

Oracle Financial Services

Forms Manager User Guide

Release 2.0



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# 1 Introduction

Forms Manager is a utility, which is used to design the application user interfaces supported by Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) Forms Framework. Using Forms Manager, you can create or change an application user interface. This utility enables the user to define menus, layouts, and forms and link them together based on the needs of the application.

- **Menu-** Logical grouping of information/ application functionality or operations.
- **Layout-** Enables sectioning of screen space flexibly to present information in an optimal, clear, and user friendly manner.
- **Form-** Presentation of information in different formats (Label-Value Pair, Grid, Tab, and so on).
- **Page-** Grouping of several forms which in turn consists of one or more frames.

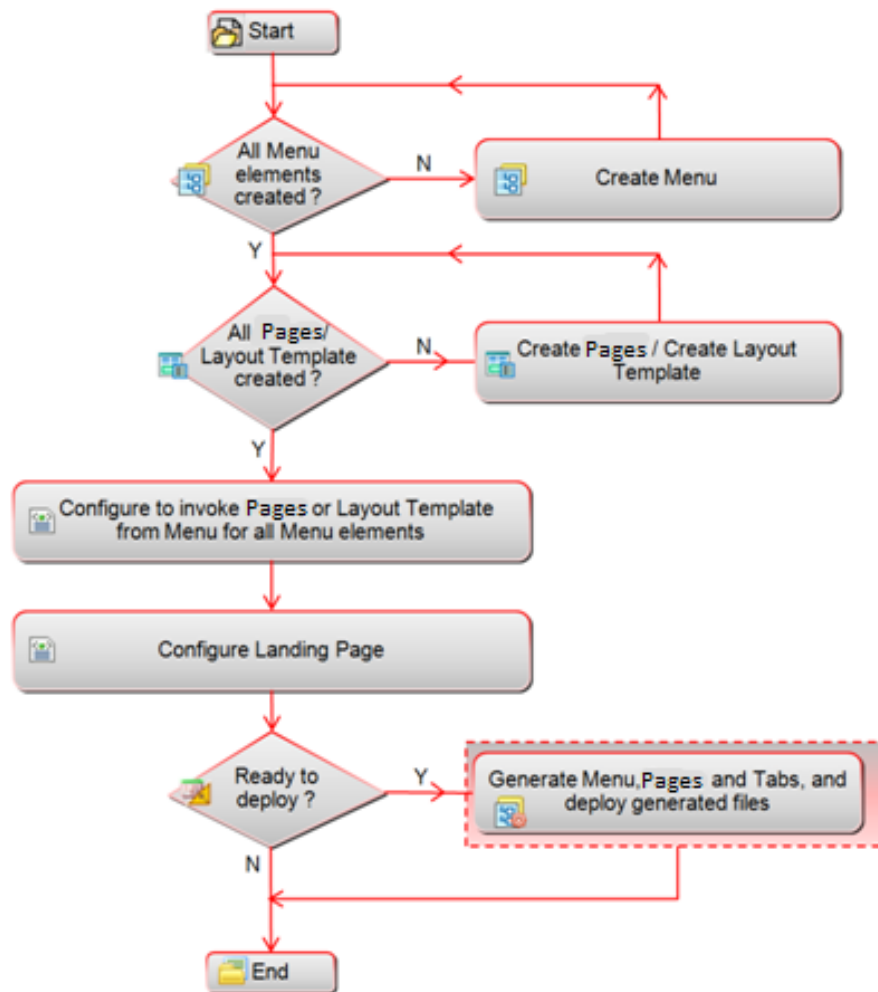


Figure 1. Flowchart of Forms Manager

## 2 Forms Manager

### 2.1 Deploying Forms Manager

To deploy Forms Manager, see [Oracle Financial Services Analytical Applications Infrastructure Administration User Guide](#).

#### 2.1.1 Accessing Forms Manager

To access Forms Manager, follow these steps:

1. From a client workstation, open the client browser and provide the URL as  
<http://<address>:<servlet port>/formsmanager/

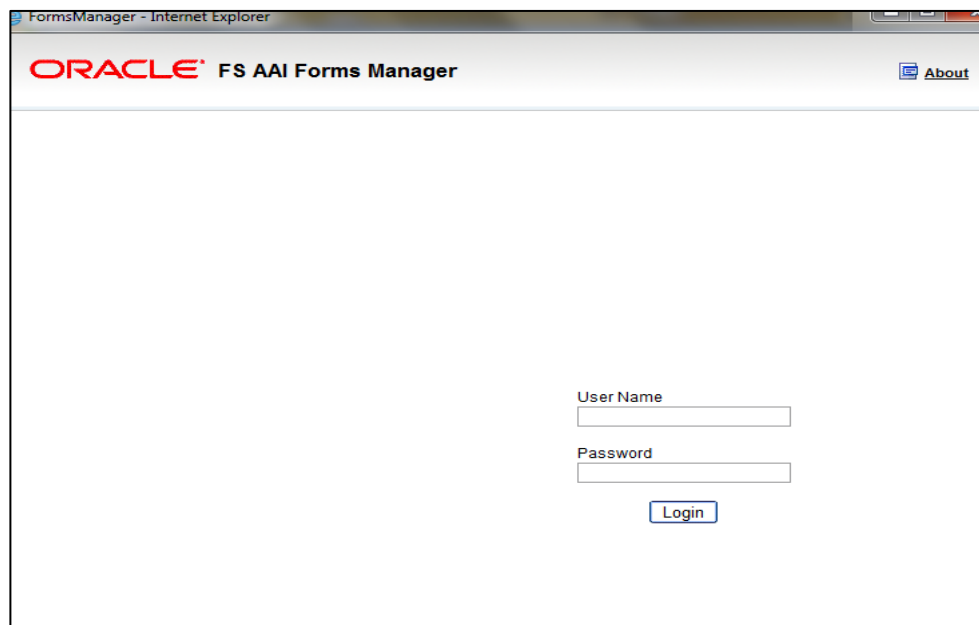
For example, <http://10.111.222.111:8888/formsmanager/>

---

**NOTE:** If https configuration is enabled, the client browser will need to disable the proxy servers through the client browser's internet options.

---

2. The Forms Manager login screen is displayed:

The image shows a screenshot of a web browser window titled "FormsManager - Internet Explorer". The page header displays the "ORACLE" logo in red, followed by "FS AAI Forms Manager" in black. In the top right corner, there is a small "About" link with a document icon. The main content area is white and contains a login form. The form has two input fields: "User Name" and "Password", each with a text box. Below these fields is a "Login" button. The browser's address bar is not visible, but the page content is clearly the login interface for the Forms Manager.

*Figure 2. Forms Manager Login Screen*

3. Enter your user ID and password. Any of the users created in Oracle Financial Service Applications Infrastructure can be used as User ID.
4. Click **Login**. The Application Packs page is displayed.
5. Click the Application for which you want to create/ edit Forms. The Forms Manager home page is displayed.

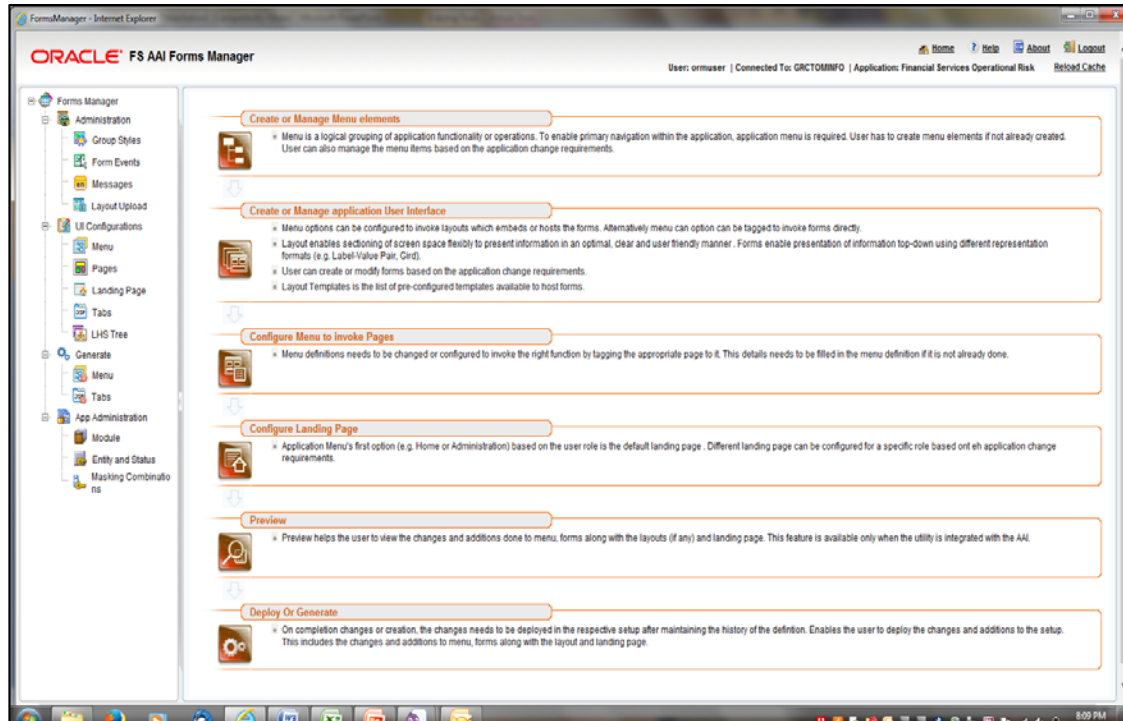


Figure 3. Forms Manager Home Screen

## 2.2 Forms Manager Home Page

The Forms Manager Home Page explains the flow of creating an Application through Forms Manager on the right hand side, and the controls to perform this task are on the left hand side. Using these controls, we can create Menus, Pages, Tabs and so on, and generate the same to create an Application.

## 2.3 User Interface Components in Forms Manager

The user interface components include menu, frame, form, container, control, and so on, that are used for the design of the user interface. More effective and powerful designs can be achieved by masking, enabling, and disabling of the components and adding validations.

Following are the descriptions for some of the user interface components.

- **Menu**— A component that displays a list of commands, presented to a user based on the user role. A menu can have up to three levels. The level determines the parent - child hierarchy of the menu items. A Menu can be used to display a page of the user interface.
- **Page**— A page is a physical instance of a layout template. A page holds components like containers and controls. A page can have one or more containers. A container can have one or more controls. A Page contains blocks that in turn call the objects which can be a Form, Tab or JSP.

The following figure displays the layout design of a page with containers and controls.

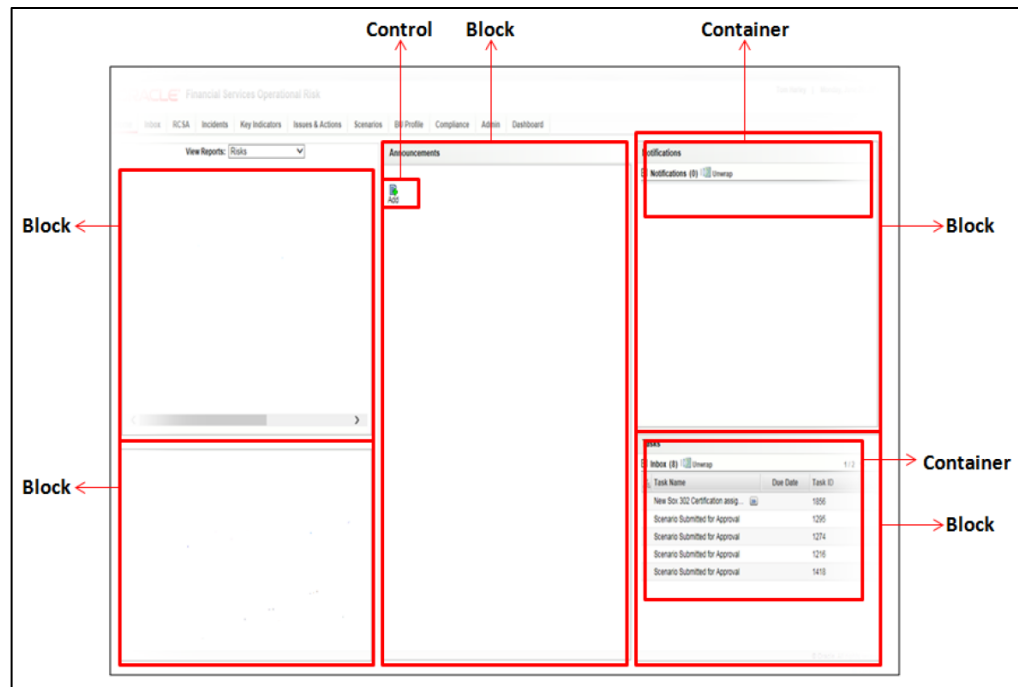


Figure 3. Page Components with Form, containers and controls

- **Tab**– A component, usually in the shape of a file folder tab, which displays a page of the user interface.
- **Tab Group**– A component that is a collection of tabs.
- **Form** – A component of a page that holds containers and controls.
- **Container** – A component within a form that acts as a background for holding smaller components like controls. Examples of containers are:
- **Normal Container** - A simple container with a label.

Figure 4. Normal Container

- **Search Container** - A container to display search fields with standard controls like Search and Clear/ Reset. A Normal Container can also be used instead of a Search Container.

Figure 5. Search Container

- **Grid Container** - A container to display information in a tabular format.

Menu Items							Rows 1-30 of 113
							< > >>
Menu ID	Application	Menu Name	Level	Order	Access Path	Menu Mode	
<input type="checkbox"/> 1115	OFS_OR	Home	0	0	Home	Development	
<input type="checkbox"/> 1114	OFS_MRM	Home	0	0	Home	Development	
<input type="checkbox"/> 1114	OFS_OR	Home	0	0	Home	Development	
<input type="checkbox"/> 1114	OFS_ERA	Home	0	0	Home	Development	
<input type="checkbox"/> 1500	DEFAULT	Home	0	1	Home	Development	

Figure 6. Grid Container

- **Tabbed Container** - A container to display different tabs in a form.

Open Tasks	Completed Tasks	Notifications	Reassigned Tasks
------------	-----------------	---------------	------------------

Inbox (0) | Reassign | Unwrap

Task_ID	Task Name	Entity Name	Status
No Data Found			

Figure 7. Tab Container

- **Button Container** - A container to define a set of button controls.
- **Difference Container** - A container to display the changes between selected records. It will show changes in different color.

Difference		
Name	risk localised	risk localised
ID	27117	27117
Description		
Risk Inventory	Credit Risk	Credit Risk
Risk Event Type	Systems	Systems
Risk Category	Facilities and Infrastructure Risk	Facilities and Infrastructure Risk
SOX	No	No
Reason For Closure		
Created Date	02-May-2014 15:52: 25	02-May-2014 15:52: 25
Created By	Risk Identifier	Risk Identifier
Status	Draft	Open
Last Modified Date		02-May-2014 15:52: 57
Last Modified By		Risk Identifier
Action Comments	Library Risk Created	Risk details Submitted

Back

Figure 8. Difference Container

- **Control** – A component within a form (that is associated to a container) that performs various activities like performing an action, displaying the data, and allowing the user to interact with the application.

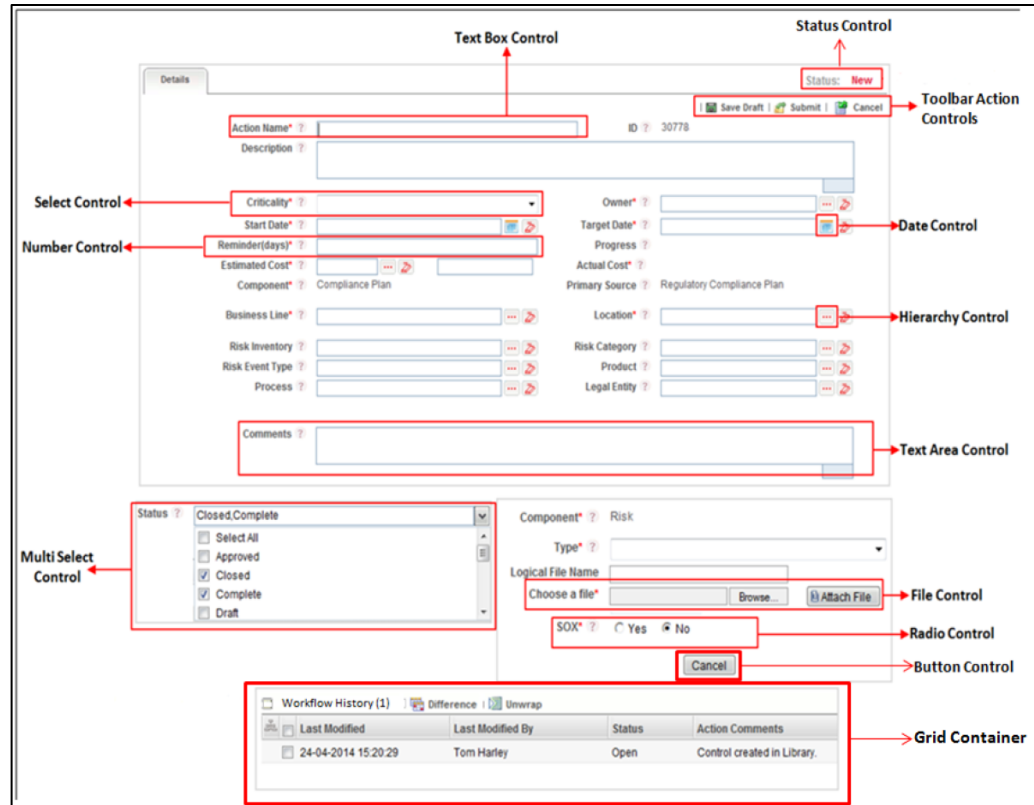


Figure 9. Different Controls

Examples of controls are:

- **Checkbox Control** – A control which enables selection of multiple options. Each option has a checkbox corresponding to it.
- **Radio Control** – A radio button that when clicked selects an option. It is not possible to select more than one option at the same time.
- **Select Control**– A control that allows single selection from a drop-down of fixed values.
- **Date Control**– A control that displays the calendar and permits the user to select a date.
- **History Control** – A control that inserts data into history tables.
- **Hierarchy Control** – A control that displays data after fetching from hierarchy.
- **KBD Control** – A set of Hierarchy controls (Key business dimensions).
- **Label Control** – A control that displays non-editable information.
- **MultiSelect Control** – A control that displays a list of values as a drop-down from which you can make multiple selections. The selection will fire dynamic query to fetch data.
- **Number Control** – A control that expects the entry of data in numeral format only.
- **Rich Text Control**– A control that expects the entry of big data in text format and supports the text with rich formatting features.



- **Text Area Control**– A control that expects the entry of big data in text format. You can also display the character count. For example, a control to enter a long description or comment.
- **Text Box Control**– A control that expects the entry of single line data in text format. For example, a control to enter name or short description.
- **Button Control** – A control for initiating or changing an action. For example, Save/ Ok, Cancel and Close.
- **File Control**- A control that is used to upload different types of files.
- **Image Label Control** – A control with an image and a label which when clicked opens another page.
- **Link Label Control** – A control that displays the text as a hyperlink which when clicked opens another page.
- **ToolBar Action Control**– A control that is used to open another form. This appears in header with an image. For example, control named “Create” when clicked opens the Create form.
- **Grid Control** - A control to call a grid container/ form.
- **Difference Control** – A control that calls a function to open a difference container.
- **Status Control**– A control that displays the status of a record such as New, Draft, Open or Closed.
  
- **Messages** – Messages are the preferred locale specific text that is displayed to the users. These messages are displayed to communicate the occurrence of an event or on checking of a validation. They are also used for displaying locale sensitive texts on the forms like Bread Crumbs, Header Text, Name of the ToolBar Action Control, and so on.

## 3 UI Configurations

### 3.1 Menu

#### 3.1.1 Overview

Menu is a list of application operations or functionality presented to you based on your role. Menu elements can be defined in different levels. Level determines the parent - child hierarchy of the menu items.

#### 3.1.2 Menu Details

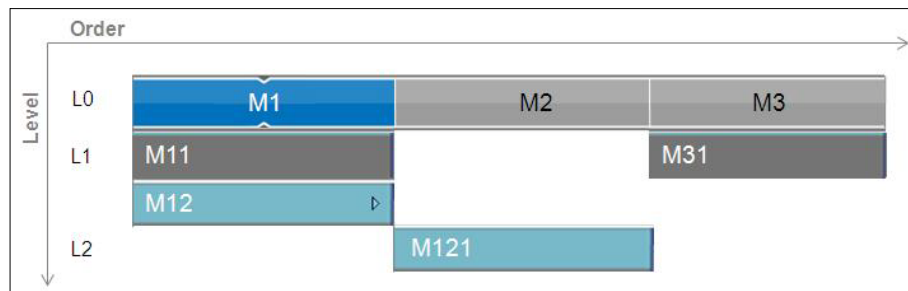



Figure 10. Menu items with different levels

- M1 menu is in horizontal order 1. It is in level '0' (L0) and it has 3 levels.
  - M11 and M12 are children of M1. These are in level '1' (L1)
  - M11 does not have any child.
    - M121 is the child of M12. It is in level 2 (L2).
- M2 menu is in horizontal order 2. It is in level '0' (L0). It does not have any child.
- M3 menu is in horizontal order 3. It is in level '0' (L0)
  - M31 is child of M3. It is in level '1' (L1)

#### More on Menu:

- Maximum number of levels supported is 3 (i.e. L0,L1,and L2).
- Maximum number of children a parent can have -> No limitation. But it is advisable to keep the maximum number of children around 5 for better representation of the page.
- For L0 elements, order means horizontal (➡) order.
- For L1/L2 elements, order means vertical (⬇) order.
- If there are more number of menu elements present than the configured number of menu to be displayed at a time, then the rest of the menu will be displayed on clicking  icon.

### 3.1.3 Flowchart

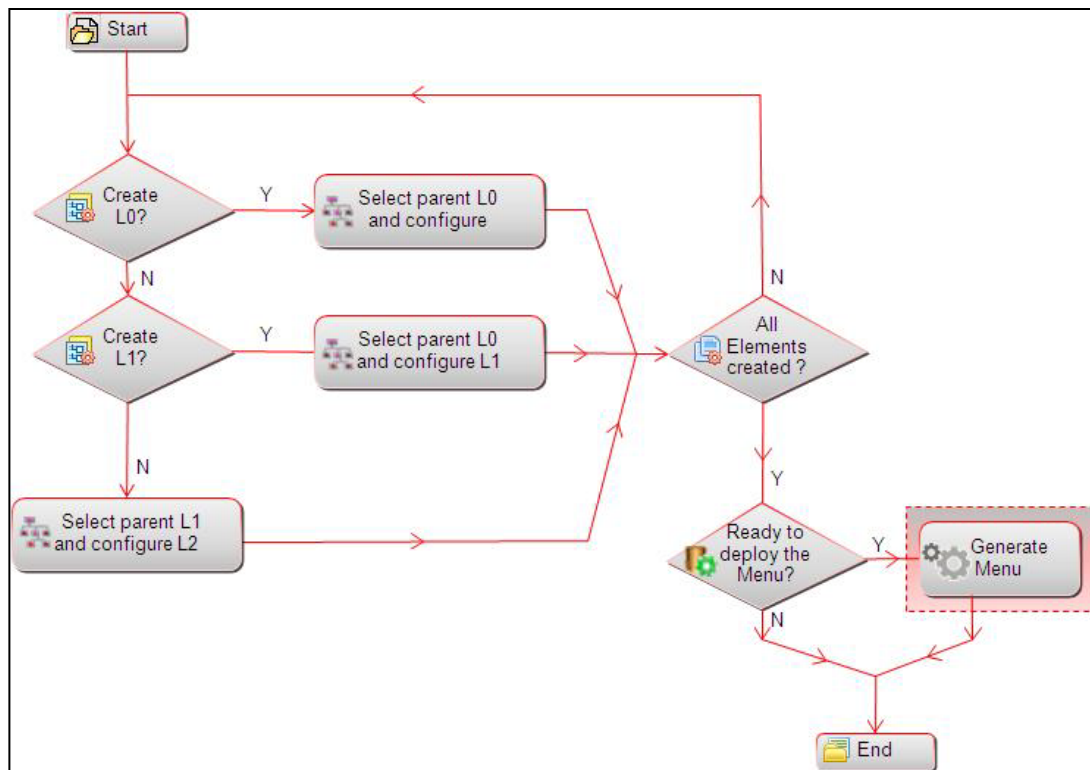


Figure 11. Flowchart of Menu

### 3.1.4 How to Create Menu?

#### Steps to create a new Menu

1. From the LHS menu, expand **UI Configurations** and click **Menu**. The *UI Configurations Menu* window is displayed.
2. Click **New** in the *Menu Items* toolbar. The *Menu Maintenance* window is displayed.

