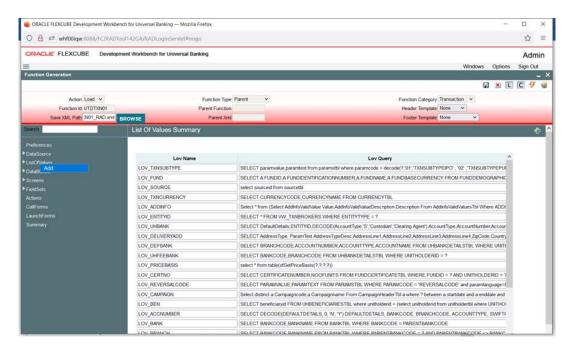
- Define LOVs
 This topic provides systematic instructions to define LOVs.
- LOVs- Guidelines and Best Practices
 This topic provides a list of guidelines for defining LOVs.
- Delete and Rename LOVs
 This topic describes the process of deletion and renaming LOVs.

8.1 Define LOVs

This topic provides systematic instructions to define LOVs.

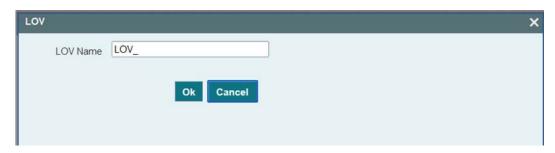
- 1. Right-click on the **ListOfValues** node and select **Add** option from the right-click menu.
- 2. Or click on the Add (+) icon in the top right portion of the LOV grid screen.

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

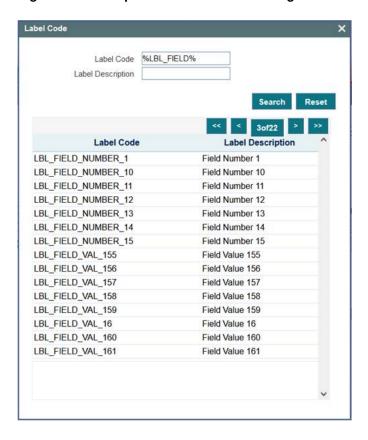
| LOV Column Details | Description |
|---------------------------------|--|
| Data Type | This row will also be defaulted based on the LOV query. The data type of the query cols has to be provided here. |
| Visible | The Result Column of the LOV can be made invisible by specifying in this column. |
| 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. |



ORACLE FLEXCUBE Development Workbench for Universal Banking — Mozilla Firefox ○ 🗟 🕬 whf00iqw:8088/FCJRADTool142GA/RADLoginServlet#nogo \$ ORACLE FLEXCUBE Development Workbench for Universal Banking Admin Sign Out ZX LC 7 Function Type Parent v Header Template None Footer Template None Function Id UTDTXN01 Parent Functio Save XML Path 3N01_RAD.xml List Of Values Details LOV Name . LOV_TXNSUBTYPE LOV Query SELECT paramvalue pa ☐ Query Columns Data Type Visible Reduction Field Reduction Field Type Reduction/Column Label VARCHAR2 V Yes V Yes V TEXT PARAMVALUE LBL_TRANSACTIONTYPE PARAMTEXT VARCHAR2 V Yes V Yes V TEXT LBL_TRANSACTIONTYPEDESC | No v

Figure 8-4 Sample LOV Screen illustrating Reduction Fields

Figure 8-5 Sample LOV Screen illustrating Reduction Fields



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

5. 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

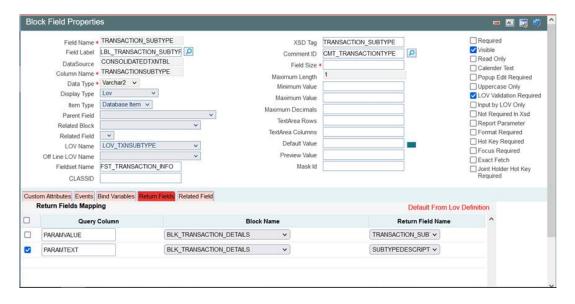
| Field | Description |
|---------------------|--|
| LOV name | Select List will contain both Local LOVs and Global LOVs . The developer has to select the LOV as required for the field. |
| Input By LOV Only | This field has to be checked if the field has to be input through LOV only. |
| LOV Validation 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 coulmn 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: |