The screenshot shows the 'Menu Maintenance' window in the Oracle FS AAI Forms Manager. The window has a title bar 'FormsManager - Internet Explorer' and a header 'ORACLE FS AAI Forms Manager'. The main content area is titled 'Menu Maintenance' and contains a tabbed interface with 'Menu Details', 'Function Mapping', 'Layout Parameters', and 'Form Parameters'. The 'Menu Details' tab is active, showing a 'Menu Definition' section with the following fields:

Menu ID	1454530419998	Menu Name	
Parent Name		Menu Level	0
Menu Order	221	Is it Home	N
Page Name		Application	
Module Name		Sub Module Name	

At the bottom of the window, there are 'Save' and 'Back' buttons.

Figure 12. Menu Maintenance window

Field Name	Description and Remarks
<b>Fields marked with red asterisk (*) are mandatory.</b>	
<b>Menu Details</b>	
Menu ID	ID corresponding to the menu. It is a system generated unique number to identify the menu.
Menu Name*	Enter the name of the menu to be displayed in the application.
Parent Name	Enter/ select the name of the parent menu if you want to create a menu of Level 1 or 2. If this field is left blank, a menu of level 0 is created.  After typing characters in the text field, parents name similar to the entered values will be popped up in the suggestion box.
Menu Level	Level determines the parent /child hierarchy of the menu.  Currently maximum number of levels supported is 3. If <b>Parent Name</b> is not selected, the level will be <b>0</b> by default. If a parent of level <b>0</b> is selected, then the level value will be <b>1</b> and if a parent of level <b>1</b> is selected, then the level value will be <b>2</b> .  When you are modifying the levels of an existing Menu, then the corresponding parent and /or child levels changes is not automatic. You need to make the level changes for the corresponding parent and /or levels need to be modified using the same option for each of the corresponding menu items that will get affected.
Menu Order	Enter the order of the menu. Based on this order, the menu will be displayed compared to other menu in the same level.  For example, if you want to display two menus namely Administration and Generate, specify the menu order of Administration as 1 and Generate as 2 so that Administration will be the first menu available and Generate will be the second menu available.
Is it Home	Select <b>Y</b> from the drop-down list to make this page as home page for the menu. The available values are <b>Y</b> and <b>N</b> .
Page Name	Enter the name of the page to be called from the menu. After typing characters in the text field, page name similar to the entered values will be popped up in the suggestion box.
Application*	Select the Application ID from the <b>Application</b> drop-down list. The Menu will be displayed in the selected Application.
Module Name	Select the Module from the <b>Module Name</b> drop-down list. This list is displayed based on the Application selected.

Field Name	Description and Remarks
Sub Module Name	Select the Sub Module from the <b>Sub Module Name</b> drop-down list. This list is displayed based on the Application and Module selected.

- Click the **Function Mapping** tab.

Figure 13. Menu - Function Mapping tab

Field Name	Description and Remarks
<b>Fields marked with red asterisk (*) are mandatory.</b>	
Function Code*	<p>Click <b>Map New Function</b> in the <i>Functions</i> toolbar and enter the function code to be mapped with the menu. The users with this function code mapped can only access the menu.</p> <p>After typing characters in the text field, function codes similar to the entered values will be popped up in the suggestion box.</p> <p>For more information on Function creation, see <i>OFSAAI User Guide</i>.</p>

- Click the **Layout Parameters** tab. Click **Add New Parameter** in the *Parameters* toolbar.

Figure 14. Menu - Layout Parameters tab

Field Name	Description and Remarks
<b>Fields marked with red asterisk (*) are mandatory.</b>	
Parameter Name*	Enter the name of the parameter to be passed to the layout template. The parameter names are case sensitive.
Parameter Value*	Enter the value of the parameter mentioned in the <b>Parameter Name</b> field.
Parameter Source*	Enter the source of the parameter mentioned in the <b>Parameter Name</b> field.

**NOTE:** The reserved parameters are infodom, segment, gsUsrId, usrLocale, and roleCode. These parameters are used in every call to any object in the Forms Manager, whose name, value, and source should not be modified or removed.

- Click the **Form Parameters** tab.

Figure 15. Menu - Form Parameters tab

Field Name	Description and Remarks
<b>Fields marked with red asterisk (*) are mandatory.</b>	
Form Status	Enter the form status. Combination of Form Status, Parent Status, and Parent Mode is used in masking.
Parent Status	Enter the parent status. Combination of Form Status, Parent Status, and Parent Mode is used in masking.
Parent Mode	Enter the parent mode. Combination of Form Status, Parent Status, and Parent Mode is used in masking.

Field Name	Description and Remarks
Entity Type	Enter the unique id for each entity like risk, or <b>control</b> . Based on this value the flow of operation will be determined.
Hidden Containers	Enter the ID of the containers which should be made hidden on loading this page, separated by comma.
Additional Parameters	<p>Enter any additional parameters. These parameters will be passed to the query while fetching data.</p> <p><b>Note:</b> If you want to pass some additional parameter/ logic while fetching data, you can configure it here.</p> <p>For example, the following format is used for this field:</p> <p>&amp;Param1=Value1&amp;Param2=Value2&amp;</p>

6. Click **Save**. Click **Back** and return to the *UI Configurations Menu* window.

---

**NOTE:** Form Parameters are applicable for Pages which are defined on Form Layout.

---

### 3.1.5 Menu Maintenance

From the LHS menu, expand **UI Configurations** and click **Menu**. The *UI Configurations Menu* window is displayed.

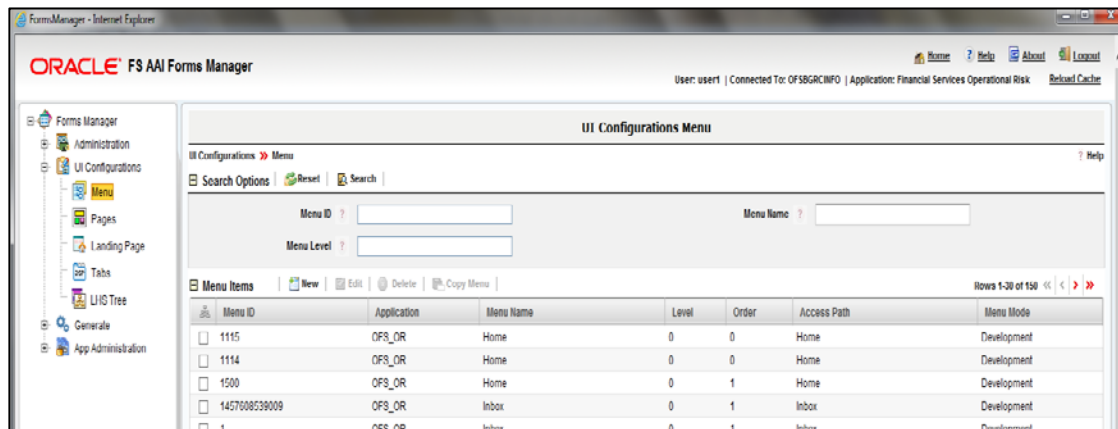


Figure 16. UI Configurations Menu window

Action	Description
Search	Enter <b>Menu ID</b> , <b>Menu Name</b> , and <b>Menu Level</b> and click <b>Search</b> in the <i>Search Options</i> toolbar.
Modify	Select a menu and click <b>Edit</b> in the <i>Menu Items</i> toolbar to modify a menu.

Action	Description
Copy Menu	Select a menu and click <b>Copy Menu</b> in the <i>Menu Items</i> toolbar to copy a menu.
Delete	Select a menu and click <b>Delete</b> in the <i>Menu Items</i> toolbar to delete a menu.



## 3.2 Pages

### 3.2.1 Overview

Pages are used to present application information in different formats using containers, and controls. Pages are placeholders for containers and the controls are embedded into containers. A Page contains blocks that in turn call the objects which can be a Form, Tab or JSP.

There can be multiple containers inside a page. Similarly there can be multiple controls in a container.

---

**NOTE:** Having excessive number of Containers in a Page or excessive number of Controls in a Container may degrade the presentation / look of the page in addition to performance.

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### 3.2.2 Flowchart of Creating a Page

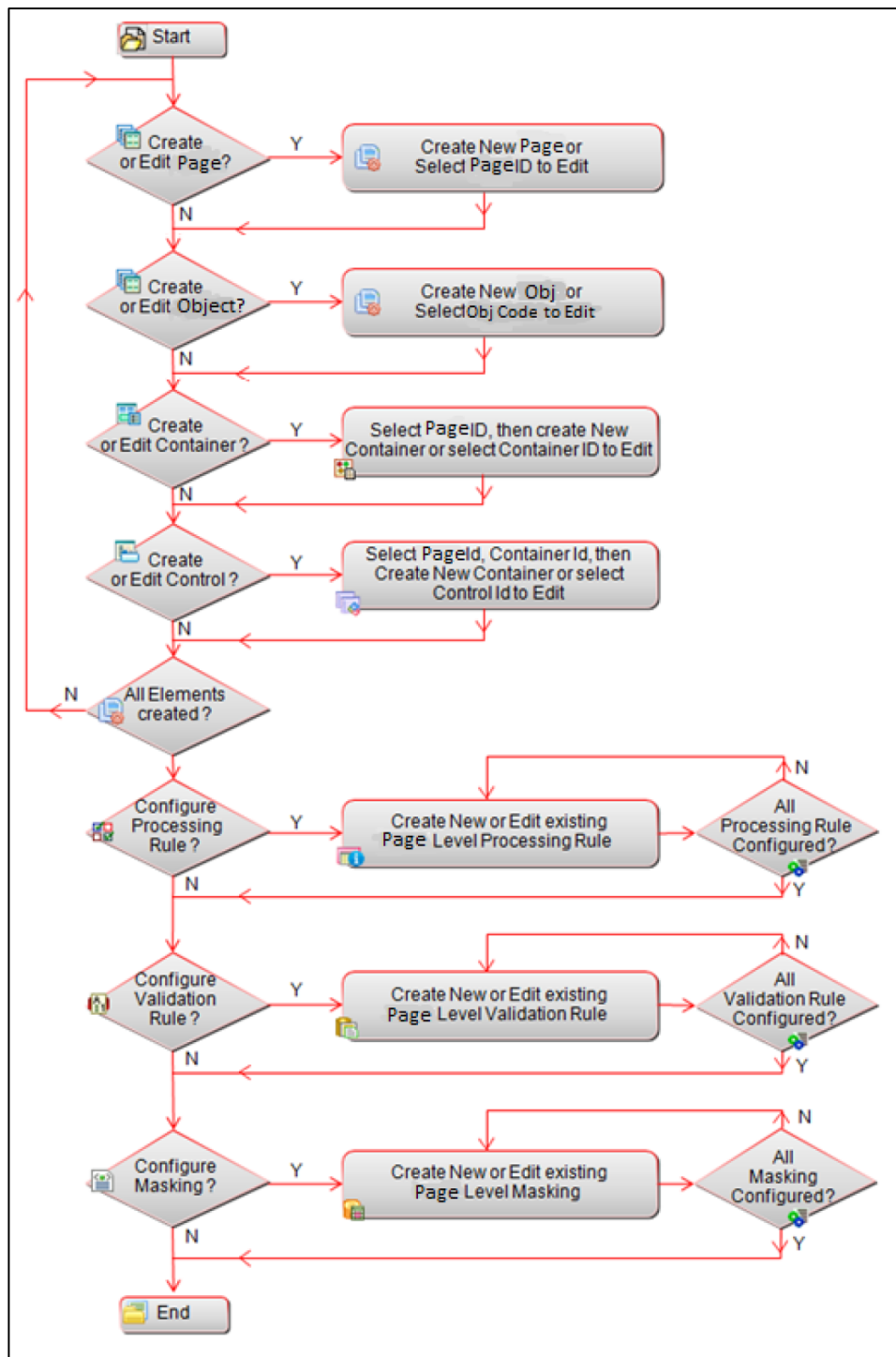


Figure 17. Flowchart of creating a Page

**NOTE:** Grid level Masking (Record based Masking) can be done through application front end. The above diagram includes Form level masking through Forms Manager Utility.

### 3.2.3 How to create a Page

#### Steps to create a new Page

1. From the LHS menu, expand **UI Configurations** and click **Page**. The *Pages* window is displayed.
2. Click **New** in the *Pages* toolbar. The *Page Details* window is displayed.

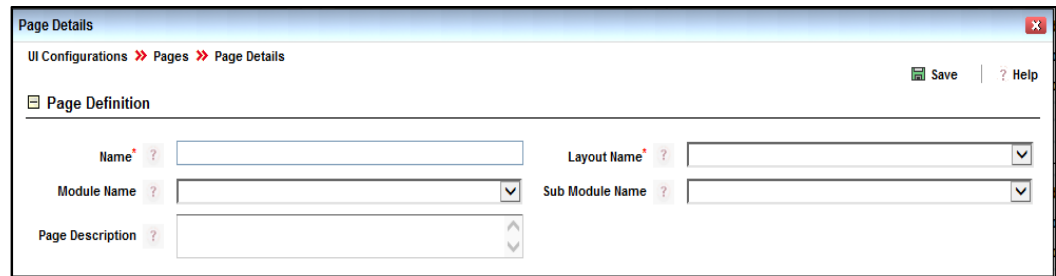


Figure 18. Page Details window

Field Name	Description and Remarks
Fields marked with red asterisk (*) are mandatory.	
Form Details	
Name *	Enter the Name of the Page you want to create.
Layout Name *	Select the type of Layout for the page from the drop-down list. This list is populated based on the Layout Templates created or seeded in the <i>Layout Upload</i> section.
Module Name	Select the Module from the <b>Module Name</b> drop-down list where this page will be called.
Sub Module Name	Select the Sub Module from the <b>Sub Module Name</b> drop-down list where this page will be called. This list is displayed based on the Module selected.
Page Description	Enter the description for this page. It is advisable to give some meaningful description with relevance to the function of the page.

3. Click **Save**. The *Page Maintenance* window is displayed.

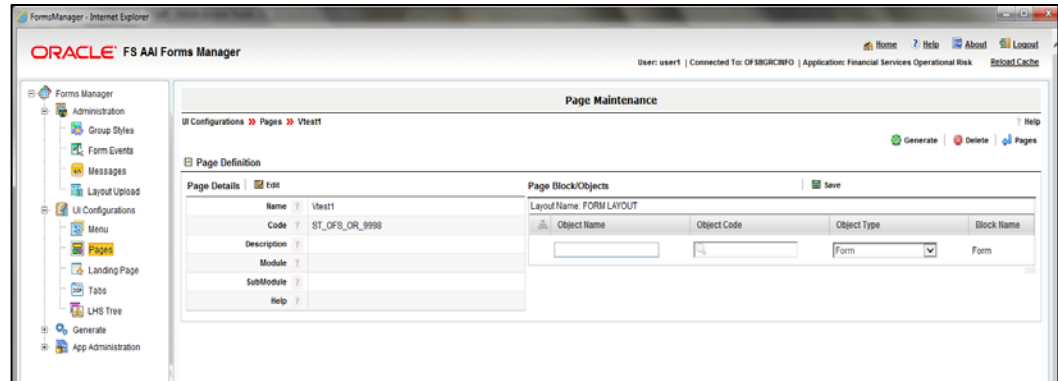


Figure 19. Page Definition Window

4. In the *Page Block/Objects* section, you can either select an existing **Object Code** or you can create a new Object by entering the **Object Code** and **Object Name** for the page. After typing characters in the text field, Object Codes similar to the entered values will be popped up in the suggestion box. Select the appropriate one. The corresponding **Object Name** will be displayed..Object Type can be of three types: Form, Tab and Custom JSP.
5. Click **Save**. The *Page Maintenance* window is displayed.

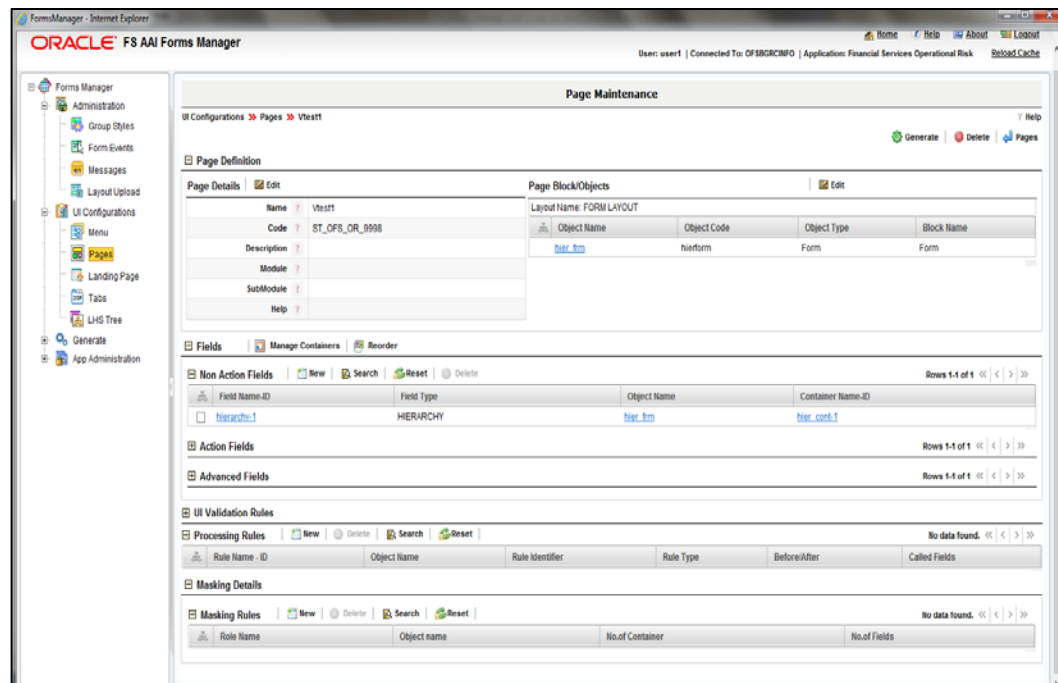


Figure 20. Page Maintenance Window

6. Click the **Object Name**. The *Page Block* window is displayed.

Page Block

UI Configurations >> Pages >> Page Block

Object Name ? Controls Advanced Search      Object Code ? FrmRiskCSrch

Object Type ? Form

Form Details   Custom Messages

Query Details

ANSI Join ?

Filter ?

Role query required? ?

Security ANSI Join ?

Security Filter ?

Additional Details

Navigation Path required? ?       Form Launch Mode ?       Enable Print? ?

Associated Entity ?       Help file required ?

Help URL ?       Help File Name ?

Figure 21. Page Block Window

7. In the *Page Block* window, the Object Name, Object Code and Object Type of the page are displayed. Enter the following details in the **Form Details** tab.

Field Name	Description
<b>Query Details</b>	
ANSI Join	Enter the "From" clause of the database select query to retrieve the data for containers presented in the form and in case of Child Form to retrieve the data for grid. (Length of this column is 4000 bytes so for big query extra space should not be there, indentation is not required).
Filter	Enter the "Where" clause of the database select query to filter data while fetching from database. (Length of this column is 4000 bytes so for big filter condition extra space should not be there, indentation is not required.)
Role query required?	Select <b>Y</b> if query for Role is required.
Security ANSI Join	Enter the list of entities which are involved in fetching the user roles. You can enter entities separated by comma or combined by Join conditions.  For example, "select de_cssms_group_role_map.V_ROLE_CODE HROLE from de_cssms_group_role_map inner join user_group_map on user_group_map.V_GROUP_CODE = de_cssms_group_role_map.V_GROUP_CODE". For this query, the entry will be "de_cssms_group_role_map inner join user_group_map".

Field Name	Description
Security Filter	Enter the filter conditions used by "Security DS Entities" to filter roles for current user. For example, "user_group_map.V_USR_ID= '%USER_ID%')".  These two fields are used to apply security settings for the form based on user roles.
<b>Additional Details</b>	
Navigation Path Required	Select <b>Y</b> if you want to display the navigation path, from the drop-down list.
Form Launch Mode	Select <b>Y</b> if you want to overlay this form on another form, from the drop-down list. This is used if you want to go back to the previous form (from where this form is launched)..
Enable Print?	Select <b>Y</b> if print icon needs to be displayed on top right side of the page for printing the page..
Associated Entity	Enter the Entity that is created for the Application which will be associated to this Object. For more information, see <a href="#">How to Create Application Entities</a> . This is used for masking purposes.
Help File Required	Select <b>Y</b> if Help File is required.
Help URL	Enter the location of the help file.
Help File Name	Enter the help file name.

8. Click the **Custom Messages** tab and click **Add Messages**.

The screenshot shows the 'Page Block' configuration window with the 'Custom Messages' tab selected. The window title is 'Page Block' and the breadcrumb is 'UI Configurations >> Pages >> Page Block'. There are 'Save' and 'Help' buttons in the top right. The 'Object Name' is 'Controls Advanced Search' and the 'Object Code' is 'FrmRiskCSrch'. The 'Object Type' is 'Form'. Below the tabs, there is a section for 'Custom Messages' with 'Add' and 'Remove' buttons. The 'Custom Message ID' field is empty. The 'Message Identifier' field has a dropdown arrow. The 'Replace Message' dropdown is set to 'Yes'. The 'Message Type' dropdown is set to 'Warning'. The 'Message Code' field has a dropdown arrow. Below this is a 'Parameters' section with an 'Add Parameter' button. A table with two columns, 'Name' and 'Value', is shown. The 'Name' column has an empty input field with a question mark icon. The 'Value' column has an empty input field with a question mark icon and a red 'X' icon to its right. At the bottom, there is a scrollbar.

Figure 22. Page Block- Custom Messages Tab

Field Name	Description
<b>Fields marked with red asterisk (*) are mandatory.</b>	
Custom Message ID*	Enter a unique id for the Custom Message.
Message Identifier*	Select the locale specific message. This should be defined from the <a href="#">Messages Maintenance</a> window.
Replace Message	Select <b>Yes</b> if you want to replace the platform message with user defined/ application message. You can also give locale specific messages here.
Message Code	This field is displayed only if you have selected <b>Yes</b> in the <b>Replace Message</b> field.  Select the platform message, which you want to replace with the custom/ application message defined in <b>Message Identifier</b> field.
Message Type	Select the message type from the drop-down list. The options are Warning, Error, Failure, Success, Confirm, Information, and Message.
<b>Parameters</b>  Click <b>Add Parameter</b> in the <i>Parameters</i> toolbar. You can remove a parameter by clicking the <b>Remove</b> button corresponding to the parameter entry.	
Name	Enter the name of the parameter.
Value	Enter the value of the parameter.

9. Click **Save**.

### 3.2.4 How to Create a Container

1. From the *Page Maintenance* window, click **Manage Containers** in the *Fields* toolbar. The *Container Details* window is displayed.

The screenshot shows the 'Container Details' window with a toolbar containing 'Container Search', 'Reset', and 'Search'. Below the toolbar are input fields for 'Container ID', 'Container Name', 'Container Type', and 'Object Name'. A table below lists the containers:

	Container Name-ID	Container Type	Object Name
<input type="checkbox"/>	Users - 1	GRID CONTAINER	Users Mapped to the Group
<input type="checkbox"/>	hier_cont - 1	NORMAL CONTAINER	hier_frm
<input type="checkbox"/>	Button Container - 2	BUTTON CONTAINER	Users Mapped to the Group

Figure 23. Container Maintenance window

- Click **New** in the *Containers* toolbar. The *Container* window is displayed.

The screenshot shows the 'Container' window with the 'Container Details' tab selected. The window contains the following fields and controls:

- Name\***: Text input field.
- ID\***: Text input field with value '2'.
- Type\***: Dropdown menu with 'NORMAL CONTAINER' selected.
- Object Name\***: Dropdown menu with 'hier\_frm' selected.
- Basic Details** (expanded):
  - Container Mode\***: Dropdown menu with 'Editable' selected.
  - Group Style\***: Dropdown menu with 'lvlv2 - One line below header' selected.
  - Container query required\***: Dropdown menu with 'No' selected.
- Additional Details** (expanded):
  - Border required\***: Dropdown menu with 'Yes' selected.
  - Header required\***: Dropdown menu with 'Yes' selected.
  - Collapse required\***: Dropdown menu with 'Yes' selected.
  - Number of Columns\***: Text input field with value '1'.
  - Horizontal Group ID\***: Text input field.
  - Container Grouping Required\***: Dropdown menu with 'No' selected.

Figure 24.. Container- Container Details Tab

Field Name	Description
Fields marked with red asterisk (*) are mandatory.	
<b>Container Details</b>	
Name*	Enter the name of the container.
ID*	ID corresponding to the container. It is a system generated unique number to identify the container.



Field Name	Description
Type*	<p>Select the type of the container from the drop-down list. The options are:</p> <ul style="list-style-type: none"> <li>SEARCH CONTAINER - To draw search container which will show Clear/Reset button with each control.</li> <li>GRID CONTAINER - To draw grid in a form. This container can have only one Grid Control.</li> <li>NORMAL CONTAINER - To draw simple label value container.</li> <li>TABBED CONTAINER - To create tabs in a form.</li> <li>BUTTON CONTAINER - To show Action button in a form without any border and header. Action button can be aligned left, middle, or right through this container.</li> <li>AUDIT PANEL- It is a legacy container which is used to display the Mapper content.</li> <li>DIFFERENCE CONTAINER - To show the changes between selected records. It will show changes in different colors. For example, you can use this container to show the differences between audit records. <b>Note:</b> In this container, you should add only one Difference Control. You should not add any other controls.</li> </ul>
Object Name*	Select the <b>Object Name</b> of the page from the drop-down list. This value is populated based on the selection of Object Code during Page creation.
<b>Basic Details</b>	
Container Mode	<p>Select the container render mode from the drop-down list. The options are:</p> <p><b>Editable-</b> You can edit the container details.</p> <p><b>Viewable-</b> You can only view the container, you cannot edit it.</p> <p><b>Hidden-</b> The container will not be displayed in the form.</p> <p><b>Note:</b> It is supported only for those containers, for which masking is not applied. UI rule validations need to be added/ reviewed according to the modified Render mode. In the case of non-editable to editable mode, required Save operation needs to be implemented.</p>
Group Style	<p>This field is displayed if you have selected Search Container or Normal Container. Select the group style from the drop-down list. For information on available group styles, see <a href="#">Sample Group Styles</a>.</p> <p>When you are changing an existing Group Style for a container and increasing the number of columns, ensure that control widths are modified accordingly.</p>
Tab layout	<p>This field is displayed if you have selected Tabbed Container.</p> <p>Enter the tab group id. This is used to group tabbed containers into one group.</p>

Field Name	Description
Container query required?	Select <b>Yes</b> or <b>No</b> from the drop-down list based on whether Container Query is required or not.
ANSI Join	This field is displayed if you have selected <b>Yes</b> in the <b>Container query required?</b> field. Length of this column is 4000 bytes, so for big query extra space should not be there and indentation is not required.
Filter	This field is displayed if you have selected <b>Yes</b> in the <b>Container query required?</b> field. "Where" clause of database select query to filter data for the Dataset Entities while fetching from database. Length of this column is 4000 bytes, so for big query extra space should not be there and indentation is not required.
<b>Additional Details</b>	
Border required?	Select <b>Yes</b> to display border to the container.
Header required?	Select <b>Yes</b> to display header to the container.
Collapse required?	Select <b>Yes</b> to display the collapse button for the container.  The Collapse property is not selected as No for the container that is already minimized on load. When you add or remove the collapse property of a Container, the group styles that are specific to the container type is added.
Number of Columns	Enter the number of columns to be displayed in the container.  When you are changing the number of columns in an existing Container and grouping the containers, take care of the alignment.
Horizontal Group ID	Enter a unique ID for all the horizontally aligned containers. Enter the same ID to group the containers.
Container Grouping Required?	Select <b>Yes</b> if Containers are to be grouped.

- Click **Save**.
- Click the **Map Controls** tab.

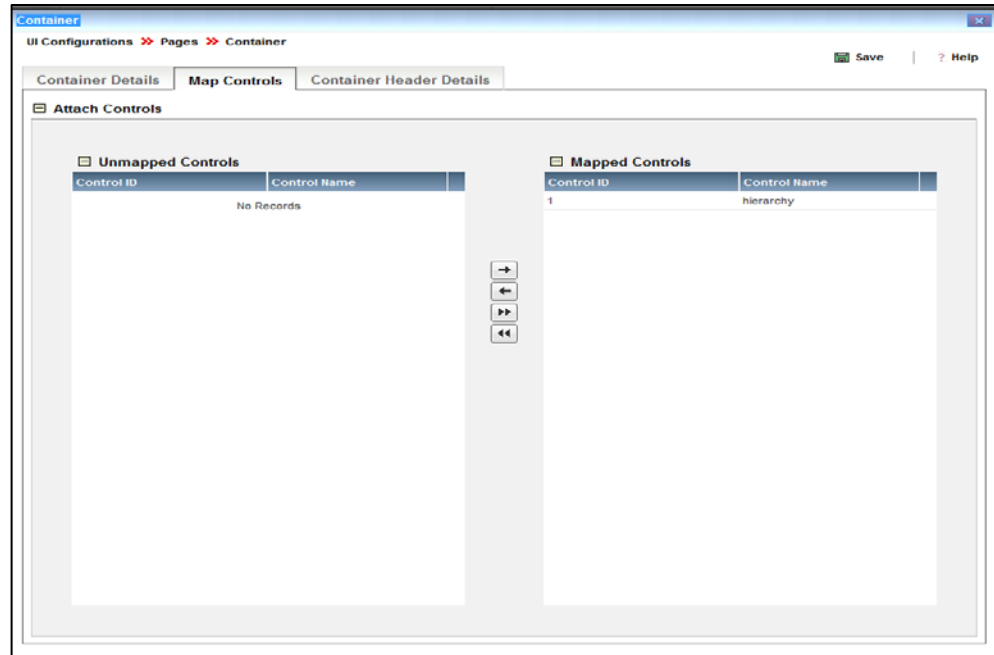


Figure 25. Container – Map Controls Tab

5. Move the Controls from the Unmapped Controls section to the Mapped Controls that you want in this container.
6. Click the **Container Header Details** tab. This tab is not displayed if the Container selected is of type Button or Tabbed.

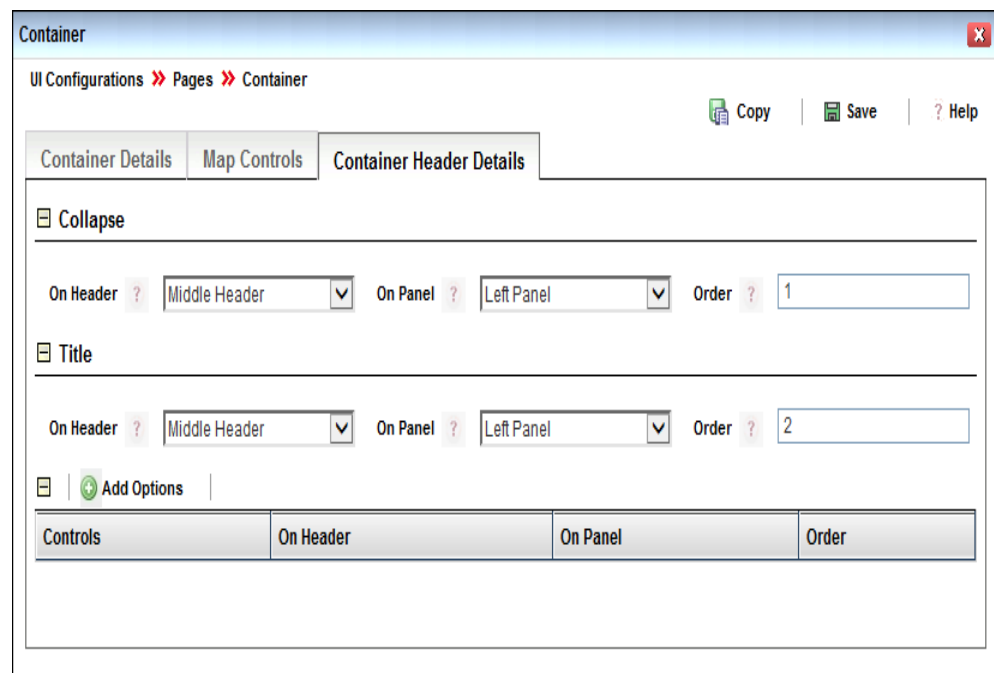



Figure 26. Container – Container Header Details Tab

Field Name	Description
Collapse	<p>Select the position of the Collapse button on the header and on the panel (left, middle, or right) of the header from the <b>On Header</b> and <b>On Panel</b> drop-down lists respectively.</p> <p>Enter the order of the Collapse button in the panel of the grid header in the <b>Order</b> field.</p> <p>Collapse image should not be placed on Header 3, which is, Content Header.</p>
Title	<p>Select the position of the Title on the header and on the panel (left, middle, or right) of the header from the <b>On Header</b> and <b>On Panel</b> drop-down lists respectively.</p> <p>Enter the order of the Title in the panel of the grid header in the <b>Order</b> field.</p>
<b>Add Options</b> If you want to add a new control in the grid header, click Add Options and enter the control details.	
Controls	<p>Click  and enter the control name in the popup.</p> <p>Select the position of the control on the header and on the panel (left, middle, or right) of the header from the <b>On Header</b> and <b>On Panel</b> drop-down lists respectively.</p> <p>Enter the order of the control in the panel of the grid header in the <b>Order</b> field.</p> <p>When you are adding a header, ensure that it does not create any distortion to headers, and suggested to use Type 25.</p>

- Click **Save**. The Container is displayed in the *Container Details* window.

### 3.2.5 How to Create Non-Action Controls

#### Steps to create a new Non- Action Control

- From the *Page Maintenance* window of your page, click **New** in the *Non- Action Fields* toolbar. The *Add Non Action Controls* window is displayed.

**Add Non Action Controls**

UI Configurations >> Pages >> Non Action Controls

Copy | Save | Help

Name\* ?  Object Name\* ?  Container ?

Type ?

**Control Details** | Events | Options

Insert Batch Index ?  DB Operation Required ?

**Additional Properties**

ToolTip ?

Context ?

CSS Style Name ?  Label Align ?

Label CSS Name ?  Data CSS Name ?

Default Value ?  Default Read Only Value ?

Figure 27. Add Non Action Control window

Field Name	Description
<b>Fields marked with red asterisk (*) are mandatory.</b>	
Name*	Enter the name of the control.
Object Name*	Select the Object Name of the page from the drop-down list. This value is populated based on the selection of Object Code during Page creation.
Container	Select the Container from the drop-down list. This list is populated based on the Containers that are created for this page.

Field Name	Description
Type*	<p>Select the type of the control from the drop-down list. The options are:</p> <ul style="list-style-type: none"> <li>CHECKBOX - To show checkbox.</li> <li>DATE - To show control with calendar.</li> <li>EXPRESSION- To show count with an image.</li> <li>HIERARCHY- To show data after fetching from hierarchy.</li> <li>HISTORY - To insert data in history table while performing DML operation.</li> <li>KBD – A group of Hierarchies which represent the Key Business Dimensions.</li> <li>LABEL - Non editable text control.</li> <li>MULTISELECT - Drop-down control which will fire dynamic query to fetch data.</li> <li>NUMBER - Allows to enter numbers only.</li> <li>RADIO - To show radio box.</li> <li>RICHTEXT - To enter rich text.</li> <li>SELECT - Single select drop-down with fixed values.</li> <li>TEXTAREA - To enter big data.</li> <li>TEXTBOX - Simple text box control.</li> </ul> <p>Based on the control type you select, the corresponding <b>Basic Properties</b> is displayed.</p>
<b>Basic Properties</b>	
Control Mode*	<p>Select the Control mode from the drop-down list. The available options are:</p> <p><b>Editable</b>- The configured user can edit the control.</p> <p><b>Viewable</b>- The configured user can only view the control, cannot edit it.</p> <p><b>Hidden</b>- The control will be hidden.</p>
Masking Required	<p>Select <b>Yes</b> if masking is required for the control. Change the Control mode along with this option.</p> <p>This is to apply masking based on the masking rights for each role.</p>
Is Mandatory	Select the checkbox to specify the control is mandatory.
Insert Batch Index	<p>Enter an index number to group controls.</p> <p>Controls can be grouped based on table and based on their DB action. For example, all the controls with Insert Batch index =1 belongs to table 1 or can perform insert action. All the controls with insert Batch index =2 belongs to table 2 or can perform update action.</p>

Field Name	Description
DB Operation Required	Select <b>Yes</b> if this control is used in database operation.
<b>Additional Properties</b>	
Tool Tip	Enter the tool tip to be displayed for the control.
Context	Enter the context help of the control.
Currency Group ID	Enter the Currency Group ID. This field is displayed only if Container selected is of the type Number/ Text Box/ Hierarchy.
No of Rows	Enter the Number of Rows for the Textbox. This field is displayed only if Container selected is of the type Textarea.
No. of Columns	Enter the Number of Columns for the Textbox. This field is displayed only if Container selected is of the type Textarea.
Css Style Name	Enter the style sheet applicable for the control.
Label Align	Select <b>Left</b> or <b>Right</b> based on which side of the container you want the control to be placed.
Label CSS Name	Enter the style sheet name applicable for the Label.
Data CSS Name	Enter the data style sheet name applicable for the Control.
Default Value	Enter the default value to be displayed for the control.
Default Read Only Value	Enter the default value to be displayed for the control. If the control is not part of the select query, value defined here will be displayed in the UI.
Placeholder	Enter the Placeholder details. This field is displayed only if Container is selected of the type Multiselect.

---

**NOTE:** Additional Details is not displayed for KBD type of Container.

---

- Click the **Events** tab and click **Add Events**. This tab is not displayed if the Container selected is of type Label or History.

**Add Non Action Controls**

UI Configurations >> Pages >> Non Action Controls

Copy Save Help

Name\* ?  Object Name\* ?  Container ?

Type ?

Control Details Events Options

Events Add Events

	Event Name	Function	
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	Remove

Figure 28. Add Non Action Control - Events tab

Field Name	Description
Event Name	<p>Enter the name of the event which will call the required function.</p> <p>For example, for action control for saving a form, you need to call the event onClick.</p> <p>You can call platform or application specific functions and user defined functions.</p> <p>It is not advised to change the existing functions. However, if you still need to change a function, the impact should be properly analyzed.</p> <p>Pass the necessary parameters for the function.</p>
Function	<p>Enter the function name.</p> <p>For example, for action control for saving a form, you need to call the function SaveContainerAsDraft.</p>

- Click the **Options** tab. This tab is displayed only if the Container selected is of type Checkbox/ Radio/ Select.



UI Configurations >> Pages >> Non Action Controls

Copy Save Help

Name\* ?  Object Name\* ? FrmTetP Container ?

Type\* ? CHECKBOX

Control Details Events Options

Options List ? Static

+ Add Options

Option Key	Option Value	
<input type="text"/>	<input type="text"/>	Remove

< >

Figure 29. Add Non Action Controls – Options Tab

4. Select the **Options List** from drop-down list. The options signify whether the Control should be **Static** and **Dynamic**. Based on the options, perform the following steps:
  - Static: Click **Add Options**. Enter the **Option Key** and **Option Value** for the Control.
  - Dynamic: Enter the **Custom Query** for the Control. This is a mandatory field.
5. Click **Save**.

### 3.2.5.1 CheckBox/ Radio/ Select Control

The screenshot shows the 'Add Non Action Controls' dialog box. The 'Type' dropdown is set to 'CHECKBOX'. The 'Control Details' tab is active. Under 'Basic Properties', the following settings are visible: Control Mode is 'Editable', Align is 'Horizontal', Insert Batch Index is '1', Masking Required is 'Yes', Is Mandatory is an unchecked checkbox, and DB Operation Required is 'No'. The 'Additional Properties' section is empty.

Figure 30. CheckBox/ Radio Control Details

Field Name	Description
Align	Select the alignment of the Control from the drop-down list. The options are <b>Horizontal</b> and <b>Vertical</b> .

### 3.2.5.2 Date Control

The screenshot shows the 'Add Non Action Controls' dialog box with the 'Type' dropdown set to 'DATE'. The 'Control Details' tab is active. Under 'Basic Properties', the following settings are visible: Control Mode is 'Editable', Is Mandatory is an unchecked checkbox, Timestamp is 'No', Insert Batch Index is '1', Masking Required is 'Yes', Enter date Required is 'No', Date Format is empty, and DB Operation Required is 'No'. The 'Additional Properties' section is empty.

Figure 31. Date Control Details

Field Name	Description
<b>Fields marked with red asterisk (*) are mandatory.</b>	
Enter Date Required	Select <b>Yes</b> if Date entry is required.
Timestamp	Select <b>Yes</b> if Timestamp has to be displayed.
Date Format*	Select the Date Format from the drop-down list.

### 3.2.5.3 Expression/ History Control

**Add Non Action Controls**

UI Configurations >> Pages >> Non Action Controls

Copy | Save | Help

Name\* ?  Object Name\* ?  Container ?

Type\* ? **EXPRESSION**

**Control Details** | Events

**Basic Properties**

Control Mode\* ?  Masking Required ?

Is Mandatory ? ☐ Insert Batch Index ?

DB Operation Required ?

**Additional Properties**

Figure 32. Expression/ History Control Details

### 3.2.5.4 Hierarchy Control

**Add Non Action Controls**

UI Configurations >> Pages >> Non Action Controls

Copy | Save | Help

Name\* ?  Object Name\* ?  Container ?

Type\* ? **HIERARCHY**

**Control Details** | Events | Extra Parameters | Dynamic Filter Parameters

**Basic Properties**

Control Mode\* ?  Masking Required ?

Is Hierarchy Main Toolbar ?  Is Mandatory ? ☐

Insert Batch Index ?  Is Drop Down ?

Node Identifier ?  Max Nodes ?

Changemode on Maxnodes ?  Is Multi Select ?

Expansion Level ?  DB Operation Required ?

Search Filter Label Required ?

**Additional Properties**

Figure 33. Hierarchy Control Details

Field Name	Description
Is Hierarchy Main Toolbar	Select <b>Yes</b> to enable the Hierarchy Main toolbar.
Is DropDown	Select <b>Yes</b> to display the Hierarchy data as drop-down list.  This is applicable only when the hierarchy is displayed in drop-down mode. When you are changing the Hierarchy Display mode to drop-down from Yes to No and No to Yes, ensure that it would not cause any issue in the existing functionality.
Node Identifier	Enter the construct node identifier. The values are Yes or No.
Max Nodes	Enter the maximum number of nodes to be displayed in the hierarchy.  Maximum number is applicable only when the hierarchy is displayed in drop-down mode.
Changemode on Maxnodes	Select <b>Yes</b> to change the mode of dropdown to hierarchy tree selection when the Max Nodes value is exceeded.
Is Multi Select	Select <b>Yes</b> to enable multiple selections of hierarchies.
Expansion Level	Enter the hierarchy nodes to the required expansion level.
Search Filter Label Required	Select <b>Yes</b> to enable the Search Filter.

1. Click the **Extra Parameters** tab. Click **Add Parameters**.

The screenshot shows the 'Add Non Action Controls' dialog box. At the top, there are tabs for 'UI Configurations', 'Pages', and 'Non Action Controls'. Below these are fields for 'Name', 'Object Name', 'Container', and 'Type' (set to 'HIERARCHY'). There are also 'Copy', 'Save', and 'Help' buttons. Below these fields are four tabs: 'Control Details', 'Events', 'Extra Parameters', and 'Dynamic Filter Parameters'. The 'Extra Parameters' tab is selected. It contains an 'Add Parameters' button and a table with the following data:

Name	Scope	Value
infodom	Request	infodom

There is a 'Remove' button next to the parameter in the table.

Figure 34. Hierarchy Control - Extra Parameters tab

Field Name	Description
Name	Enter the name of the parameter to be passed to the container. The parameter names are case sensitive.
Scope	Select the scope of the parameter mentioned in the <b>Name</b> field. The options are Static, Form, Request and Session.

Field Name	Description
Value	Enter the value of the parameter mentioned in the <b>Name</b> field.

2. Click the **Dynamic Filter Parameters** tab. Click **Add Parameters**.

Add Non Action Controls

UI Configurations >> Pages >> Non Action Controls

Copy

Save

Help

Name\* ?

Object Name\* ?

Container ?

Type\* ?

HIERARCHY

Control Details

Events

Extra Parameters

Dynamic Filter Parameters

Add Parameters

Name	Value	Scope	Type
		<div>Static</div> <div>Form</div> <div>Request</div> <div>Session</div>	

Figure 35. Hierarchy Control - Dynamic Filter Parameters tab

Field Name	Description
Name	Enter the condition expression of the dynamic filter.
Value	Enter the value to be passed to the dynamic filter.
Scope	Select the scope of the dynamic filter. The options are Static, Form, Request and Session.
Type	Enter the type of the dynamic filter.

### 3.2.5.5 KBD/ Label Control

The screenshot shows the 'Add Non Action Controls' dialog box. The breadcrumb path is 'UI Configurations >> Pages >> Non Action Controls'. The 'Type' dropdown is set to 'KBD'. The 'Basic Properties' section includes: 'Control Mode' (Editable), 'Masking Required' (Yes), 'Insert Batch Index' (1), and 'DB Operation Required' (No). There are also fields for 'Name', 'Object Name', and 'Container'.

Figure 36. KBD/ Label Control

### 3.2.5.6 MultiSelect Control

The screenshot shows the 'Add Non Action Controls' dialog box with 'Type' set to 'MULTISELECT'. The 'Basic Properties' section includes: 'Control Mode' (Editable), 'Masking Required' (Yes), 'Drop Down Height' (empty), 'Drop Down Width' (empty), 'Control Behaviour' (Multi Select), 'Is Dynamic' (No), 'Column Name Value' (empty), 'Is Mandatory' (checkbox), 'Insert Batch Index' (1), 'Select Expression' (empty), and 'From' (empty). There are also fields for 'Name', 'Object Name', and 'Container'.

Figure 37. MultiSelect Control Details

Field Name	Description
Dropdown Height	Specify the drop-down height for the MultiSelect Control.
Dropdown Width	Specify the width of the drop-down.