Block Field Properties Field Name * TRANSACTION_SUBTYPE Required TRANSACTION_SUBTYPE Visible Field Label LBL_TRANSACTION_SUBTYF [2] Comment ID CMT_TRANSACTIONTYPE DataSource CONSOLIDATEDTXNTBL Read Only Field Size Calender Text Column Name * TRANSACTIONSUBTYPE Maximum Length Popup Edit Required Data Type * Varchar2 v Minimum Value Uppercase Only Display Type Lov v ✓ LOV Validation Required Maximum Value Item Type Database Item V ☐ Input by LOV Only Maximum Decimals Not Required In Xsd Parent Field TextArea Rows Related Block Report Parameter TextArea Columns Format Required Related Field Hot Key Required Default Value LOV Name LOV_TXNSUBTYPE Focus Required Preview Value Off Line LOV Name Exact Fetch Fieldset Name FST_TRANSACTION_INFO Mask Id ☐ Joint Holder Hot Key Required CLASSID Custom Attributes Events Bind Variables Return Fields Related Field **Bind Variables Mapping Default From Lov Definition** Bind Variable Data Type BLK_TRANSACTION_DETAILS TRANSACTION_TYPE > STRING

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

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



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:

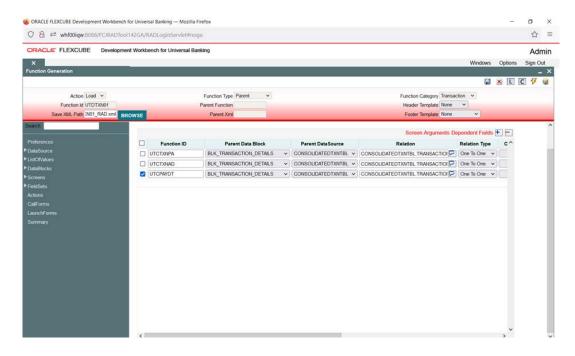
- Attach Call Forms
 This topic provides systematic instructions to attach Call Forms.
- Call Form- Guidelines and Best Practices
 This topic provides a list of guidelines and best practices for attaching the Call Form to the Screen.

9.1 Attach Call Forms

This topic provides systematic instructions to attach Call Forms.

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



🍪 ORACLE FLEXCUBE Development Workbench for Universal Banking — Mozilla Firefox ○ 🕹 🖘 whf00iqw.8088/FCJRADTool142GA/RADLoginServlet#nogo ☆ = ORACLE: FLEXCUBE Development Workbench for Universal Banking Admin Function Category Transaction
Header Template None Function Type Parent v Function ld UTDTXN01

Save XML Path 3\01_RAD.xml BROWSE Parent Function
Parent Xml Footer Template None Screen Arguments Dependent Fields
 Relation
 Relation Type
 Caliform Screen
 Display Type

 DLDATEDTXNTBL TRANSACTION □
 One To One
 ✓
 ✓
 ✓
 Button
 Rest Relation With Parent ✓ Yes ✓ P 0 0 DUDATEDTXNTBL TRANSACTION One To One 🕶 ∨ Button DUDATEDTXNTBL TRANSACTION One To One V v Yes v

Figure 9-2 Attaching Call Forms to the Function Id

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

Table 9-1 Call Form Details

| E1.1.1 | Burning and the second of the |
|-------------------|---|
| 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

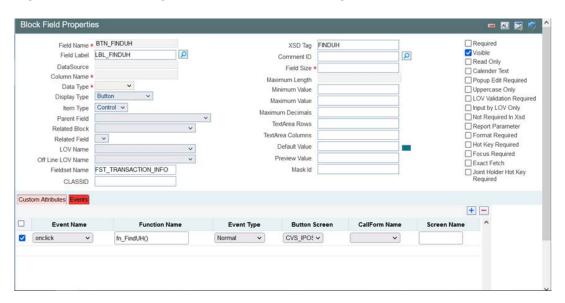
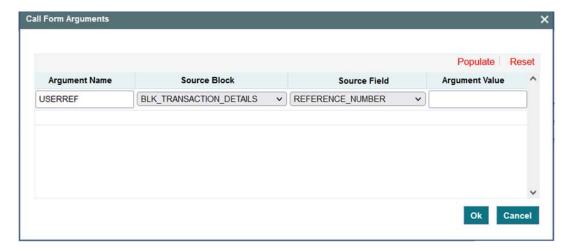


Figure 9-4 Passing Screen Arguments to Call Form Screen





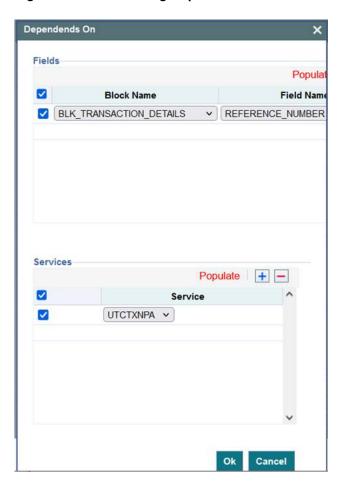


Figure 9-5 Maintaining Dependent Fields Information for a Call Form

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.

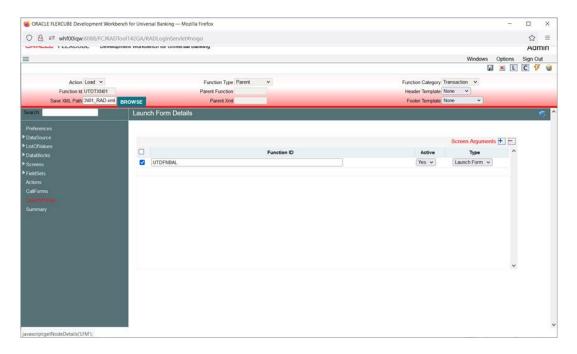
10.1 Attach Launch Forms

This topic provides systematic instructions to attach launch forms.

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

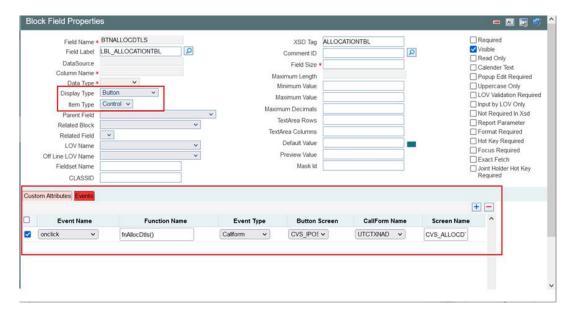
| Field | Description |
|---|---|
| Function ID | The name of the Launch Form function id to be attached has to be specified here. |
| Active | Launch Forms attached in one release cannot be removed in a future release. Instead, the active flag can be set as NO to achieve the same. |
| Screen Arguments | 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. |



Call Form Arguments Populate Reset **Argument Name** Source Block Source Field Argument Va ^ UHID BLK TRANSACTION DETAILS ~ UNITHOLDER ID V ACTION_CODE ~ ~ **EXECUTEQUEF** Ok Cancel

Figure 10-2 Passing Screen Arguments to Launch Form

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



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 derivates 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 made amendable during the particular operation, action stage type has to be checked for the particular action.



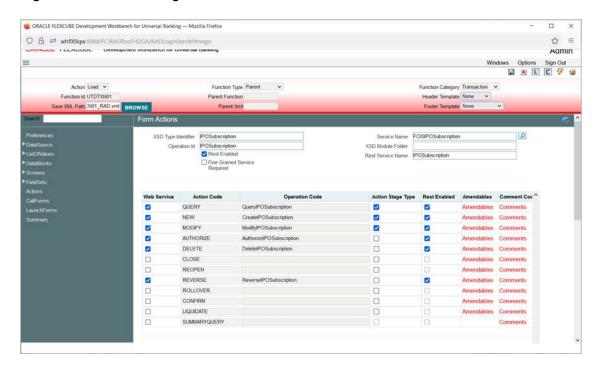


Figure 11-1 Maintaining Web Services Information for a Function Id

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.