Field Name	Description
Control Behavior	Select the format of the dropdown from the list. The options are Multi Select, Single Select, Multi Select With Go.
Is Dynamic	Select <b>Yes</b> to enable dynamic behavior for the MultiSelect Control.
Column Name Value	Specify the table in which the values of the drop-down list are stored. This should be in <table_name>.<column_name> format.
Select Expression	This field should be <column_name>. It defines a set of data extracted from one or more tables or views.
From	This field should be <table_name>. It defines names for the table references used.
Filter Condition	This field defines the filtered data that is fetched
Dim Entity Pk	This field refers to primary key of the table.

### 3.2.5.7 Number Control

The screenshot shows the 'Add Non Action Controls' dialog box with the 'Number Control' configuration. The 'Basic Properties' tab is active, displaying the following fields:

- Name: [Empty field]
- Object Name: [Empty field]
- Container: [Empty field]
- Type: NUMBER
- Control Mode: Editable
- Masking Required: Yes
- Format Required: No
- Decimal Length: [Empty field]
- Minimum Value: [Empty field]
- Maximum Value: [Empty field]
- Minimum Length: [Empty field]
- Maximum Length: [Empty field]
- Is Mandatory: [Unchecked checkbox]
- Pk Sequence: TASKS
- Insert Batch Index: 1
- DB Operation Required: No

Figure 38. Number Control Details

Field Name	Description
Format Required	Select <b>Yes</b> if a format is required for the control.
Decimal Length	Enter the decimal length allowed for the control.

Field Name	Description
Minimum Value	Enter the minimum value that is allowed for the control. <b>Note:</b> Care needs to be taken if the value is going to be inserted in the database. The column datatype should match with the changed maximum value.
Maximum Value	Enter the maximum value that is allowed for the control. <b>Note:</b> Care needs to be taken if the value is going to be inserted in the database. The column datatype should match with the changed maximum value.
Minimum Length	Enter the minimum length allowed for the control.
Maximum Length	Enter the maximum length allowed for the control.
Pk Sequence	Enter the sequence number if the Primary key has been selected from a specified sequence.

### 3.2.5.8 Rich Text Control

**Add Non Action Controls**

UI Configurations >> Pages >> Non Action Controls

Copy | Save | Help

Name\* ?  Object Name\* ?  Container ?

Type ? **RICHTEXT**

**Control Details** | Events

☒ **Basic Properties**

Control Mode\* ? **Editable** Masking Required ? **Yes**

No of Rows ?  No of Columns ?

Is Mandatory ? ☐ Insert Batch Index ? **1**

DB Operation Required ? **No** Spell Check Required ? **Yes**

☒ **Additional Properties**

Figure 39. Rich Text Area Control Details

Field Name	Description
No of Rows	Enter the number of rows to be displayed in the text area.
No of Columns	Enter the number of columns to be displayed in the text area. The number of columns to be displayed in RichText can be modified based on the screen width.
Spell Check Required	Select <b>Yes</b> if spell check is required for the text in the text area.



### 3.2.5.9 Text Area Control

**Add Non Action Controls**

UI Configurations >> Pages >> Non Action Controls

Copy | Save | Help

Name\* ?  Object Name\* ?  Container ?

Type\* ? **TEXTAREA** ▼

**Control Details** | Events

**Basic Properties**

Control Mode* ? <input type="text" value="Editable"/> ▼	Masking Required ? <input type="text" value="Yes"/> ▼
Minimum Length ? <input type="text"/>	Maximum Length ? <input type="text"/>
Is Mandatory ? <input type="checkbox"/>	Is Tool Tip Required ? <input type="text" value="No"/> ▼
Insert Batch Index ? <input type="text" value="1"/>	Expand ? <input type="text" value="No"/> ▼
Character Count Required ? <input type="text" value="Yes"/> ▼	No of Characters ? <input type="text"/>
DB Operation Required ? <input type="text" value="No"/> ▼	Spell Check Required ? <input type="text" value="Yes"/> ▼

**Additional Properties**

Figure 40. Text Area Control Details

Field Name	Description
Minimum Length	Enter the minimum length of the text area.
Maximum Length	Enter the maximum length of the text area.
Is Tool Tip Required	Select <b>Yes</b> to display Tool tip for the control.
Expand	Select <b>Yes</b> if the text area is expandable.
Character Count Required	Select <b>Yes</b> to display the character count.
No Of Characters	Maximum number of character that can be typed in the text area.
Spell Check Required	Select <b>Yes</b> if spell check is required for the text in the text area.

### 3.2.5.10 Text Box Control

The screenshot shows the 'Add Non Action Controls' dialog box. The breadcrumb path is 'UI Configurations >> Pages >> Non Action Controls'. The 'Name' field is empty, 'Object Name' is empty, and 'Container' is empty. The 'Type' is set to 'TEXTBOX'. The 'Control Details' tab is active, showing 'Basic Properties' and 'Additional Properties' sections. The 'Basic Properties' section includes: 'Control Mode' (Editable), 'Masking Required' (Yes), 'Minimum Length' (empty), 'Maximum Length' (empty), 'Is Mandatory' (unchecked), 'Insert Batch Index' (1), 'DB Operation Required' (No), and 'Spell Check Required' (Yes). The 'Additional Properties' section is empty.

Figure 41. Text Box Control Details

Field Name	Description
Minimum Length	Enter the minimum length of the text box.
Maximum Length	Enter the maximum length of the text box.
Spell Check Required	Select <b>Yes</b> if spell check is required for the text in the text area.

## 3.2.6 How to Create Action Controls

### Steps to Create a New Action Control

1. From the *Page Maintenance* window of your page, click **New** in the *Action Fields* toolbar. The *Action Controls* window is displayed.

Figure 42. Add Action Control Window

Field Name	Description
Fields marked with red asterisk (*) are mandatory.	
Name*	Enter the name of the control.
Object Name*	Select the Object Name of the page from the drop-down list. This value is populated based on the selection of Object Code during Page creation.
Container	Select the Container from the drop-down list. This list is populated based on the Containers that are created for this page.
Type*	<p>Select the type of the control from the drop-down list. The options are:</p> <ul style="list-style-type: none"> <li>BUTTON - To show Action button in a form without any border and header. Action button can be aligned left, middle, or right through this container.</li> <li>FILE - To upload a document.</li> <li>IMAGE LABEL – To upload an image label.</li> <li>LINK LABEL - To show a text as link.</li> <li>TOOLBAR ACTION -</li> </ul> <p>Based on the control type you select, the corresponding <b>Basic Properties</b> is displayed.</p>
<b>Basic Properties</b>	

Field Name	Description
Control Mode*	<p>Select the Control mode from the drop-down list. The available options are:</p> <p><b>Editable</b>- The configured user can edit the control.</p> <p><b>Viewable</b>- The configured user can only view the control, cannot edit it.</p> <p><b>Hidden</b>- The control will be hidden.</p>
Masking Required	<p>Select <b>Yes</b> if masking is required for the control. Change the Control mode along with this option.</p> <p>This is to apply masking based on the masking rights for each role.</p>
<b>Additional Properties</b>	
Tool Tip	Enter the tool tip to be displayed for the control.
Context	Enter the context help of the control.
Css Style Name	Enter the style sheet applicable for the control.
Label Align	Select <b>Left</b> or <b>Right</b> based on which side of the container you want the control to be placed.
Label CSS Name	Enter the style sheet name applicable for the Label.
Data CSS Name	Enter the data style sheet name applicable for the Control.
Default Value	Enter the default value to be displayed for the control.
Default Read Only Value	<p>Enter the default value to be displayed for the control.</p> <p>If the control is not part of the select query, value defined here will be displayed in the UI.</p>
URL in ToolBar	<p>Select <b>Yes</b> to display URL in toolbar. This field is displayed only for ToolBar Action Control.</p> <p>It refers to the location, which is the server path in which the help file is kept.</p> <p>For example, the path will be like,</p> <p>&lt;&lt; CONTEXTPATH &gt;&gt;/help/help_&lt;&lt;LOCALE&gt;&gt;/.</p>
Action Right	<p>This is used for masking.</p> <p>This field is displayed only for ToolBar Action Control.</p>

- Click the **Events** tab and click **Add Events**. This tab is not displayed if the Container selected is of type File.

Add Action Controls

UI Configurations >> Pages >> Action Controls

Copy Save Help

Name\* ? Object Name\* ? Container ?

Type\* ? BUTTON

Control Details Events

Events Add Events

Event Name	Function

Figure 43. Add Action Control – Events Tab

Field Name	Description
Event Name	<p>Enter the name of the event which will call the required function.</p> <p>For example, for action control for saving a form, you need to call the event onClick.</p> <p>You can call platform or application specific functions and user defined functions.</p> <p>It is not advised to change the existing functions. However, if you still need to change a function, the impact should be properly analyzed.</p> <p>Pass the necessary parameters for the function.</p>
Function	<p>Enter the function name.</p> <p>For example, for action control for saving a form, you need to call the function SaveContainerAsDraft.</p>

### 3.2.6.1 Button Control

The screenshot shows the 'Add Action Controls' dialog box with the 'Button' type selected. The 'Control Details' tab is active, showing 'Basic Properties' and 'Additional Properties' sections. The 'Basic Properties' section includes 'Control Mode' (set to 'Editable') and 'Masking Required' (set to 'Yes'). The 'Additional Properties' section includes 'CSS Style Name' and 'ToolTip'.

UI Configurations >> Pages >> Action Controls

Copy | Save | Help

Name\* ?  Object Name\* ?  Container ?

Type\* ?

Control Details | Events

Basic Properties

Control Mode\* ?  Masking Required ?

Additional Properties

CSS Style Name ?

ToolTip ?

Figure 44. Button Control Details

### 3.2.6.2 File Control

The screenshot shows the 'Add Action Controls' dialog box with the 'File' type selected. The 'Control Details' tab is active, showing 'Basic Properties' and 'Additional Properties' sections. The 'Basic Properties' section includes 'Control Mode' (set to 'Editable'), 'Masking Required' (set to 'Yes'), 'Insert Batch Index' (set to '1'), and 'DB Operation Required' (set to 'No'). The 'Additional Properties' section is empty.

UI Configurations >> Pages >> Action Controls

Copy | Save | Help

Name\* ?  Object Name\* ?  Container ?

Type\* ?

Control Details | Parameters

Basic Properties

Control Mode\* ?  Masking Required ?

Insert Batch Index ?  DB Operation Required ?

Additional Properties

Figure 45. File Control Details

Field Name	Description
Insert Batch Index	Enter an index number to group controls.  Controls can be grouped based on table and based on their DB action. For example, all the controls with Insert Batch index =1 belongs to table 1 or can perform insert action. All the controls with insert Batch index =2 belongs to table 2 or can perform update action.
DB Operation Required	Select <b>Yes</b> if this control is used in database operation.

1. Click the **Parameters** tab. Click **Add Parameters**.

The screenshot shows the 'Add Action Controls' dialog box with the 'Parameters' tab selected. The dialog has a title bar with a close button. Below the title bar is a breadcrumb trail: 'UI Configurations >> Pages >> Action Controls'. There are buttons for 'Copy', 'Save', and 'Help'. Below these are input fields for 'Name', 'Object Name', and 'Container', each with a question mark icon. A 'Type' dropdown is set to 'FILE'. The main area has two tabs: 'Control Details' and 'Parameters'. The 'Parameters' tab is active, showing a table with four rows. Each row has a 'Name' field, a 'Scope' dropdown (all set to 'Request'), and a 'Value' field. To the right of each 'Value' field is a red 'X' icon and the word 'Remove'. Above the table is a green plus icon and the text 'Add PARAMETER'.

Name	Scope	Value	
infodom	Request	infodom	Remove
segment	Request	segment	Remove
gsUsrid	Request	gsUsrid	Remove
User	Request	User	Remove

Figure 46. File Control - Parameters tab

Field Name	Description
Name	Enter the name of the parameter to be passed to the container. The parameter names are case sensitive.
Scope	Enter the scope of the parameter mentioned in the <b>Name</b> field. The options are Static, Form, Request and Session.
Value	Enter the value of the parameter mentioned in the <b>Name</b> field.

### 3.2.6.3 Image Label Control

**Add Action Controls**

UI Configurations >> Pages >> Action Controls

Copy Save Help

Name\* ? Object Name\* ? Container ?

Type\* ? IMAGE LABEL

**Control Details** Events

**Basic Properties**

Control Mode\* ? Editable Masking Required ? Yes

Minimum Length ? Maximum Length ?

Label Image ? Is Image Position Last ? No

No of Columns ? Insert Batch Index ? 1

DB Operation Required ? No

**Additional Properties**

Figure 47. Image Label Control Details

Field Name	Description
Minimum Length	Enter the minimum length of the image label.
Maximum Length	Enter the maximum length of the image label.
Label Image	Select the label image.
Is Image Position Last	Select <b>Yes</b> if the position of the image is at the last.
No of Columns	Enter the number of columns.
Insert Batch Index	Enter an index number to group controls.  Controls can be grouped based on table and based on their DB action. For example, all the controls with Insert Batch index =1 belongs to table 1 or can perform insert action. All the controls with insert Batch index =2 belongs to table 2 or can perform update action.
DB Operation Required	Select <b>Yes</b> if this control is used in database operation.



### 3.2.6.4 Link Label Control

The screenshot shows a software configuration window titled "Add Action Controls". At the top, there is a breadcrumb trail: "UI Configurations >> Pages >> Action Controls". To the right of the breadcrumb are three buttons: "Copy", "Save", and "Help". Below the breadcrumb, there are three input fields: "Name" (a text box), "Object Name" (a dropdown menu), and "Container" (a dropdown menu). Below these is a "Type" dropdown menu with "LINK LABEL" selected. The main area of the window is divided into two tabs: "Control Details" (active) and "Events". Under the "Control Details" tab, there are two sections: "Basic Properties" and "Additional Properties". The "Basic Properties" section contains four fields: "Control Mode" (dropdown, set to "Editable"), "Masking Required" (dropdown, set to "Yes"), "Insert Batch Index" (text box, set to "1"), and "DB Operation Required" (dropdown, set to "No"). The "Additional Properties" section is currently empty.

Figure 48. Link Label Control Details

Field Name	Description
Insert Batch Index	Enter an index number to group controls.  Controls can be grouped based on table and based on their DB action. For example, all the controls with Insert Batch index =1 belongs to table 1 or can perform insert action. All the controls with insert Batch index =2 belongs to table 2 or can perform update action.
DB Operation Required	Select <b>Yes</b> if this control is used in database operation.

### 3.2.6.5 ToolBar Action Control

**Add Action Controls**

UI Configurations >> Pages >> Action Controls

Copy | Save | Help

Name\* ?  Object Name\* ?  Container ?

Type\* ?

**Control Details** | Events | Image Options

**Basic Properties**

Control Mode\* ?  Masking Required ?

Insert Batch Index ?  Associated Image ?

Text Along With Image ?  DB Operation Required ?

**Additional Properties**

Figure 49. ToolBar Action Control Details

Field Name	Description
Insert Batch Index	Enter an index number to group controls.  Controls can be grouped based on table and based on their DB action. For example, all the controls with Insert Batch index =1 belongs to table 1 or can perform insert action. All the controls with insert Batch index =2 belongs to table 2 or can perform update action.
Associated Image	Configure the image that is displayed with the URL.
Text Along With Image	Enter the text that is displayed with the URL.
DB Operation Required	Select <b>Yes</b> if this control is used in database operation.

1. Click the **Image Options** tab. Click **Add Image**.

**Add Action Controls**

UI Configurations >> Pages >> Action Controls

Copy Save Help

Name\* ?  Object Name\* ?  Container ?

Type\* ?

Control Details Events **Image Options**

☐ Images

Name	Operator	Value	Enable
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="TRUE"/> <input type="text" value="FALSE"/>

<  >

Figure 50. ToolBar Action Control – Image Options Tab

Field Name	Description
Name	Enter the name of the image.
Operator	Enter the operator.
Value	Enter the value.
Enable	Select <b>True</b> to enable the image.

### 3.2.7 How to Create Advanced Fields

1. From the *Page Maintenance* window of your page, click **New** in the *Advanced Fields* toolbar. The *Advance Controls* window is displayed

Advance Controls

UI Configurations >> Pages >> Advanced Fields

Copy From

Save

Help

Name\* ?

ID\* ?

5004

Type\* ?

Grid

Object Name\* ?

Container ?

Field Details

Additional Details

Header Details

Events Details

Associated Object Name\* ?

Associated Object Code\* ?

Associated Entity ?

ANSI Join ?

Filter Condition ?

Containers

No data found. << < > >>

Container Name-ID

Container Type

Fields

Add Non Action

Add Action

Delete

Column Properties

Reorder

<< < > >>

Figure 51. Advanced Control Details

Field Name	Description
Fields marked with red asterisk (*) are mandatory.	
Name*	Enter the name of the control.
ID*	This number is auto generated for the control.
Type*	<p>Select the type of the control from the drop-down list. The options are:</p> <ul style="list-style-type: none"> <li>GRID - To call a grid page.</li> <li>DIFFERENCE GRID-URL control that calls a particular function to open difference container.</li> <li>STATUS - To display and highlight record status.</li> </ul> <p>Based on the control type you select, the corresponding <b>Basic Properties</b> is displayed.</p>
Object Name*	Select the Object Name of the page from the drop-down list. This value is populated based on the selection of Object Code during Page creation..
Container	<p>Select the Container from the drop-down list. This list is populated based on the Containers that are created for this page.</p> <p><b>Note:</b> Grid control can be created only with Grid container.</p>
<b>Field Details</b>	

Field Name	Description
Associated Object Name*	Enter the name of the associated child object form to be linked to the grid control.
Associated Object Code*	Enter the code of the child form to be linked to the grid control.
Associated Entity	Enter the Entity that defines the associated Child Entity that is being accessed if the Parent form is participating in masking
ANSI Join	Enter the datasets ANSI join to obtain the grid data.
Filter Condition	Enter the "Where" clause of the database select query to filter grid data while fetching from database.

- In the **Containers** toolbar of the *Field Details* tab, the containers that are associated with the **Object Name** are displayed. Selecting the container displays the associated Action and Non Action fields in the *Fields* toolbar. To add more Action or Non Action fields, click **Add Action** or **Add Non Action** respectively in the Fields toolbar and refer [How to Create Action Controls](#) and [How to Create Non-Action Controls](#).

### 3.2.7.1 Grid Control

- Enter the details associated with the Grid control in the *Field Details* tab as mentioned in the previous section.
- Click the **Additional Details** tab.

The screenshot shows the 'Advance Controls' dialog box with the 'Additional Details' tab selected. The dialog is titled 'Advance Controls' and has a breadcrumb path 'UI Configurations >> Pages >> Advanced Fields'. It includes buttons for 'Copy From', 'Save', and 'Help'. The 'Name' field is empty, 'ID' is 2889, and 'Type' is set to 'Grid'. The 'Object Name' and 'Container' fields are also empty. The 'Additional Details' tab is active, showing various configuration options for the grid control. The options are organized into two columns:

- Left Column:**
  - Row Count: 5
  - Masking Right Column: No
  - RoleCode Column: No
  - CheckBox Required?: No
  - CheckBox Action Required?: No
  - Grid validation Required?: No
  - Navigation Required?: No
  - MultiSelect Required?: No
  - Distinct Clause used?: No
  - Border Required?: Yes
  - Collapse required?: Yes
  - Jump to Page Required?: No
  - GridLevel Wrap Required?: No
- Right Column:**
  - Column count: 1
  - Is editable?: No
  - Status Column: No
  - CheckBox Display Required?: No
  - Row Action Required?: No
  - Validation Rule ID: No
  - Group style: No
  - Persist Row: No
  - Span header Required?: No
  - Is no page border?: Yes
  - Pagination required?: Yes
  - Pagination Options Required?: No
  - Wrap Image: No

Figure 52. Grid Control - Additional Details Tab

Field Name	Description
Row Count	<p>Enter the number of rows to be displayed at a time in the grid.</p> <p>For example, if there are 20 records present and you give row count as 10, first 10 records will be displayed in the first page. You have to go to the next page to view the remaining 10 records.</p> <p>Ensure the pagination option is enabled in the grid.</p>
Column Count	<p>Enter the number of columns to be displayed in the grid.</p> <p>The number of columns should not be greater than associated number of controls used in Grid table Container (Type 6).</p>
Masking Rights Column	<p>Enter the masking rights available for the particular row in the format "CONTROL_FORM_ID_CONTROLID".</p> <p>You need to specify this if you want to apply masking for each grid row.</p>
Is Editable?	Select <b>Yes</b> if the grid needs to be editable.
Role Code Column	Enter the column name in which the role code is stored. You need to specify this if you want to apply masking for each grid row.
Status Column	Enter the column name in which the status of the record is stored. You need to specify this if you want to apply masking for each grid row.
CheckBox Required?	Select <b>Yes</b> if checkbox is required.
CheckBox Display Required?	Select <b>Yes</b> if checkbox display is required.
CheckBox Action Required?	Select <b>Yes</b> if an action is required on selecting the checkbox.
Row Action Required?	<p>Select <b>Yes</b> if action is required on clicking the row.</p> <p>When Action required is made from Yes to No, ensure Checkbox option is used.</p> <p>When Action required is made from No to Yes, the knowledge about the called unit and the necessary parameters to be passed for proper functioning is required.</p>
Grid Validation Required?	Select <b>Yes</b> if grid validation is required.
Validation Rule ID	Enter the unique ID of the validation rule.
Navigation Required?	Select <b>Yes</b> if you want to show the navigation path.
Group Style	Select the style sheet class applicable for the grid control
Multi Select Required?	Select <b>Yes</b> if Multi Select is required for the grid.

Field Name	Description
Persist Row	<p>Enter the row that will be used as tracker variable.</p> <p>For example, it should be of the following format:</p> <pre>FrmCtrlKRIGrid_1</pre> <p>Where FrmCtrlKRIGrid is the Grid form code (Associated object code)</p> <p>1 is the column control ID</p>
Distinct Clause Used?	Select <b>Yes</b> to get the record count in the grid with respect to full grid query.
Span Header Required?	Select <b>Yes</b> if Span header is required for the grid.
Border Required?	Select <b>Yes</b> if border is required for the grid. Border will not be enabled, only if selected group style is not supporting the same.
Is no Page Border?	Select <b>Yes</b> if page border is required. This should not be changed if the page border is not present.
Collapse Required?	<p>Select <b>Yes</b> if Collapse button is required for the grid.</p> <p>This option should not be removed, if the Container is displayed in minimized mode.</p>
Pagination Required?	Select <b>Yes</b> if pagination is required.
Jump to Page Required?	Select <b>Yes</b> if a jump to another page is required.
Pagination Options Required?	Select <b>Yes</b> if pagination options are required for the grid.
Grid Level Wrap Required?	<p>Select <b>Yes</b> if Grid level wrap button is required for the grid.</p> <p>Ensure to add the same entry in Headers, if applicable, while changing from No to Yes.</p>
Wrap Image	Enter the name of the grid level wrap image.
Unwrap Image	Enter the name of the grid level unwrap image.
No Data Label	Enter the message identifier to display customized 'no data found' message
No Data Display Status	<p>Select the display status of the grid from the drop-down list when there is no data in the grid. The options are:</p> <ul style="list-style-type: none"> <li>▪ Hide</li> <li>▪ Show</li> <li>▪ Minimize</li> </ul>

Field Name	Description
Sort By	<p>Enter the default Sort column. The format is as follows:</p> <p>FrmCtrlKRIGrid_5000 DESC</p> <p>Where FrmCtrlKRIGrid is the Grid form code (Associated Object code)</p> <p>5000 is Column control Id</p> <p>DESC is type of sort. It can be ASC (for ascending) or DESC ( for descending)</p>
Is Autofit Columns?	Select <b>Yes</b> to enable auto fit.
Autofit Max Columns	<p>Enter the maximum number of columns if auto fit is enabled.</p> <p>The maximum number column should not be more than the number of Columns.</p>
New CSS Name	Enter the name of the style sheet for the grid.