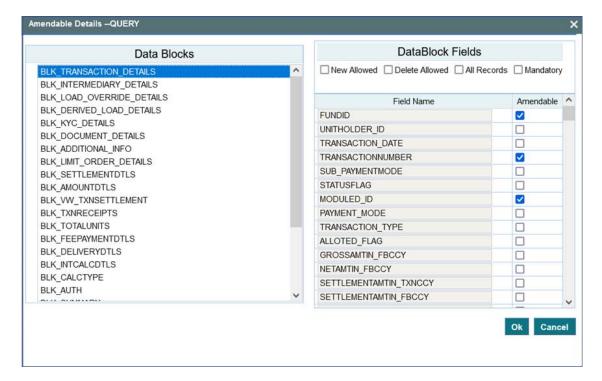
Table 11-1 Amendable Field Information

| 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



Summary

This topic describes the summary.

Summary screen can be designed using ODT if applicable.

Figure 12-1 Summary Screen Properties

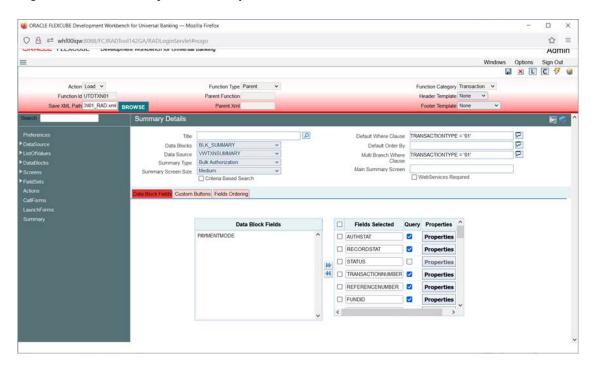


Table 12-1 Designing Summary Screen

| 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

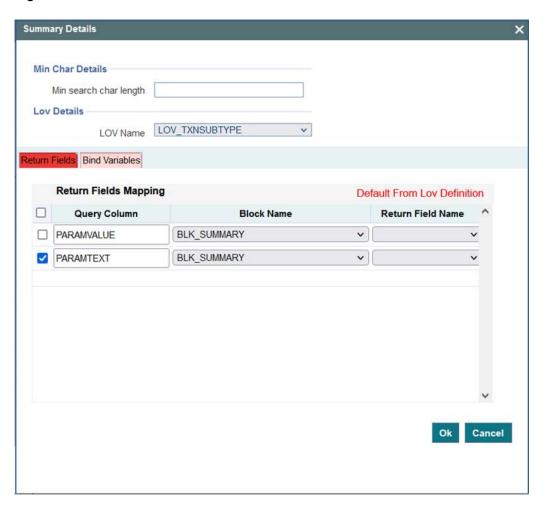
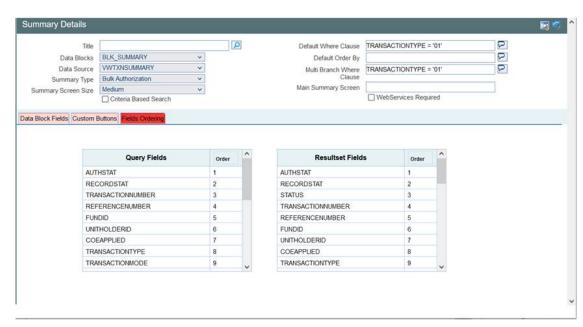


Figure 12-3 Fields Ordering



Summary Details Q 2 TRANSACTIONTYPE = '01' Default Where Clause 2 BLK_SUMMARY Data Blocks Default Order By Data Source VWTXNSUMMARY TRANSACTIONTYPE = '01' 2 Multi Branch Where Clause Bulk Authorization Summary Type Main Summary Screen Summary Screen Size Criteria Based Search ☐ WebServices Required Data Block Fields Cus tons Fields Ordering Number of Rows 1 Number of Buttons/Row E E Field Name BTN_FIND_UH LBL_GETUH Q fn_summary_FindUH() Q BTN_BULK_AUTH LBL_AUTH fn_BulkAuthorize('BULKAUTH') Q BTN_BULK_DELETE LBL_JOINTBL_DELETE fn_BulkDelete() BTN_REVERSE LBL_REVERSE Q fn_BulkReverse() BTN_OVERRIDE LBL_OVRD Q fn_BulkOverride()