- Click the **Grid Header Details** tab.

Figure 53. Grid Control - Header Details tab

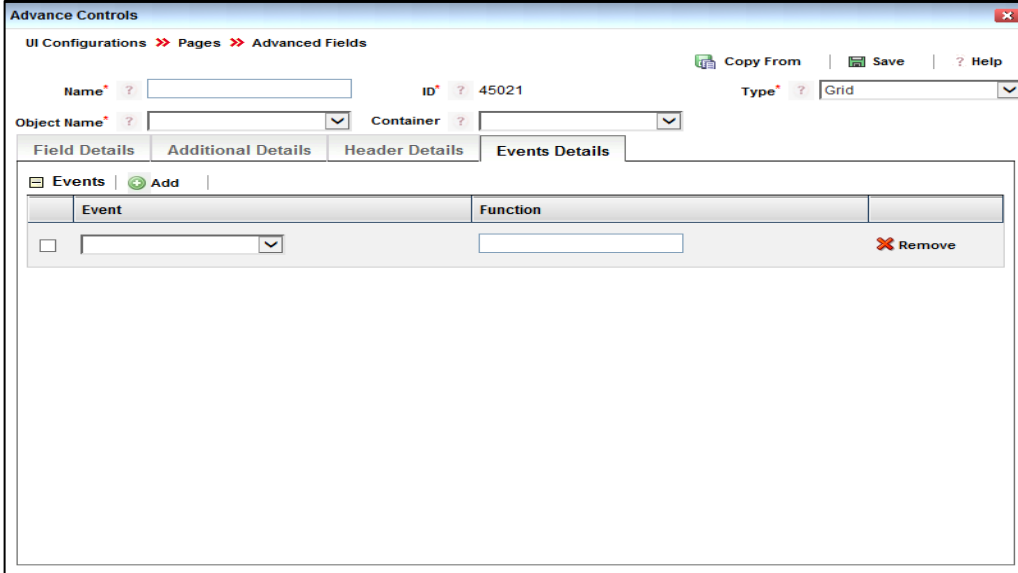
Field Name	Description
Collapse	<p>Select the position of the Collapse button on the header and on the panel (left, middle, or right) of the header from the <b>On Header</b> and <b>On Panel</b> drop-down lists respectively.</p> <p>Enter the order of the Collapse button in the panel of the grid header in the <b>Order</b> field.</p> <p>Collapse image should not be placed on Header 3, which is, Content Header.</p>



Field Name	Description
Title	<p>Select the position of the Title on the header and on the panel (left, middle, or right) of the header from the <b>On Header</b> and <b>On Panel</b> drop-down lists respectively.</p> <p>Enter the order of the Title in the panel of the grid header in the <b>Order</b> field.</p>
Row Count	<p>Select the position of the Row Count field on the header and on the panel (left, middle, or right) of the header from the <b>On Header</b> and <b>On Panel</b> drop-down lists respectively.</p> <p>Enter the order of the Row Count field in the panel of the grid header in the <b>Order</b> field.</p>
Pagination	<p>Select the position of the Pagination field on the header and on the panel (left, middle, or right) of the header from the <b>On Header</b> and <b>On Panel</b> drop-down lists respectively.</p> <p>Enter the order of the Pagination field in the panel of the grid header in the <b>Order</b> field.</p>
Wrap	<p>Select the position of the Wrap field on the header and on the panel (left, middle, or right) of the header from the <b>On Header</b> and <b>On Panel</b> drop-down lists respectively.</p> <p>Enter the order of the Wrap field in the panel of the grid header in the <b>Order</b> field.</p>
Pagination Options	<p>Select the position of the Pagination Options Req button on the header and on the panel (left, middle, or right) of the header from the <b>On Header</b> and <b>On Panel</b> drop-down lists respectively.</p> <p>Enter the order of the Pagination Options Req button in the panel of the grid header in the <b>Order</b> field.</p> <p>Ensure Pagination option is used and to add the same entry in Headers, if applicable, while changing from N to Y.</p>
Jump to Page	<p>Select the position of the Jump to Page field on the header and on the panel (left, middle, or right) of the header from the <b>On Header</b> and <b>On Panel</b> drop-down lists respectively.</p> <p>Enter the order of the Jump to Page field in the panel of the grid header in the <b>Order</b> field.</p> <p>Ensure Pagination option is used and to add the same entry in Headers, if applicable, while changing from N to Y.</p>
<b>Controls</b> If you want to add a new control in the grid header, click <b>Add</b> and enter the control details.	

Field Name	Description
Controls	<p>Click  and enter the control name in the popup.</p> <p>Select the position of the control on the header and on the panel (left, middle, or right) of the header from the <b>On Header</b> and <b>On Panel</b> drop-down lists respectively.</p> <p>Enter the order of the control in the panel of the grid header in the <b>Order</b> field.</p> <p>When you are adding a header, ensure that it does not create any distortion to headers, and suggested to use Type 25.</p>

4. Click the **Events** tab and click **Add Events**.



The screenshot shows the 'Advance Controls' dialog box with the 'Events Details' tab selected. The 'Events' section is expanded, showing a table with two columns: 'Event' and 'Function'. There is an 'Add' button above the table and a 'Remove' button next to the table row. The 'Name' field is empty, 'ID' is 45021, 'Object Name' is empty, 'Container' is empty, and 'Type' is 'Grid'.

Figure 54. Grid Control - Events tab

Field Name	Description
Event Name	<p>Enter the name of the event which will call the required function.</p> <p>For example, for action control for saving a form, you need to call the event onClick.</p> <p>You can call platform or application specific functions and user defined functions.</p> <p>It is not advised to change the existing functions. However, if you still need to change a function, the impact should be properly analyzed.</p> <p>Pass the necessary parameters for the function.</p>
Function	<p>Enter the function name.</p> <p>For example, for action control for saving a form, you need to call the function SaveContainerAsDraft.</p>

### 3.2.7.2 Difference Control

The screenshot shows the 'Advance Controls' dialog box with the 'Field Details' tab selected. The breadcrumb path is 'UI Configurations >> Pages >> Advanced Fields'. The 'Type' dropdown is set to 'Difference Grid'. The 'ID' field is populated with '1300'. The 'Field Details' section contains several input fields: 'Name', 'Object Name', 'Associated Object Name', 'Associated Object Code', 'Associated Entity', 'ANSI Join', and 'Filter Condition'. Below this is a 'Containers' table with columns 'Container Name-ID' and 'Container Type', which is currently empty with the message 'No data found.' At the bottom, there is a 'Fields' section with buttons for 'Add Non Action', 'Add Action', 'Delete', 'Column Properties', and 'Reorder'.

Figure 55. Difference Control Details tab

Field Name	Description
Is Child Form	Select <b>Y</b> if the difference control is a child form.
Child Form ID	Enter the child form id if you have selected <b>Y</b> in the Is Child Form drop-down list.

## 3.2.8 UI Validation Rule

### 3.2.8.1 Overview

Validation rules are used for performing actions in a page, based on the predefined conditions. These rules get invoked on any of the HTML events in the page such as onClick, onFocus, onBlur, and so on. The validation rules are executed on the client machine.

Validation rule comprises of three components:

- **Condition-** It provides the provision to enter the condition for the rule. Condition returns true when it is satisfied.
- **Consequence-** It provides the provision to enter the message which is displayed when the condition is satisfied.
- **Expression** - It provides the provision to enter the result (java script function/ method) which will be invoked when the condition is satisfied.

### 3.2.8.2 Steps:

Validation rules can be defined in two ways:

- **Rule with consequence**

Once the condition is satisfied, the message defined in the consequence will be displayed.

To get the value of a control, the control id needs to be preceded with form name and ~. For e.g. [~CM\_CASE\_SEARCHN.717.1]

Example 1:	
	CONDITION = "[~CM_CASE_SEARCHN.717.1]==%" " CONSEQUENCE = "[[[RENDERER.CM_WC_SRCH]]]"
Example 2:	
	CONDITION= "1==1" CONSEQUENCE= "[[[RENDERER.ROR545]]]"

**NOTE:** The condition clause should be placed in parenthesis (angular brackets).

- **Rule with Expression**

Once the condition is satisfied, the expression will be executed. The expressions can be invoking a java script method, assigning a value to a field, disabling a field and so on.

Example 1:	To assign a value to a control		
	CONDITION =	"[~CM_CUST_ACTA.131.1]== 'Yes'"	CONSEQUENCE = "[~CM_CUST_ACTA.111.1]= '3'"
Example 2:	To invoke a java script method to hide a field		
	CONDITION =	"1==1"	CONSEQUENCE = "hideTitle('FrmActionE_OPR','1')"
Example 3:	To invoke a java script method to hide a container		
	CONDITION =	"([~FrmActionE_OPR.70.1]==4)"	CONSEQUENCE = "hideTabContainer('FRMACTIONE_OPR','1221')"
Example 4:	To disable a field		
	CONDITION =	"([~FrmActionE_OPR.74.1]!= [~FrmActionE_OPR.72.1])"	CONSEQUENCE = "[~FrmActionE_OPR.20.1].disabled=true"/>
Example 5:	To assign the selected value from the hierarchy to another field		
	CONDITION =	"1==1"	CONSEQUENCE = "[([~FrmKI_OPR.1233.1])=getHierarchyCode([~FrmKI_OPR.121.1])"

### 3.2.8.3 How to create UI Validation Rulesets

A UI Validation Ruleset consists of a number of UI Validation Rules that are created for a particular page. To create a UI Validation Ruleset, follow these steps:

1. From the *Page Maintenance* window of your page, expand **UI Validation Rules** and click **New** in the *Validation Rulesets* toolbar under *UI Validation Rules* toolbar. The *Validation Ruleset* window is displayed.

Figure 56. Validation Ruleset window

Field Name	Description
Fields marked with red asterisk (*) are mandatory.	
Object Name	Select the Object Name of the page from the drop-down list. This value is populated based on the selection of Object Code during Page creation.
Rule Set Name	Enter the name of the Rule Set.
Rule Set ID*	The ID for the Rule Set is automatically generated in the order of creation. This can be changed based on the level of execution.
Description	Enter a description for the Ruleset.

2. Click **Save**.

**NOTE:** After creating validation rules, you have to go to *Events* tab of the associated Control and add the event with **Name** as ValidationRuleSet, **Scope** as Static, and **Value** as the Ruleset ID of the validation rule you want to invoke.

**NOTE:** Selecting a rule in the Validation Rules list displays the **Called Fields** that are invoked in the associated function.



#### 3.2.8.4 How to Create UI Validation Rules

1. From the *Page Maintenance* window of your page, expand **UI Validation Rules** and click **New** in the *Validation Rules* toolbar under *UI Validation Rules* toolbar. The *Validation Rule* window is displayed.

The screenshot shows a 'Validation Rule' configuration window. It includes a breadcrumb trail: 'UI Configurations >> Pages >> Validation Rule'. The window contains the following fields and controls:

- Rule Name:** A text input field with a help icon (?) to its left.
- Description:** A text input field with a help icon (?) to its left.
- Condition:** A text input field with a help icon (?) to its left, a dropdown arrow to its right, and a button with three dots (more options) to its right.
- Expression/Message Selection:** Two radio buttons labeled 'Expression' (selected) and 'Message'.
- Expression:** A text input field with a help icon (?) to its left, a dropdown arrow to its right, and a button with three dots (more options) to its right.
- Buttons:** 'Save' and 'Help' buttons are located in the top right corner.

Figure 57. Validation Rules window

Field Name	Description
Rule Name	Enter the name of the Rule.
Description	Enter a description for this Rule.
Condition	<p>Enter the condition when the Rule will be applicable or click  and form the condition by selecting the appropriate <b>Function</b>, <b>Control</b>, and <b>Operator</b>.</p> <p>Try to reuse the existing product supplied validations.</p> <p>New validations can be created using existing Java Script. If a new Java Script function is created, it has to be added to custom.js. The newly created function will not be supported.</p>
Expression or Message	Select if the rule condition should result in an expression or a message.
Expression	Enter the details of the rule to be executed if the rule condition is satisfied. Click  and form the expression by selecting the appropriate <b>Function</b> , <b>Control</b> , and <b>Operator</b> .
Message	Enter the message which will pop up when a rule condition is satisfied. This field appears when Message is selected in the previous entry.
Message Type	Select the type of Message that should be displayed when the rule condition is satisfied. The options are, Warning, Error, Failure, Success, Confirm, Information, Message.

2. Click **Save**.

### 3.2.8.5 Reordering Validation Rules in a Ruleset

1. From the *Page Maintenance* window of your page, click **Reorder** in the *Validation Rules* toolbar under *UI Validation Rules* toolbar. The *Rules Reorder* window is displayed.

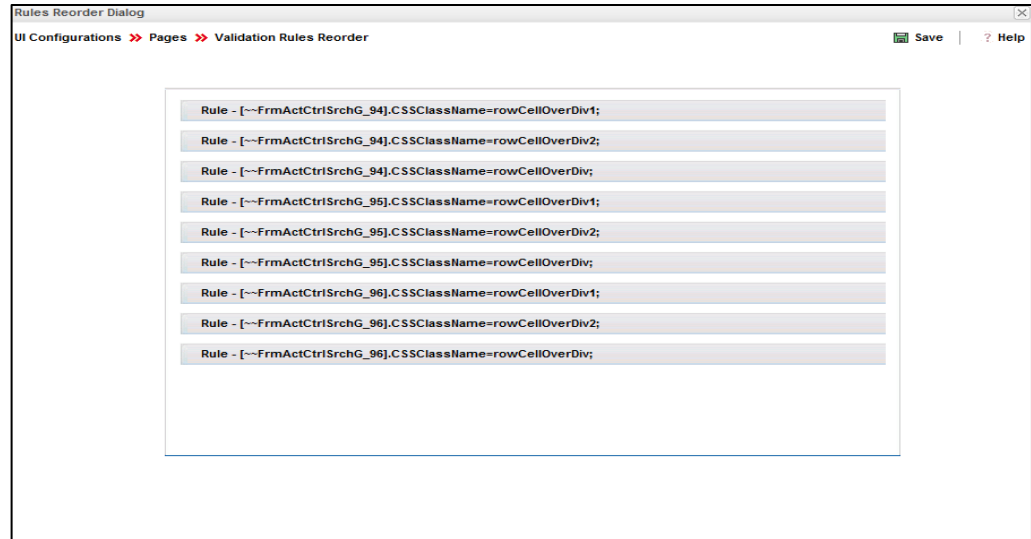


Figure 58. Reordering Validation Rules window

2. Click and drag to reorder the rules.
3. Click **Save**.

### 3.2.9 How to Create Processing Rule

**NOTE:** The processing rules are executed on the server.

1. From the *Page Maintenance* window of your page, click **New** in the *Processing Rules* toolbar. The *Serverside Rules* window is displayed.

Figure 59. Processing Rules window

Field Name	Description
Fields marked with red asterisk (*) are mandatory.	
Rule Name	Enter the name of the Processing Rule.
Rule ID*	The ID for the Processing Rule is automatically generated.
Object Name	Select the Object Name of the page from the drop-down list. This value is populated based on the selection of Object Code during Page creation.
Rule Type	<p>Select the type of the rule to be executed from the drop-down list.</p> <p><b>Execute Stored Procedure-</b> to call any stored procedure.</p> <p><b>Execute RULE-</b> to call any PR2 fire run.</p> <p><b>Execute RUN</b> –to execute Run.</p> <p><b>Invoke PMF Workflow</b> – to invoke PMF workflow.</p>
Procedure Name	Enter the name of the Procedure.
Description	Enter a valid description for the Processing Rule.
Input Parameters	Enter the parameters required for rule to get executed.
Output Parameters	Enter the expected output parameter of the rule.
Stop On Error?	Select <b>Y</b> if you want the server side to be aborted on failure.
Event Type	<p>Select <b>Before</b> or <b>After</b> from the drop-down list.</p> <p><b>Before-</b> Select this to call the processing rule before Forms refresh or save.</p> <p><b>After-</b> Select this to call the processing rule after Forms refresh or save.</p>
Error Message	Enter the message to be popped up if there is an error.

### 3.2.10 Masking of Container/ Control

This feature allows you to apply masking in container level or control level based on user roles, form status, parent mode and parent status.

#### Steps to apply masking

1. From the *Page Maintenance* window of your page, expand **Masking Details** and click **New** in the *Masking Rules* toolbar. The *Masking Rule Sets* window is displayed.



Figure 60. Masking Rule Sets window

Field Name	Description
Fields marked with red asterisk (*) are mandatory.	
Object Name*	Select the Object Name of the page from the drop-down list. This value is populated based on the selection of Object Code during Page creation.
Associated Entity*	The Associated Entity that is linked to all the masking combinations will be automatically populated here.
Role Name*	Select the role from the drop-down lists. Users with the selected role only will have access to the page.

1. Select the **Masking Rule** for which you want to choose the various view/ edit options on controls and containers. Masking rules for the associated entity can be maintained in App Administration. For more information, refer [App Administration](#).
2. Click **Object on Edit** or **Object on View** based on whether you want to configure masking on edit/view of the form or object.
3. Select the Container/ Control and click the checkbox under **Editable**, **Non Editable**, or **Hidden** based on how you want to configure. If you want to apply masking on container level, select the required checkbox corresponding to the container. If you want to apply masking on control level, expand the container and select the required checkbox corresponding to the control.

---

**NOTE:** If the **Masking Required** for control (defined during its creation) is **No**, then making it Editable or Non Editable from this screen does not have any impact. Click **Save**.

---

### 3.2.11 Page Maintenance

1. From the LHS menu, expand **UI Configurations** and click **Pages**. The *Pages* window is displayed.
2. Select the page whose elements you want to edit/delete. The *Page Maintenance* window is displayed.

---

**NOTE:** When you select a page, all containers available in the page will be displayed under *Containers* grid.

---

FormManager - Internet Explorer

ORACLE FS AAI Forms Manager

User: user1 | Connected To: OFS6403010 | Application: Financial Services Operational Risk | Reload Cache

Page Maintenance

UI Configurations >> Pages >> Vtest1

Generate Delete Pages

Page Definition

Page Details Edit

Page Block/Objects Edit

Name	Code	Description	Module	SubModule	Help
Vtest1	ST_OFS_OR_9998				

Layout Name: FORM LAYOUT

Object Name	Object Code	Object Type	Block Name
hier_frm	hierform	Form	Form

Fields Manage Containers Reorder

Non Action Fields New Search Reset Delete Rows 1 of 1

Field Name-ID	Field Type	Object Name	Container Name-ID
hierarchy-1	HIERARCHY	hier_frm	hier_cont-1

Action Fields Rows 1-1 of 1

Advanced Fields Rows 1-1 of 1

UI Validation Rules

Processing Rules New Delete Search Reset No data found. Rows 1-1 of 1

Rule Name - ID	Object Name	Rule Identifier	Rule Type	Before/After	Called Fields
----------------	-------------	-----------------	-----------	--------------	---------------

Masking Details

Masking Rules New Delete Search Reset No data found. Rows 1-1 of 1

Rule Name	Object name	No. of Container	No. of Fields
-----------	-------------	------------------	---------------

Figure 61. Page Maintenance window

Action	Description
Search	<p>Search for a page by providing <b>Page Name</b> and clicking <b>Search</b> in the <i>Search Options</i> toolbar of the <i>Pages</i> window. You can also select <b>Module Name</b> and <b>Sub Module Name</b> in the same toolbar, to make the search results easier.</p> <p>Similarly, click <b>Manage Containers</b> in the <i>Fields</i> toolbar and provide <b>Container ID, Container Name, Container Type</b> and <b>Object Name</b> and click <b>Search</b> in the <i>Container Search</i> toolbar.</p> <p>In the <i>Non Action Fields</i> toolbar, click <b>Search</b> and provide <b>Control ID, Control Name, Control Type, Object Name, Container Name, Container ID</b> and click <b>Search</b> in the <i>Control Search</i> window to search for Non Action Field.</p> <p>In the <i>Action Fields</i> toolbar, click <b>Search</b> and provide <b>Control ID, Control Name, Control Type, Object Name, Container Name, Container ID</b> and click <b>Search</b> in the <i>Control Search</i> window to search for Action Field.</p> <p>In the <i>Validation Rules</i> toolbar under <b>UI Validation Rules</b>, click <b>Search</b> and provide <b>Rule Name</b> and click <b>Search</b> in the <i>Validation Rule Search</i> window to search for Validation Rule.</p> <p>In the <i>Processing Rules</i> toolbar, click <b>Search</b> and provide <b>ID, Rule Name, Rule Identifier, Rule Type, Object Name, Event Type</b> and click <b>Search</b> in the <i>Server Rule Search</i> window to search for Processing Rule.</p> <p>In the <i>Masking Rules</i> toolbar under <b>Masking Details</b>, click <b>Search</b> and provide <b>Object Name, Role Name</b> and click <b>Search</b> in the <i>Masking Rule Search</i> window to search for Masking Rule.</p>

Action	Description
Modify	<p>Select a page and click <b>Edit</b> in the <i>Page Definition</i> toolbar to modify a page.</p> <p>Similarly, click <b>Manage Containers</b> in the <i>Fields</i> toolbar and select the container and then click <b>Edit</b> in the <i>Containers Details</i> window to modify a container.</p> <p>In the <i>Non- Actions Fields</i> grid, select a control and click <b>Edit</b> in the <i>Controls</i> window to modify a Non-Action field.</p> <p>In the <i>Actions Fields</i> grid, select a control and click <b>Edit</b> in the <i>Controls</i> window to modify an Action field.</p> <p>In the <i>Advanced Fields</i> grid, select a control and click <b>Edit</b> in the <i>Controls</i> window to modify an Advanced field.</p> <p>In the <i>UI Validation Rules</i> grid, select a Rule under <i>Validation Rule</i> and click <b>Edit</b> in the <i>Validation Rule Details</i> window to modify a Validation Rule.</p> <p>In the <i>UI Validation Rules</i> grid, select a Ruleset under <i>Validation Rulesets</i> and click <b>Edit</b> in the <i>Ruleset Details</i> window to modify a Validation Ruleset.</p> <p>In the <i>Processing Rules</i> grid, select a Rule and click <b>Edit</b> in the <i>Serverside Rule</i> window to modify a Processing Rule.</p> <p>In the <i>Masking Details</i> grid, select a Rule under <i>Masking Rules</i> and edit the details of containers and controls in the <i>Masking Rule Sets</i> window.</p>
Delete	<p>Select a page and click <b>Delete</b> in the <i>Page Maintenance</i> window to delete a page.</p> <p>Similarly, click <b>Manage Containers</b> in the <i>Fields</i> toolbar and select the container and then click <b>Delete</b> in the <i>Containers Details</i> window to delete a container.</p> <p><b>Note:</b> It is recommended to hide the Container instead of deleting.</p> <p>In the <i>Non- Actions Fields</i> grid, select a control and click <b>Delete</b> in the <i>Non Action Fields</i> toolbar to delete a Non-Action field.</p> <p>In the <i>Actions Fields</i> grid, select a control and click <b>Delete</b> in the <i>Action Fields</i> toolbar to delete an Action field.</p> <p>In the <i>Advanced Fields</i> grid, select a control and click <b>Delete</b> in the <i>Advanced Fields</i> toolbar to delete an Advanced field.</p> <p>In the <i>UI Validation Rules</i> grid, select a Rule under <i>Validation Rule</i> and click <b>Delete</b> in the <i>Validation Rules</i> toolbar to delete a Validation Rule.</p> <p>In the <i>UI Validation Rules</i> grid, select a Ruleset under <i>Validation Rulesets</i> and click <b>Delete</b> in the <i>Validation Rulesets</i> toolbar to delete a Validation Ruleset.</p> <p>In the <i>Processing Rules</i> grid, select a Rule and click <b>Delete</b> in the <i>Processing Rules</i> toolbar to delete a Processing Rule.</p> <p>In the <i>Masking Details</i> grid, select a Rule under <i>Masking Rules</i> and click <b>Delete</b> in the <i>Masking Rules</i> toolbar to delete a Masking Rule.</p>

Action	Description
Reorder	<p>Select a page and click <b>Manage Containers</b> in the <i>Fields</i> toolbar and then click <b>Reorder</b> in the <i>Containers</i> toolbar to change the order of the already created containers within the page. See <a href="#">Reordering Containers in a Page</a>.</p> <p>Select a page and click <b>Reorder</b> in the <i>Fields</i> toolbar to change the order of the already created controls within a container. See <a href="#">Reordering Controls in a Container</a>.</p>
Masking	<p>Select a page and click <b>Masking Details</b> to apply masking rules to a container/control.</p> <p>See <a href="#">Masking of Container/ Control</a>.</p>
Validation	<p>Select a page and click <b>UI Validation Rules</b> to apply validation rule to the selected page. See <a href="#">UI Validation Rule</a>.</p>
Rules	<p>Select a page and click <b>Processing Rules</b> to apply processing rules to the selected page. See <a href="#">How to Create Processing Rule</a>.</p>

### 3.2.12 Reordering Containers in a Page

1. From the *Page Maintenance* window, click **Manage Containers** in the *Fields* toolbar. The Container Details window is displayed.
2. Click **Reorder** in the *Containers* toolbar. The *Container Reorder* window is displayed.

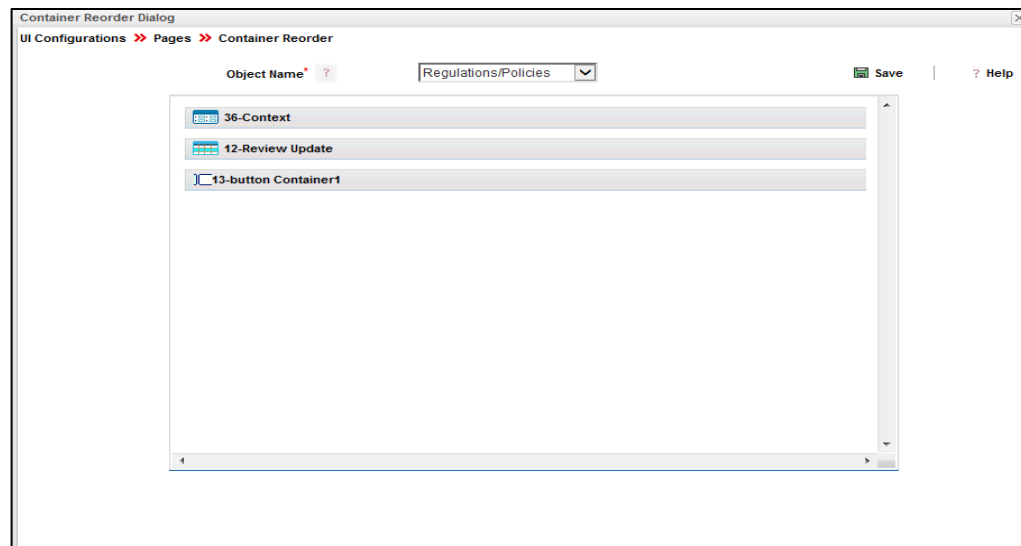


Figure 62. Container Reorder window

3. Select the **Object Name** of the page from the drop-down list. This value is populated based on the selection of Object Code during Page creation.
4. Click and drag to reorder the containers.

5. Click **Save**.

### 3.2.13 Reordering Controls in a Container

1. From the *Page Maintenance* window, click **Reorder** in the *Fields* toolbar. The *Field Reorder* window is displayed.

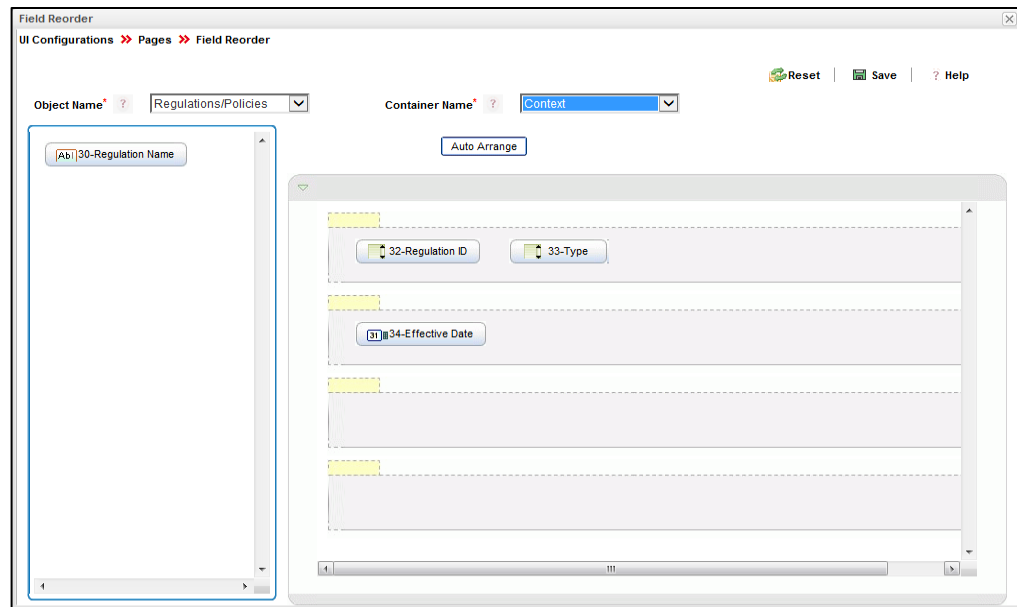


Figure 63. Field Reorder window

2. Select the **Object Name** of the page from the drop-down list. This value is populated based on the selection of Object Code during Page creation.
3. Select the Container from the drop-down list. This list is populated based on the Containers that are created for this page.
4. Click and drag each control appearing on the left side to the required container.
5. Click **Auto Arrange** to arrange the controls based on the order defined during creating the control.
6. Click **Add Span** to add a span area. Double click on the control to add the control Properties.
7. Click **Save**.

### 3.2.14 How to invoke a Page?

Page can be accessed or invoked from

- Menu/ menu options
- Frames of the layout. (Layouts are done in JSP and are referred as Hosting JSP)
- Action icon/ control/ processing button

Page can be embedded in another page too. (For example, grid container is a page by itself).

### 3.3 Landing Page

#### 3.3.1 Overview

The user will be directed to application Home page on login. This option allows configuring the landing page or default page on login based on the user's role.

- Specific menu/ submenu options or functionality can be configured as landing page for a role.
- Precedence is used to decide the landing page for a user having multiple roles.

#### 3.3.2 How Landing Page is displayed

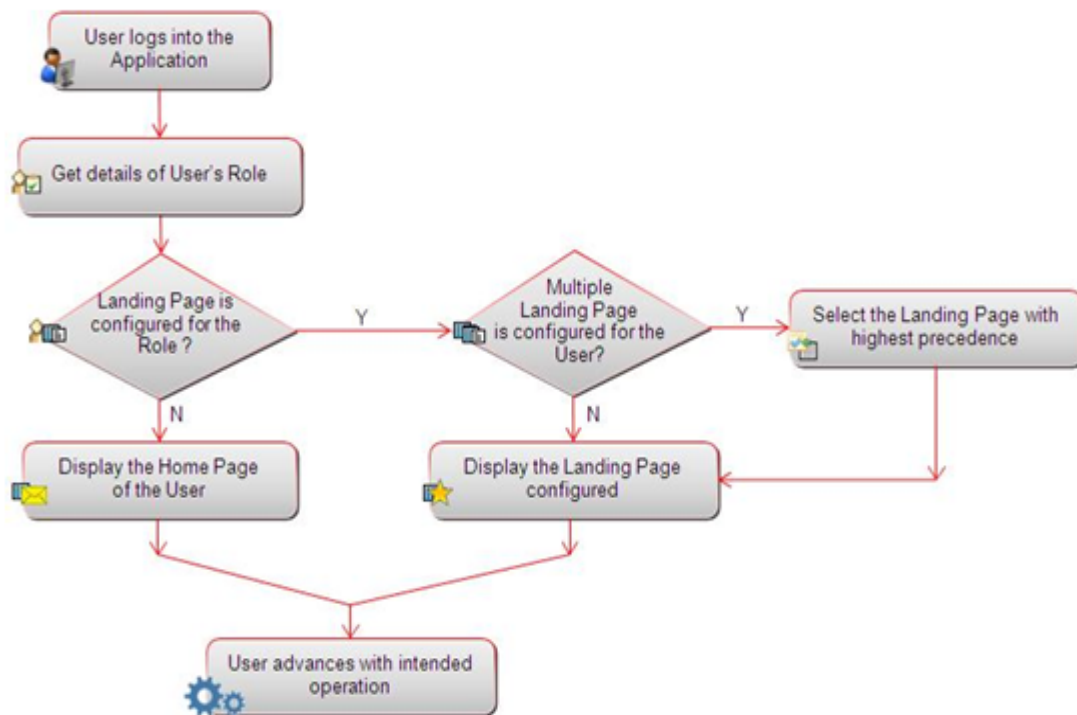


Figure 64. Flowchart of how a Landing Page is displayed

#### 3.3.3 How to Associate Landing Page to Role

##### Steps to associate a landing page to a role

1. From the LHS menu, expand **UI Configurations** and click **Landing Page**. The *Landing Page* window is displayed.
2. Click **New** in the *Landing Page* Toolbar. The *Landing Page* details is displayed.

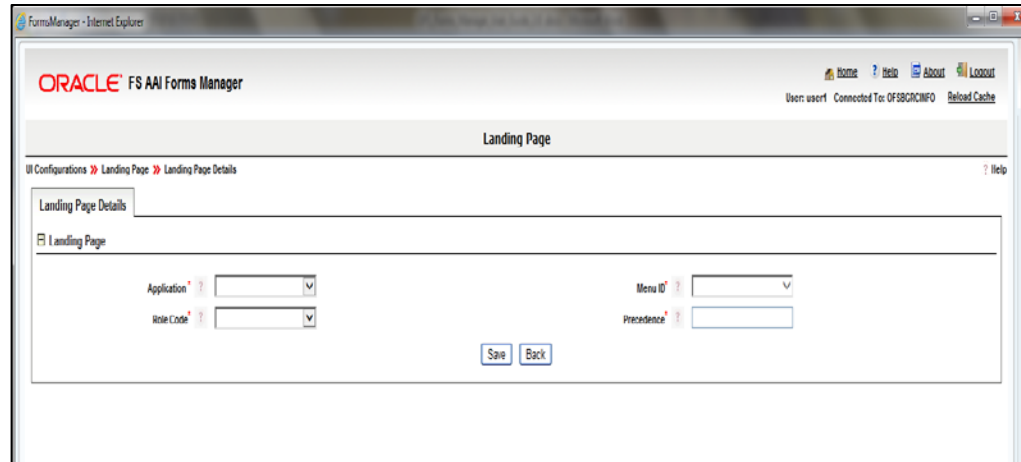


Figure 65. Landing Page Details

Field Name	Description and Remarks
Fields marked with red asterisk (*) are mandatory.	
Application*	Select the Application ID from the <b>Application</b> drop-down list. The Landing Page will be displayed in the selected Application.
Menu ID*	Select the Menu ID from the drop-down list. The selected menu will be displayed as the landing page.
Role Code*	Select the role code from the drop-down list. For the selected role, the selected menu will be displayed as the landing page.
Precedence*	Out of several landing pages assigned to a role, enter the precedence of the current landing page.

3. Click **Save**.

### 3.3.4 Landing Page Maintenance

From the LHS menu, expand **UI Configurations** and click **Landing Page**. The *Landing Page* window is displayed.



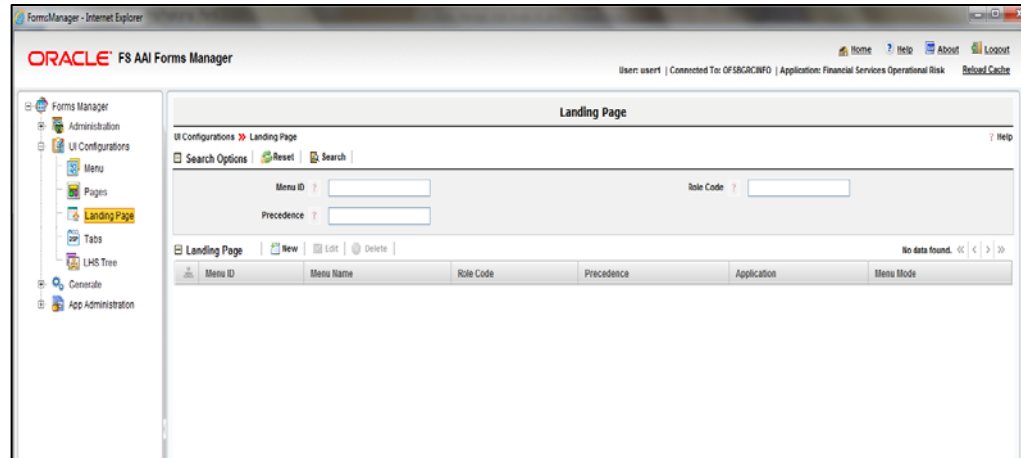


Figure 66. Landing Page window

Action	Description
Search	Enter <b>Menu ID</b> , <b>Role Code</b> , and <b>Precedence</b> . Click <b>Search</b> in the <i>Search Options</i> Toolbar.
Edit	Select a Landing Page record and click <b>Edit</b> in the <i>Landing Page</i> Toolbar to edit a Landing Page.
Delete	Select a Landing Page record and click <b>Delete</b> in the <i>Landing Page</i> Toolbar to delete a Landing Page.

## 3.4 Tabs

### 3.4.1 Overview

This option allows you to create tabs to be displayed in the application screen.

A Tab Group is a collection of tabs. You can define a tab group in the Tab Group Master. After creating the tab group, you have to create the tabs for the tab group. You can modify (add/remove / re-order tabs) at any point of time. Tab groups can be mapped to multiple forms.

### 3.4.2 Flow Chart

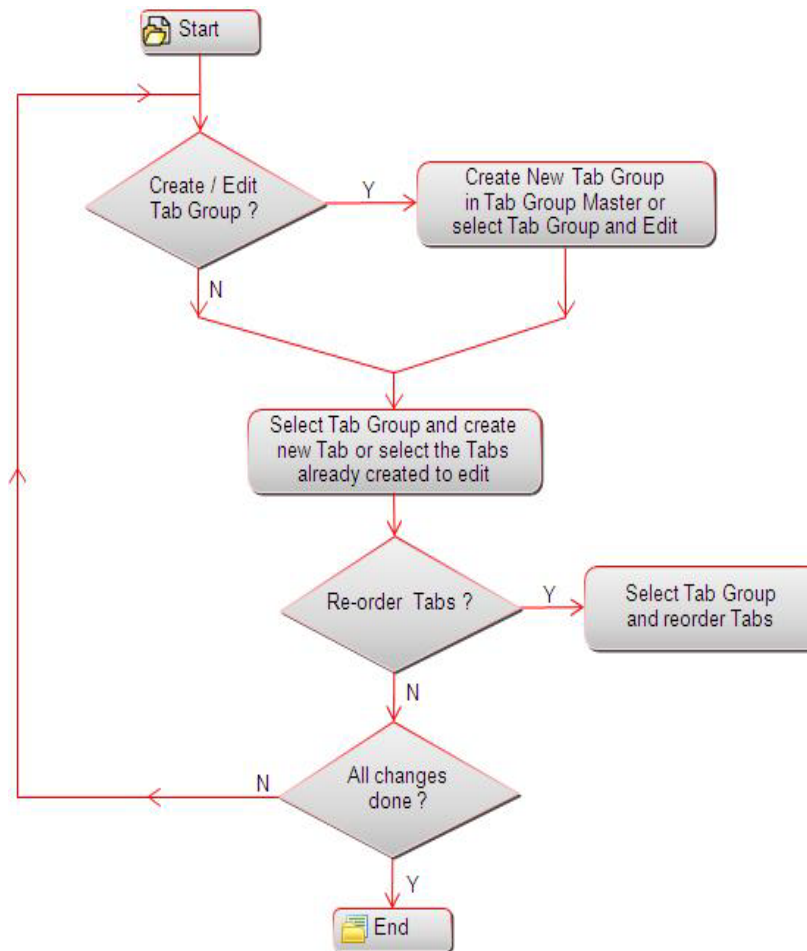


Figure 67. Flowchart of Tab

### 3.4.3 How to create a Tab

#### Steps to create a Tab Group

1. From the LHS menu, expand **UI Configurations** and click **Tabs**. The *Custom Tab Maintenance* window is displayed.
2. Click **New** in the *Tab Group Master* Toolbar.

The screenshot shows the 'Custom Tab Maintenance' page in the Oracle FS AAI Forms Manager. The page has a breadcrumb trail: 'UI Configurations > Tabs > Custom Tab Maintenance'. The 'Tab Group Details' section contains the following fields:

- Tab Group Name\***: A text input field with a red asterisk indicating it is mandatory.
- Application\***: A drop-down menu with a red asterisk indicating it is mandatory.
- Sub Module Name**: A drop-down menu.
- Tab Group Description**: A text input field.
- Module Name**: A drop-down menu.

At the bottom right of the form, there are 'Save' and 'Back' buttons.

Figure 68. Tab Group Details

Field Name	Description and Remarks
Fields marked with red asterisk (*) are mandatory.	
Tab Group Name*	Enter the name of the Tab Group. This is a mandatory field. The Tab Group name should have a prefix "CS_".
Tab Group Description	Enter the description of the Tab Group.
Application*	Select the Application ID from the <b>Application</b> drop-down list. The Tab Group will be displayed in the selected Application.
Module Name	Select the Module from the <b>Module Name</b> drop-down list. This list is displayed based on the Application selected.
Sub Module Name	Select the Sub Module from the <b>Sub Module Name</b> drop-down list. This list is displayed based on the Application and Module selected.

3. Click **Save**.

### Steps to create a Tab

1. Select the Tab Group to which you want to add tab and click **New** in the *Tab* toolbar.

The screenshot shows the 'Custom Tab Maintenance' window in the Oracle FS AAI Forms Manager. The 'Tab Details' tab is active, displaying a form for creating or editing a tab. The form includes the following fields:

- Tab name\***: A text input field.
- Tab Description**: A text input field.
- Page Name\***: A text input field with a suggestion box below it.
- Tab Frame\***: A text input field.
- Tab Refresh Req**: A dropdown menu with 'Y' and 'N' options.
- Application\***: A dropdown menu with 'DEFAULT' selected.
- Sub Module Name**: A dropdown menu.
- Tab Form Parameter\***: A text input field.
- Module Name**: A dropdown menu.

At the bottom of the form are 'Save' and 'Back' buttons. The window title bar indicates it is running in Internet Explorer.

Figure 69. Tab Details tab

Action	Description
Fields marked with red asterisk (*) are mandatory.	
Tab Name*	Enter the name of the tab.
Tab Description	Enter the description of the tab.
Page Name*	Enter the name of the Page to display the tab in. After typing characters in the text field, Page Names similar to the entered values will be popped up in the suggestion box. Select the appropriate one.
Tab Frame*	Enter the frame which is linked to the tab. This is a mandatory field.
Tab Refresh Req	Select <b>Y</b> or <b>N</b> to configure if the tab should be refreshed or not.
Tab Form Parameter*	Enter the parameter to be passed to the tab form. This is a mandatory field.
Application*	Select the Application ID from the <b>Application</b> drop-down list. The Tab will be displayed in the selected Application.
Module Name	Select the Module from the <b>Module Name</b> drop-down list. This list is displayed based on the Application selected.
Sub Module Name	Select the Sub Module from the <b>Sub Module Name</b> drop-down list. This list is displayed based on the Application and Module selected.

- Click the **Parameters** tab. Click **Add Parameter** in the *Parameters* toolbar.

Parameter Name	Parameter Source	Parameter Value	
infoDom	static	OF@SGRCINFO	Remove
segment	static		Remove
getJstid	request	getJstid	Remove
User	request	User	Remove
gb@readcumb	request	gb@readcumb	Remove
roleCode	request	roleCode	Remove

Figure 70. Tab - Parameters tab

Field Name	Description and Remarks
Fields marked with red asterisk (*) are mandatory.	
Parameter Name*	Enter the name of the parameter to be passed to the layout template. The parameter names are case sensitive.
Parameter Source*	Enter the value of the parameter mentioned in the <b>Parameter Name</b> field.
Parameter Value*	Enter the source of the parameter mentioned in the <b>Parameter Name</b> field.

- Click the **Tab - Function Mapping** tab.

Function Code	
	Remove
	Remove

Figure 71. Tab Details - Tab Function Mapping tab

- Click **Map Function** and enter the function code to be mapped with the tab. The users with this function code mapped can only access the tab. After typing

characters in the text field, function codes similar to the entered values will be popped up in the suggestion box.

5. Click the **Tab Display Filters** tab and then click **Add Combination**.

The screenshot shows the 'Custom Tab Maintenance' window in the Oracle FS AAI Forms Manager. The 'Tab Display Filters' tab is selected. It features a table with columns: Set ID, Parameter Name, Parameter Value, and Operator. Below the table is an 'Add Combination' button. The table has one row with empty input fields for Set ID, Parameter Name, and Parameter Value, and a dropdown menu for the Operator set to 'AND'. There are 'Save' and 'Back' buttons at the bottom.

Figure 72. Tab Details – Tab Display Filters tab

Field Name	Description and Remarks
Set ID	Enter the ID of the set.
Parameter Name	Enter the name of the parameter.
Parameter Value	Enter the value of the parameter.
Operator	Select the operator type from the drop-down list. The operators are <b>AND</b> and <b>OR</b> .

6. Click **Save**.

### 3.4.4 Custom Tab Maintenance

From the LHS menu, expand **UI Configurations** and click **Tabs**. The *Custom Tab Maintenance* window is displayed.