Figure 12-4 Adding Custom buttons to a Screen

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

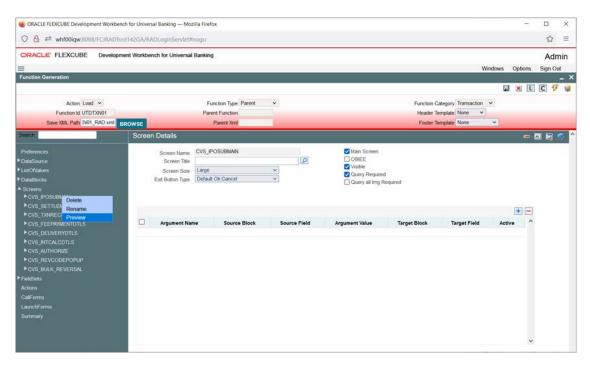
This topic describes about the screen preview.

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.





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

Figure 14-2 Sample Preview of a Screen



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

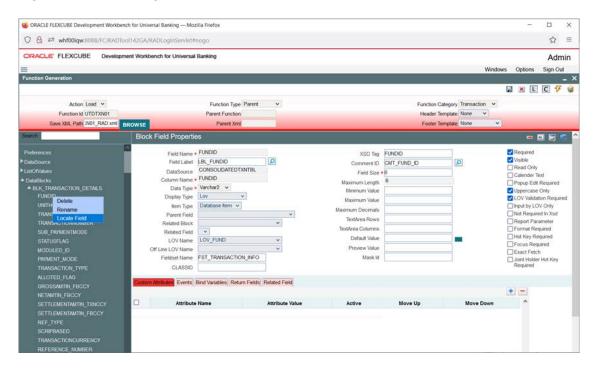
14.2 Locate Field

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.

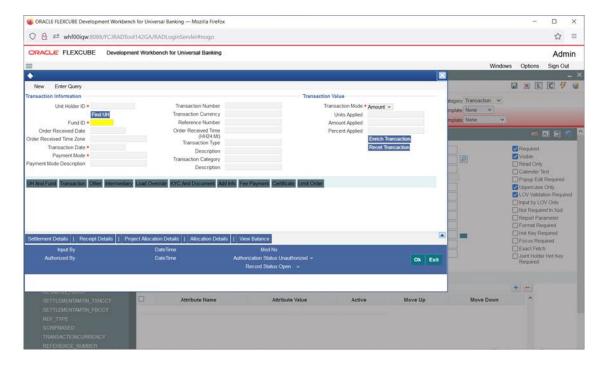


Figure 14-3 Locating a Field in Screen



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



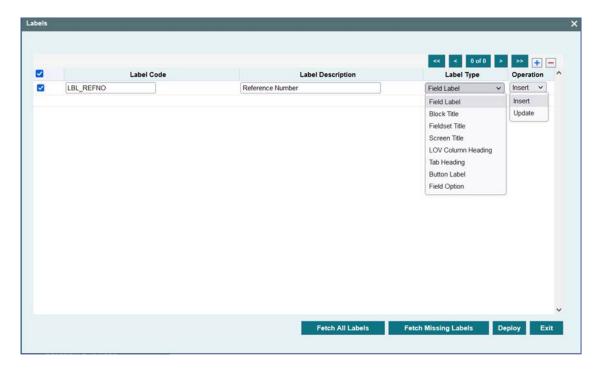


14.3 Label Code Maintenance

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



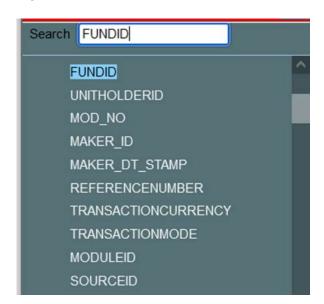
Label Codes can be maintained through this screen. Screen provides option to deploy the label codes directly to FLEXCUBE schema.

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: |
| | Label Code should start with LBL_ |
| | 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





Glossary



Index