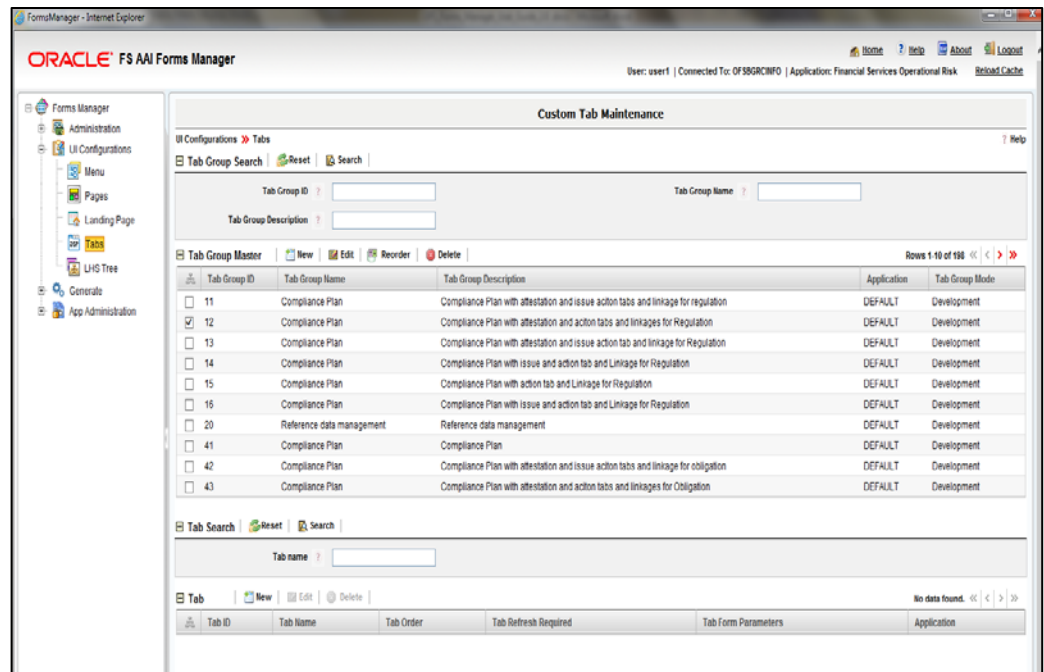


Figure 73. Custom Tab Maintenance window

Action	Description
Search	<p>Search for a tab group by providing <b>Tab Group ID</b>, <b>Tab Group Name</b>, and <b>Tab Group Description</b> and then clicking <b>Search</b> in the <i>Tab Group Search</i> toolbar.</p> <p>Similarly, select a tab group and provide <b>Tab Name</b>, and then click <b>Search</b> in the <i>Tab Search</i> toolbar to search for a tab.</p>
Modify	<p>Select a tab group and click <b>Edit</b> in the <i>Tab Group Master</i> toolbar to modify a tab group.</p> <p>Select the tab group and tab, and then click <b>Edit</b> in the <i>Tab</i> toolbar to modify a tab.</p>
Delete	<p>Select a tab group and click <b>Delete</b> in the <i>Tab Group Master</i> toolbar to delete a tab group.</p> <p>Select the tab group and tab, and then click <b>Delete</b> in the <i>Tab</i> toolbar to delete a tab.</p>
Reorder	<p>Select a tab group and click <b>Reorder</b> in the <i>Tab Group Master</i> toolbar to change the order in which the tabs should be displayed.</p>

## 3.5 LHS Tree

### 3.5.1 Overview

This option allows you to create LHS Tree group to be displayed in the application screen.

A LHS Tree Group is a collection of LHS Tree items. You can define an LHS tree in the *LHS Tree Maintenance* screen. After creating the LHS Tree Group, you need to create LHS tree items for the LHS Tree Group. You can modify (add/ remove / re-order LHS tree items) at any point of time. A single LHS Tree Group can be mapped to multiple forms.

### 3.5.2 Flow Chart

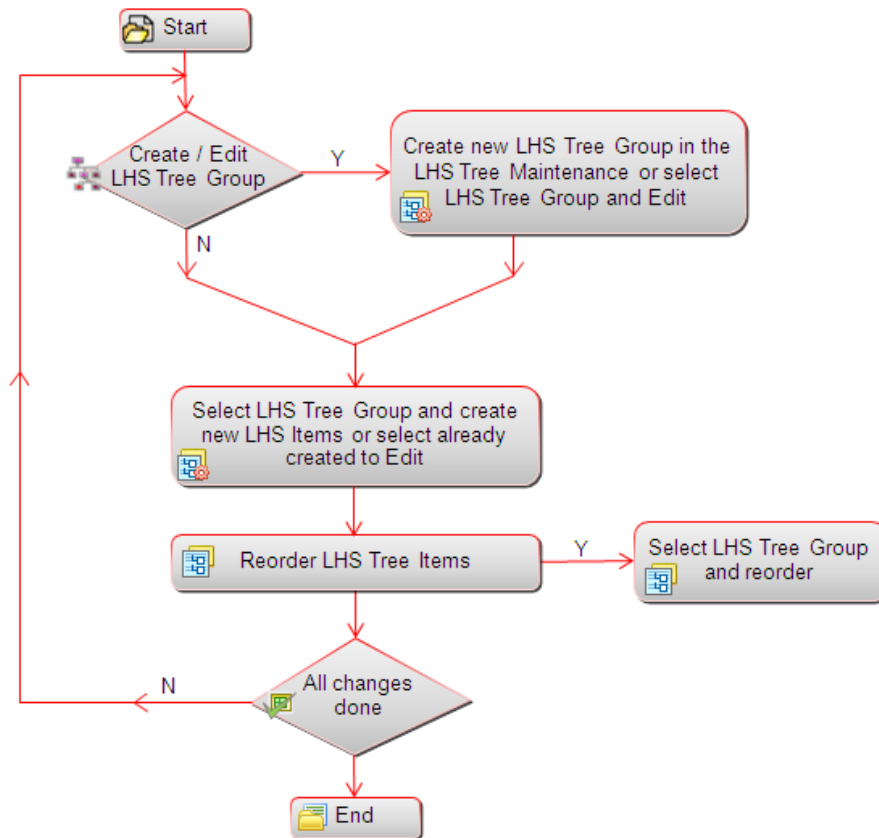


Figure 74. Flowchart of LHS Tree

### 3.5.3 How to create a LHS Tree

#### Steps to create a LHS Tree Group

1. From the LHS menu, expand **UI Configurations** and click **LHS Tree**. The *LHS Tree Maintenance* window is displayed.
2. Click **New** in the *LHS Tree Group* Toolbar. The *LHS Tree Maintenance* window is displayed.

Field Name	Description and Remarks
LHS Tree Group ID	Enter a unique ID for the LHS tree group. This is a mandatory field.



Field Name	Description and Remarks
LHS Tree Group Name	Enter the name of the LHS Tree Group. This is a mandatory field.

### Steps to create a LHS Tree Master

3. Select the LHS Tree Group to which you want to add LHS tree masters and click **New** in the *LHS Tree Master* toolbar. The *Custom LHS Tree Maintenance* window is displayed.

Field Name	Description and Remarks
LHS Tree Name	Enter the name of the LHS tree item. This is a mandatory field.
Picture Displayed	Select the picture that should be displayed with the LHS tree item.
Form ID	Enter the ID of the form that is to be called on clicking this LHS tree item. This is a mandatory field.
Is Form	Select <b>Layout Template</b> or <b>Form</b> from the drop-down list.

4. Click the **LHS Tree Status Mapping** tab.
5. Click **Map Status**.
6. Enter the name of the status of the mapping.
7. Click **Save**.

### 3.5.4 LHS Tree Maintenance

From the LHS menu, expand **UI Configurations** and click **LHS Tree**. The *LHS Tree Maintenance* window is displayed.

Action	Description
Search	<p>Search for a LHS Tree group by providing <b>LHS Tree Group ID</b> and <b>LHS Tree Group Name</b>, and then clicking <b>Search</b> in the <i>LHS Tree Group Master Search</i> toolbar.</p> <p>Similarly, select a LHS Tree group and provide LHS Tree Name, and then click <b>Search</b> in the <i>LHS Tree Master Search</i> toolbar to search for a LHS tree.</p>
Modify	<p>Select a LHS Tree group and click <b>Edit</b> in the <i>LHS Tree Group</i> toolbar to modify it.</p> <p>Select the LHS Tree group and LHS Tree, and then click <b>Edit</b> in the <i>LHS Tree Master</i> toolbar to modify the LHS tree.</p>

Action	Description
Delete	<p>Select a LHS Tree group and click <b>Delete</b> in the <i>LHS Tree Group</i> toolbar to delete it.</p> <p>Select the LHS Tree group and LHS Tree, and then click <b>Delete</b> in the <i>LHS Tree Master</i> toolbar to delete the LHS tree.</p>
Reorder	<p>Select a LHS Tree group and click Reorder in the <i>LHS Tree Group</i> toolbar to change the order in which the LHS tree should be displayed.</p>

## 4 Generate

### 4.1 Generate Menu

#### 4.1.1 Overview:

Generate Menu option is used to deploy the application menu created / modified using Forms Manager. On generating the menu, the menu definitions (all levels and sub levels for the application information domain) are deployed in the Information Domain after moving the previous version of the application menu / Information Domain specific menu to history tables along with the comments supplied for audit purpose. It also generates the dependent Tab Groups and LHS Trees that are being called from the menus.

#### 4.1.2 How to generate a Menu

##### Steps to generate a Menu

1. From the LHS menu, expand **Generate** and click **Menu**. The *Generate Menu* window is displayed.

The screenshot shows the 'Generate Menu' window in the Oracle FS AAI Forms Manager. The left sidebar has 'Generate' expanded, with 'Menu' selected. The main content area has a 'Generate Menu' title bar. Below it are search options and input fields for 'Menu ID', 'Menu Name', and 'Menu Level'. A table titled 'Menu Items' displays a list of menu items with columns: Menu ID, Application, Menu Name, Level, Order, Access Path, and Menu Mode. Below the table are input fields for 'Label' and 'Comments', and a 'Generate' button at the bottom.

Menu ID	Application	Menu Name	Level	Order	Access Path	Menu Mode
1115	QFS_OR	Home	0	0	Home	Development
1114	QFS_OR	Home	0	0	Home	Development
1500	QFS_OR	Home	0	1	Home	Development
1457608530009	QFS_OR	Inbox	0	1	Inbox	Development
1	QFS_OR	Inbox	0	1	Inbox	Development
1457671724580	QFS_OR	Inbox	0	1	Inbox	Development
1457936235051	QFS_OR	Insurance	0	1	Insurance	Development
1457844707608	QFS_OR	Landing page	0	1	Landing page	Development
145733685172	QFS_OR	CollaborationMenu	0	1	CollaborationMenu	Development
1441785559671	QFS_OR	j test menu 50	0	19	j test menu 50	Development

Figure 75. Generate Menu window

Field Name	Description and Remarks
Menu Id	Displays the ID corresponding to the menu.
Application	Displays the Application that will display the menu.
Menu Name	Displays the name of the menu.

Field Name	Description and Remarks
Level	Displays the level of the menu. It can be 0, 1, or 2.
Order	Displays the order of the menu. For menu of level 0, order means →Horizontal order and for level 1 and level 2, menu order means ↓Vertical order.
Access Path	Displays the path to access the menu.
Menu Mode	Displays the mode of the menu.
Label	Enter the label to identify the change. It is advisable to put appropriate label for tracking purpose.
Comments	Enter any comments you want to add while generating the menu. It is advisable to put appropriate comments for tracking purpose.

2. Click **Generate**.

While generating the menu, data in the work-in-progress table for all menu items along with tab groups and LHS trees will be moved to application tables. The same data will be moved to history tables with version number and comments to keep track of changes in the menu along with its dependent tab groups and LHS trees.

---

**NOTE:** Search for a menu by providing the **Menu Id**, **Menu Name**, and **Menu Level** in the Search Options Toolbar.

---

## 4.2 Generate Pages

### 4.2.1 Overview

Generate Page is used to deploy the pages created / modified using Forms Manager. You can generate and deploy a single page based on the need. On generating the page, the page definition (DB scripts and XML files) is deployed in the Information Domain after making a copy of the definition for audit/ tracking purposes. It also generates the corresponding Tab Groups and LHS trees that are being called from the page you are generating.

- XML files will be backed up in the YYYYMMDDHHMISS directory under the directory configured for copying the latest XML definition.
- New set of definitions for the page will be copied with the required privilege in the directory configured for copying the latest XML definition.
- DB scripts will be deployed in the AAI Config Schema after moving the older version to the history tables along with the comments entered during the *Generate Page* option.
- By default, the dependent Tab Groups and LHS Trees will be moved to the platform application tables.

## 4.2.2 How to generate a Page

### Steps to generate a Page

- From the LHS menu, expand **UI Configurations** and click **Pages**. The *Pages* window is displayed.
- Select the Page that you want to generate and deploy. The Page Maintenance window is displayed.

The screenshot shows the Oracle FS AAI Forms Manager interface. The left sidebar contains a tree view with 'Forms Manager' expanded, showing 'Administration', 'Group Objects', 'Form Events', 'Messages', 'Layout Upload', 'UI Configurations', 'Menu', 'Pages', 'Landing Page', 'Tabs', 'LHG Tree', 'Generate', and 'App Administration'. The main area is titled 'Page Maintenance' and shows the 'Page Definition' section. The 'Page Details' tab is active, displaying fields for Name, Code, Description, Module, SubModule, and Help. The 'Page Block/Objects' section shows a table with columns for Object Name, Object Code, Object Type, and Block Name. Below this are sections for 'Fields' (Non Action Fields, Action Fields, Advanced Fields), 'UI Validation Rules' (Processing Rules, Masking Rules), and 'Masking Details' (Masking Rules).

Figure 76. Page Maintenance window – Generate Page

Field Name	Description and Remarks
Form Code	Displays the unique identifier of the form.
Form Name	Displays the name of the form.
Label	Enter the label to identify the change. It's advisable to put appropriate label for tracking purpose.
Comments	Enter any comments you want to add while generating the form. It's advisable to put appropriate comments for tracking purpose.
Path	Displays the path where the form will be generated.

- Click **Generate** which is on the top right hand side of the page.

## 4.3 Generate Tabs

### 4.3.1 Overview

Generate Tab Group is used to deploy the tab groups and the tabs associated with the tab group, which are created / modified using Forms Manager. On generating the tab group, the tab group definitions are deployed in the Information Domain after moving the previous version of the tab group to history tables along with the comments supplied for audit purpose.

### 4.3.2 How to generate a Tab Group

#### Steps to generate a Tab Group

1. From the LHS menu, expand **Generate** and click **Tabs**. The *Generate Tab Group* window is displayed.

The screenshot shows the 'Generate Tab Group' window in the Oracle FS AAI Forms Manager. The window has a left-hand menu with options like Forms Manager, Administration, UI Configurations, Menu, Pages, Landing Page, Tabs, LHS Tree, Generate, and App Administration. The 'Generate' option is selected. The main area displays a table of tab groups. The table has three columns: Tab Group ID, Tab Group Name, and Tab Group Name. The table lists various tab groups, including Compliance Plan, Reference data management, Workflow Manager, and Business Continuity Risk. A 'Generate' button is at the bottom right.

Tab Group ID	Tab Group Name	Tab Group Name
11	Compliance Plan	DEFAULT
12	Compliance Plan	DEFAULT
13	Compliance Plan	DEFAULT
14	Compliance Plan	DEFAULT
15	Compliance Plan	DEFAULT
16	Compliance Plan	DEFAULT
20	Reference data management	DEFAULT
41	Compliance Plan	DEFAULT
42	Compliance Plan	DEFAULT
43	Compliance Plan	DEFAULT
44	Compliance Plan	DEFAULT
45	Compliance Plan	DEFAULT
46	Compliance Plan	DEFAULT
47	Compliance Plan	DEFAULT
50	Sox 404 Certification Details	DEFAULT
100	Workflow Manager	DEFAULT
102	Workflow Manager	DEFAULT
225	SOX 302 Certification	DEFAULT
500	Business Continuity Risk	DEFAULT
501	Business Continuity Risk	DEFAULT

Figure 77. Generate Tab Group window

Field Name	Description and Remarks
Tab Group ID	Displays the unique identifier of the tab group.
Tab Group Name	Displays the name of the tab group.
Application	Displays the name of the Application.

2. Select the checkbox corresponding to the Tab Group(s) you want to generate or select **Mark All** if you want to generate all tab groups.

3. Click **Generate**.

---

**NOTE:** Search for a tab group by providing the **Tab ID** and **Tab Name** in the *Search Options* toolbar.

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## 5 App Administration

### 5.1 Module

#### 5.1.1 Overview

This option is used to create Modules and Sub Modules for the Application. These Modules appear in the Menu and Page creation screens, based on the Application that is chosen.

#### 5.1.2 How to Create a Module

1. From the LHS menu, expand **App Administration** and click **Module**. The *Module* window is displayed.

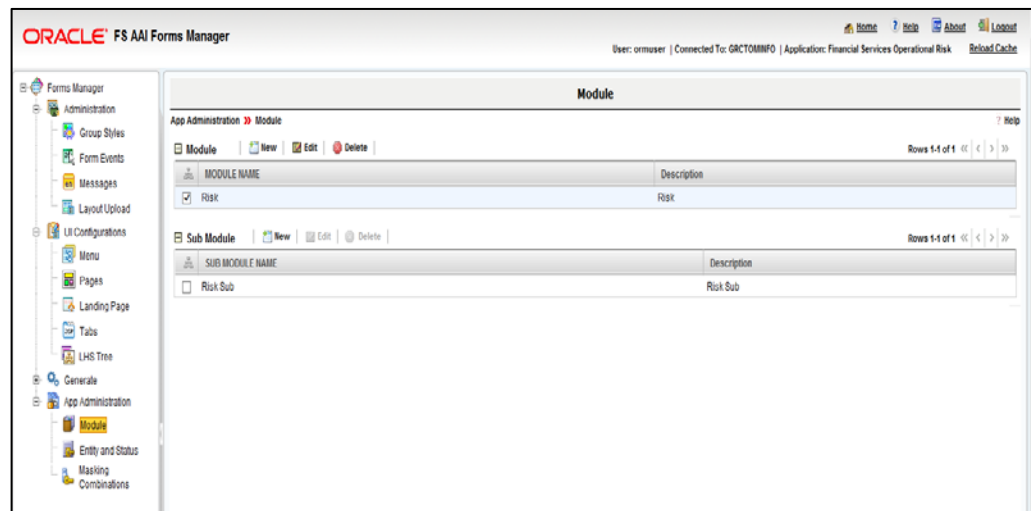


Figure 78. Module window

2. Click **New** in the *Module* Toolbar. The *Add New Module* window is displayed.

Figure 79. Add New Module window

Field Name	Description and Remarks
Fields marked with red asterisk (*) are mandatory.	
Module Name*	Enter the name of the Module.
Module Description*	Enter a valid description for the Module.



3. Click **Save**.

### 5.1.3 How to Create a Sub Module

1. From the *Module* window, select the Module to which you want to create a Sub Module. The *Sub Module* toolbar is displayed.
2. Click **New** in the *Sub Module* toolbar. The *Add New Sub Module* window is displayed.

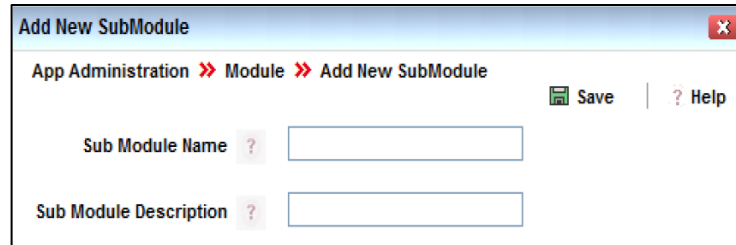


Figure 80. Add New Sub Module window

Field Name	Description and Remarks
Fields marked with red asterisk (*) are mandatory.	
Sub Module Name*	Enter the name of the Sub Module.
Sub Module Description*	Enter a valid description for the Sub Module.

3. Click **Save**.

### 5.1.4 Module Maintenance

From the LHS menu, expand **App Administration** and click **Modules**. The *Module* window is displayed.

---

**NOTE:** When you select a Module, the available Sub Modules will be displayed under *Sub Modules* grid.

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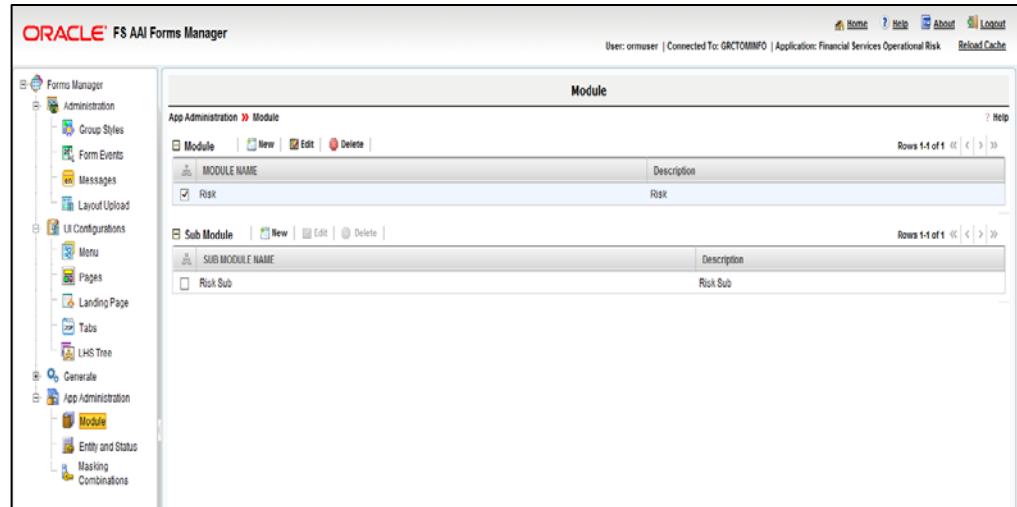


Figure 81. Module window

Action	Description
Modify	<p>Select a Module and click <b>Edit</b> in the <i>Module</i> toolbar to modify a module.</p> <p>Select the Module and Sub Module and then click <b>Edit</b> in the <i>Sub Modules</i> toolbar to modify a Sub Module.</p>
Delete	<p>Select a Module and click <b>Delete</b> in the <i>Module</i> toolbar to delete a module.</p> <p>Select the Module and Sub Module and then click <b>Delete</b> in the <i>Sub Modules</i> toolbar to delete a Sub Module.</p>

## 5.2 Entity and Status

### 5.2.1 Overview

This section is used to create and manage different Entities across the Application. These Entities are assigned with various Statuses that are also created for the Application. We can link the Entities to other Entities and also map them to various Roles based on the functionality is required for a particular module or sub module of the Application.

### 5.2.2 How to Create Application Entities

1. From the LHS menu, expand **App Administration** and click **Entity and Status**. The *Entity and Status* window is displayed.
2. Click **New** in the *Application Entities* toolbar. The *Add New Entity* window is displayed.

Figure 82. Add New Entity window

Field Name	Description and Remarks
Fields marked with red asterisk (*) are mandatory.	
Entity Name*	Enter the name of the Entity.
Entity Code*	The Code or ID for the Entity is automatically generated.
Entity Description*	Enter a valid description for the Entity.

3. Click **Save**.

### 5.2.3 How to Create Status

1. From the *Entity and Status* window, select the Entity to which you want to create a Status. The *Status* toolbar is displayed.
2. Click **New** in the *Status* toolbar. The *Add New Status* window is displayed.

Figure 83. Add New Status window

Field Name	Description and Remarks
Fields marked with red asterisk (*) are mandatory.	
Status ID*	Enter the ID of the Status.
Status Name*	Enter the Name of the Status.
Status Description*	Enter a valid description for the Status.

3. Click **Save**.

## 5.2.4 Mapping Status to an Entity

1. From the *Entity and Status* window, select an Entity whose Statuses have been created and for which you want to map the status.
2. Click **Map Status** in the *Application Entities* toolbar. The *Map Status* window is displayed.

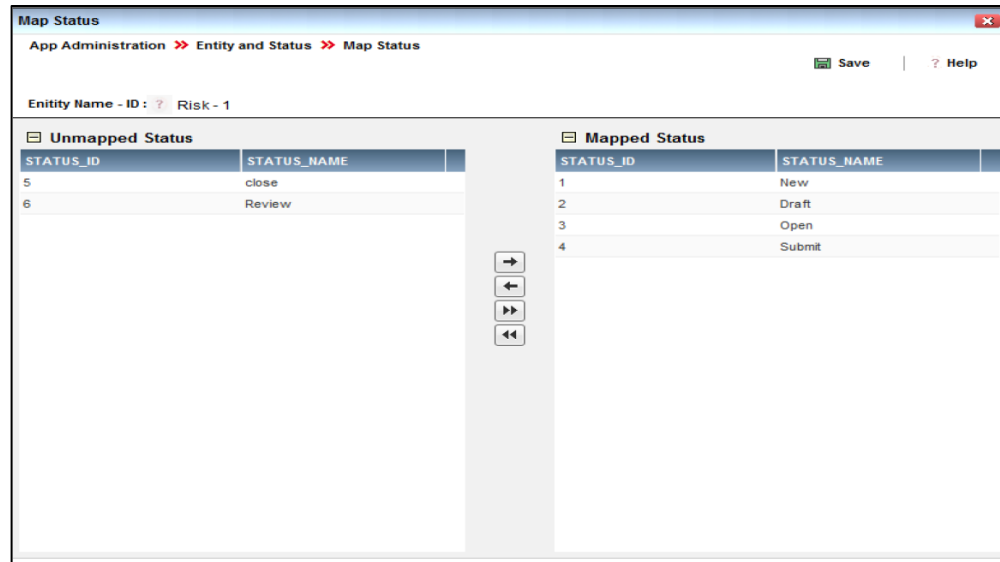


Figure 84. Map Status window

3. Move the Statuses from the **Unmapped Status** column to the **Mapped Status** column.
4. Click **Save**.

## 5.2.5 Linking Entities for an Application

1. From the *Entity and Status* window, select an Entity for which you want to link another Entity that is already created.
2. Click **Link Entities** in the *Application Entities* toolbar. The *Link Entities* window is displayed.

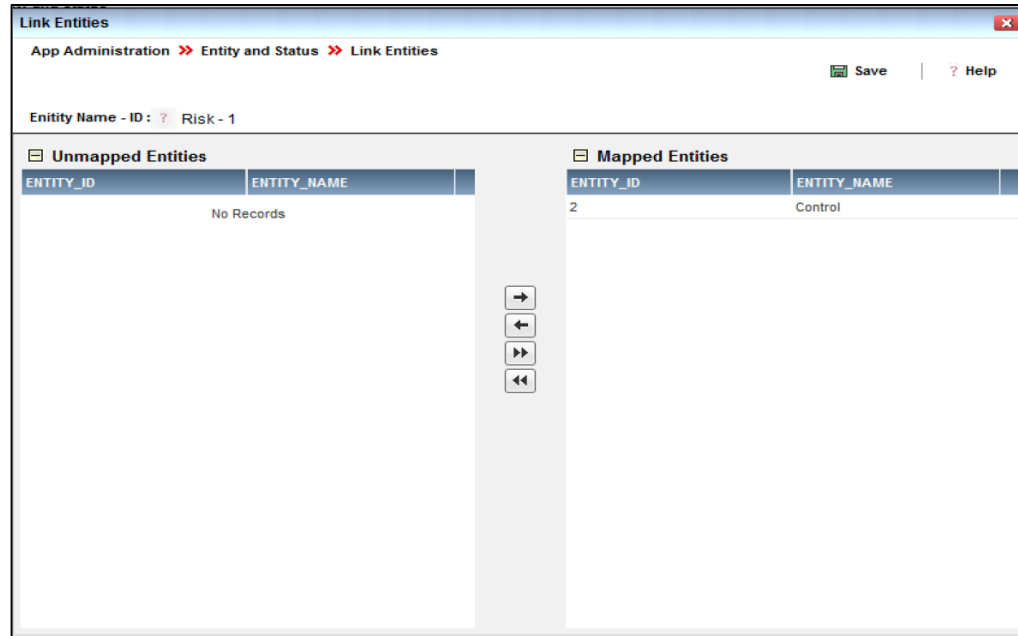


Figure 85. Link Entities window

3. Move the Entities from the **Unmapped Entities** column to the **Mapped Entities** column.
4. Click **Save**.

## 5.2.6 Mapping Roles to an Entity

1. From the *Entity and Status* window, select an Entity for which you want to map Roles that are previously seeded into the system.
2. Click **Map Roles** in the *Application Entities* toolbar. The *Map Role* window is displayed.

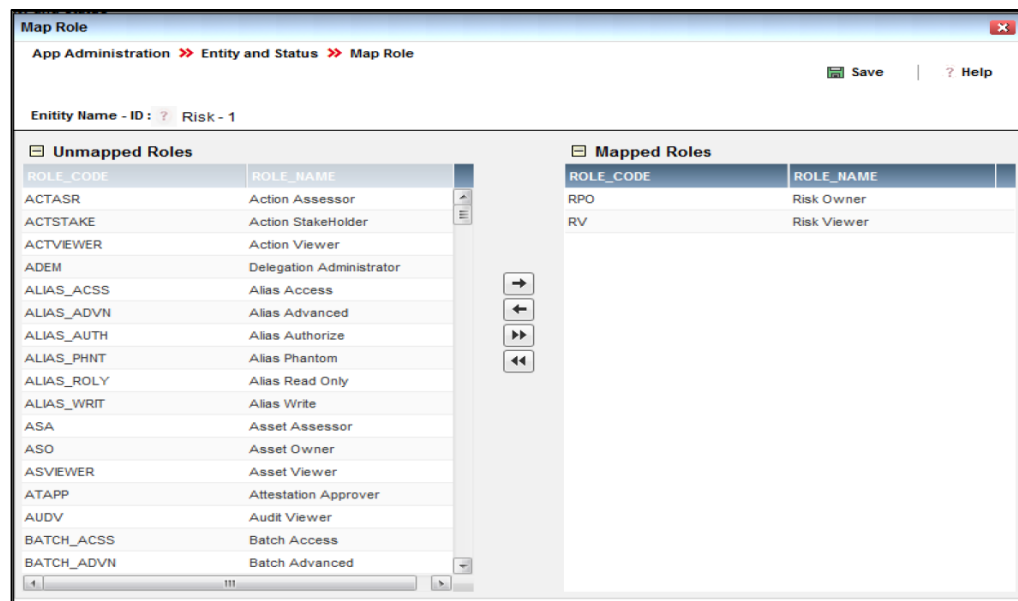


Figure 86. Map Role window

3. Move the Roles from the **Unmapped Roles** column to the **Mapped Roles** column.
4. Click **Save**.

## 5.2.7 Entity and Status Maintenance

From the LHS menu, expand **App Administration** and click **Entity and Status**. The *Entity and Status* window is displayed.

**NOTE:** When you select an Entity, the available Statuses will be displayed under *Status* grid.

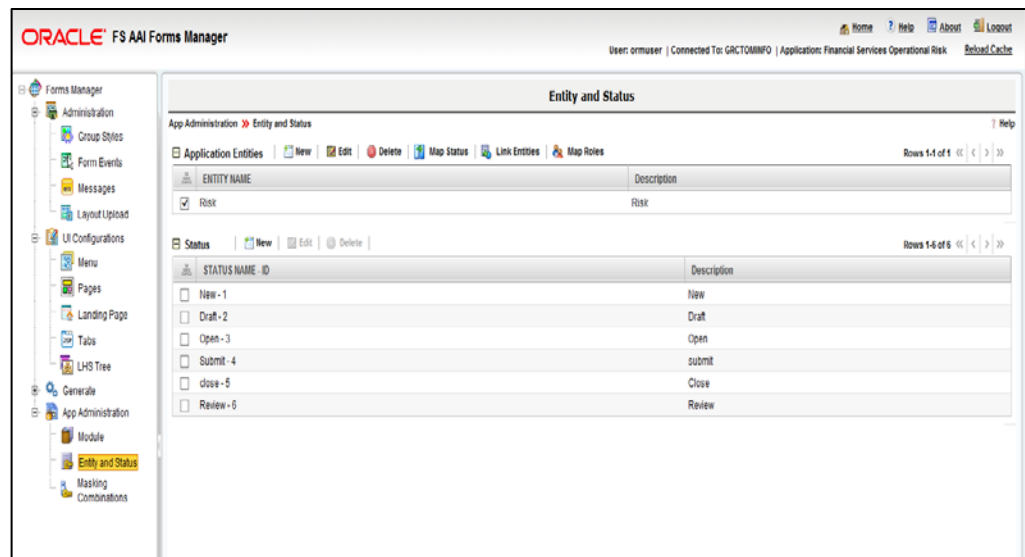


Figure 87. Entity and Status window

Action	Description
Modify	<p>Select an Entity and click <b>Edit</b> in the <i>Application Entities</i> toolbar to modify an Entity.</p> <p>Select the Entity and Status and then click <b>Edit</b> in the <i>Status</i> toolbar to modify a Status.</p>
Delete	<p>Select an Entity and click <b>Delete</b> in the <i>Application Entities</i> toolbar to delete an Entity.</p> <p>Select the Entity and Status and then click <b>Delete</b> in the <i>Status</i> toolbar to delete a Status.</p>

## 5.3 Masking Combinations

### 5.3.1 Overview

This section allows you to create different combinations of masking for the Entities in an Application. These combinations can be applied over different Roles and linked Entities also.

### 5.3.2 How to Create Masking Combinations

1. From the LHS menu, expand **App Administration** and click **Masking Combinations**. The *Masking Combinations* window is displayed.
2. Select the **Entity** from the drop-down list. This list is populated based on the entities that were previously created. For more information, see [How to Create Application Entities](#).
3. Click **New** in the *Masking Combinations* toolbar. The *Add Masking Rule* window is displayed.

Figure 88. Add Masking Rule window

Field Name	Description and Remarks
Fields marked with red asterisk (*) are mandatory.	
Description*	Enter a valid description for the Masking Rule, which will describe what the Masking Rule is about.
Entity*	This field is automatically populated. This is the Entity for which you are creating Masking combinations.
Entity Status*	Select the Status from the drop-down list for the Entity
Linked Entity	Select a Linked Entity from the drop-down list if the masking rules have to be applied to it.
Linked Entity Status	Select the Status from the drop-down list for the Linked Entity.

### 5.3.3 Masking Combinations Maintenance

From the LHS menu, expand **App Administration** and click **Masking Combinations**. The *Masking Combinations* window is displayed.

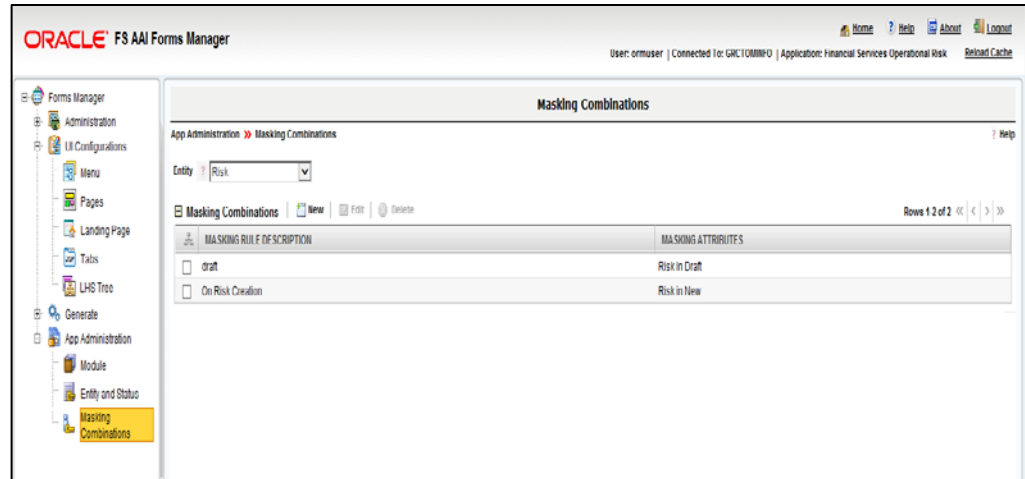


Figure 89. Masking Combinations window

Action	Description
Modify	Select the Entity and Masking Combination and then click <b>Edit</b> in the <i>Masking Combinations</i> toolbar to modify a Masking Combination.
Delete	Select the Entity and Masking Combination and then click <b>Delete</b> in the <i>Masking Combinations</i> toolbar to delete a Masking Combination.



## 6 Administration

### 6.1 Group Styles

#### 6.1.1 Overview

A Group Style is a set of styles defined for every element of a container or control. These are the styles which are predefined and packaged along with the Forms Manager.

A group style has pre-defined attributes like background image, border properties (border style, width, and color), font properties (font size, color, weight, style), and so on. These group styles are then associated to the cssclass of the container/control. The stylesheet.css file should have entries for all the group styles available in the Group Style Maintenance window.

#### 6.1.2 How to Create a Group Style

This option allows you to register a new group style which is defined/ available in the stylesheet. Once it is registered, you can use the group styles while you define a container.

##### Steps to create a Group Style

1. From the LHS menu, expand **Administration** and click **Group Styles**. The *Group Style Maintenance* window is displayed.
2. Click **New** in the *Group Styles* toolbar.

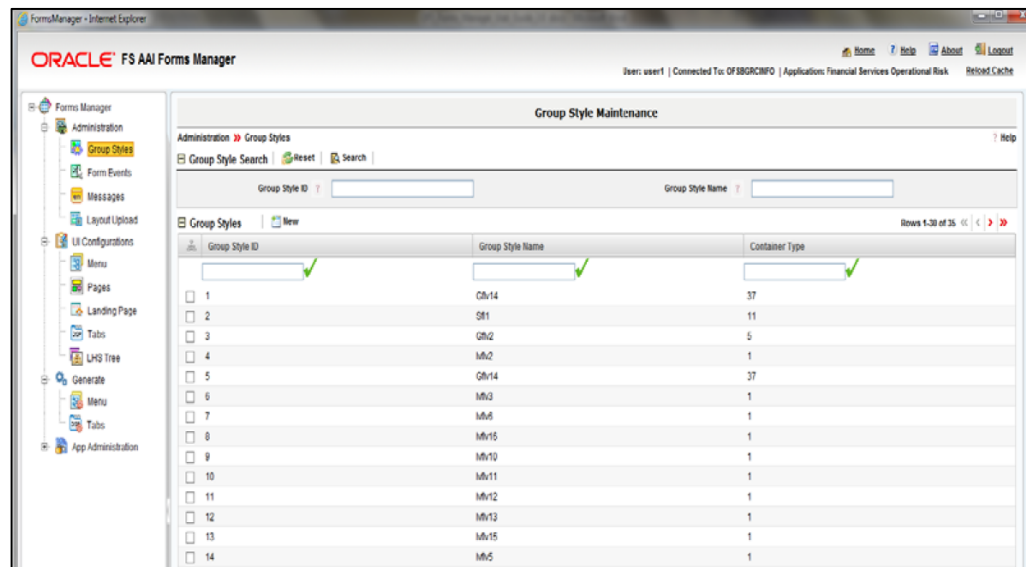


Figure 90. Group Style Maintenance window

Field Name	Description and Remarks
Group Style ID	Enter a unique ID for the group style. It is advisable to put unique ID. However a validation has been done which will restrict the user to save duplicate values.

Field Name	Description and Remarks
Group Style Name	Enter the name of the group style.
Container Type	Enter the type of the container.

3. Click **Save**.

**NOTE:** Search for a Group Style by providing the **Group Style ID** and **Group Style Name** in the *Group Style Search* toolbar.

### 6.1.3 Sample Group Styles

Following figures display different group styles present in the Application Forms. These are the group styles shipped with the standard product.

#### 6.1.3.1 Grid Container (Type = 5)

##### Grid Group Style: Gflv2

Description- Grid Container without border.

Workflow History (9) Difference							1/2 << < > >>
	Last Modified	Last Modified By	Status	Comments	Action	Comments	
<input type="checkbox"/>	21-11-2011 19:57:08	ORMUSER	Draft		Updated		
<input type="checkbox"/>	21-11-2011 19:57:13	ORMUSER	Draft		Updated		
<input type="checkbox"/>	21-11-2011 19:57:24	ORMUSER	Draft		Updated		
<input type="checkbox"/>	21-11-2011 19:59:19	ORMUSER	Draft		Updated		
<input type="checkbox"/>	21-11-2011 19:59:22	ORMUSER	Draft		Updated		

##### Grid Group Style: Gflv4

Description- Grid Container without Border and Toolbar.

Additional XML Configuration: Header should not be present. **Note:** Transpose should not be configured in menu, since we cannot return back to Grid view when we do a transpose.

	ID	Name	Parent Process	Owner	Attestation	Last Attested	Last Assessment Rating	Last Assessment	Status	Last Modified
<input type="checkbox"/>	81307004	9789	dfgdfg	Process Owner	No				Open	30-Jan-2013
<input type="checkbox"/>	81312744	fdgdfgdfg	12123131	Process Creator	No				Open	30-Jan-2013
<input type="checkbox"/>	81328634	dfgdfgdfg	Entering 'BE as of Date' is ... (3)	Tom Harley	No				Draft	29-Jan-2013
<input type="checkbox"/>	81328634	dfgdfgdfg	Entering 'BE as of Date' is ... (3)	Tom Harley	No				Draft	29-Jan-2013
<input type="checkbox"/>	81312664	12123131		Process Creator	No		Medium	31-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	81313341	Entering 'BE as of Date' is ... (3)	12123131	Tom Harley	No		Medium	24-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	81312859	dfgdfg	fdgdfgdfg	Process Owner	No		Medium	22-Jan-2013	Open	22-Jan-2013
<input type="checkbox"/>	81312511	1234		Process Creator	Yes				Open	22-Jan-2013
<input type="checkbox"/>	81307013	1209		Tom Harley	No				Open	21-Jan-2013
<input type="checkbox"/>	81295216	22		Process Owner	No				Open	16-Jan-2013
<input type="checkbox"/>	81298817	98989		Process Owner	No				Open	11-Jan-2013
<input type="checkbox"/>	81298806	fxz088		Process Owner	No				Draft	11-Jan-2013
<input type="checkbox"/>	81254389	ddddd		Workflow Business User	Yes	10-Jan-2013			Open	09-Jan-2013
<input type="checkbox"/>	81262125	bvxcbvcb		Tom Harley	No				Open	02-Jan-2013
<input type="checkbox"/>	81260132	3252423342sddsdsdsds		Central admin	No				Open	31-Dec-2012
<input type="checkbox"/>	81260091	dhhghgh		Process Owner	No				Open	31-Dec-2012
<input type="checkbox"/>	81249799	325		Tom Harley	No				Open	31-Dec-2012
<input type="checkbox"/>	81259779	wer		Tom Harley	No				Open	31-Dec-2012

### Grid Group Style: Gflv5

Description- Grid Container without Border, Toolbar, and Header.

Additional XML Configuration: Header should not be present.

<input type="checkbox"/>	81307004	9789	dfgdfg	Process Owner	No			Open	30-Jan-2013
<input type="checkbox"/>	81312744	fdgdfgdfg	12123131	Process Creator	No			Open	30-Jan-2013
<input type="checkbox"/>	81328634	dfgdfgdfg	Entering 'BE as of Date' is ...	Tom Harley	No			Draft	29-Jan-2013
<input type="checkbox"/>	81328634	dfgdfgdfg	Entering 'BE as of Date' is ...	Tom Harley	No			Draft	29-Jan-2013
<input type="checkbox"/>	81312864	12123131		Process Creator	No	Medium	31-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	81313341	Entering 'BE as of Date' is ...	12123131	Tom Harley	No	Medium	24-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	81312858	dfgdfg	fdgdfgdfg	Process Owner	No	Medium	22-Jan-2013	Open	22-Jan-2013
<input type="checkbox"/>	81312511	1234		Process Creator	Yes			Open	22-Jan-2013
<input type="checkbox"/>	81307013	1209		Tom Harley	No			Open	21-Jan-2013
<input type="checkbox"/>	81285218	22		Process Owner	No			Open	16-Jan-2013
<input type="checkbox"/>	81280817	98989		Process Owner	No			Open	11-Jan-2013
<input type="checkbox"/>	81280808	hcv888		Process Owner	No			Draft	11-Jan-2013
<input type="checkbox"/>	81254389	ddddd		Workflow Business User	Yes	10-Jan-2013		Open	09-Jan-2013
<input type="checkbox"/>	81262125	bxcbvcb		Tom Harley	No			Open	02-Jan-2013
<input type="checkbox"/>	81260132	3252423342sddsdsdsds		Central admin	No			Open	31-Dec-2012
<input type="checkbox"/>	81260091	dhtghfgh		Process Owner	No			Open	31-Dec-2012
<input type="checkbox"/>	81258799	325		Tom Harley	No			Open	31-Dec-2012
<input type="checkbox"/>	81258779	wer		Tom Harley	No			Open	31-Dec-2012

### Grid Group Style: Gflv6

Description- Grid Container with Border and toolbar.

Delegation (4)   Create New   Edit   View   Revoke   Delete   Export							
<input type="checkbox"/>	Delegator	Delegate	Start Date	End Date	Last Modified	Created By	Status
<input type="checkbox"/>	grouser	Admin	16-Oct-2012	24-Oct-2012	09-Oct-2012	grouser	Draft
<input type="checkbox"/>	grouser	Akank	09-Oct-2012	25-Oct-2012	09-Oct-2012	grouser	Draft
<input type="checkbox"/>	grouser	Akanksha	09-Oct-2012	31-Oct-2012	09-Oct-2012	grouser	Draft
<input type="checkbox"/>	grouser	Action Assessor	11-Sep-2012	13-Sep-2012	04-Sep-2012	grouser	Draft

### Grid Group Style: Gflv7

Description- Grid Container with toolbar, but no border and header.

Processes (18)									
Create Process   Delete Process   Assess Process   Attest Process   Export   Expand All									
<input type="checkbox"/>	81307004	9789	dfgdfg	Process Owner	No			Open	30-Jan-2013
<input type="checkbox"/>	81312744	fdgdfgdfg	12123131	Process Creator	No			Open	30-Jan-2013
<input type="checkbox"/>	81328634	dfgdfgdfg	Entering 'BE as of Date' is ...	Tom Harley	No			Draft	29-Jan-2013
<input type="checkbox"/>	81328634	dfgdfgdfg	Entering 'BE as of Date' is ...	Tom Harley	No			Draft	29-Jan-2013
<input type="checkbox"/>	81312864	12123131		Process Creator	No	Medium	31-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	81313341	Entering 'BE as of Date' is ...	12123131	Tom Harley	No	Medium	24-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	81312858	dfgdfg	fdgdfgdfg	Process Owner	No	Medium	22-Jan-2013	Open	22-Jan-2013
<input type="checkbox"/>	81312511	1234		Process Creator	Yes			Open	22-Jan-2013
<input type="checkbox"/>	81307013	1209		Tom Harley	No			Open	21-Jan-2013
<input type="checkbox"/>	81285218	22		Process Owner	No			Open	16-Jan-2013
<input type="checkbox"/>	81280817	98989		Process Owner	No			Open	11-Jan-2013
<input type="checkbox"/>	81280808	hcv888		Process Owner	No			Draft	11-Jan-2013
<input type="checkbox"/>	81254389	ddddd		Workflow Business User	Yes	10-Jan-2013		Open	09-Jan-2013
<input type="checkbox"/>	81262125	bxcbvcb		Tom Harley	No			Open	02-Jan-2013
<input type="checkbox"/>	81260132	3252423342sddsdsdsds		Central admin	No			Open	31-Dec-2012
<input type="checkbox"/>	81260091	dhtghfgh		Process Owner	No			Open	31-Dec-2012
<input type="checkbox"/>	81258799	325		Tom Harley	No			Open	31-Dec-2012
<input type="checkbox"/>	81258779	wer		Tom Harley	No			Open	31-Dec-2012

### Grid Group Style: Gflv8

Description- Grid Container with Border, but no Toolbar.

Additional XML Configuration: Header should not be present. **Note:** Transpose should not be configured in menu, since we cannot return back to Grid view when we do a transpose

	ID	Name	Parent Process	Owner	Attestation	Last Attested	Last Assessment Rating	Last Assessment	Status	Last Modified
<input type="checkbox"/>	81307004	9789	dfgdfg	Process Owner	No				Open	30-Jan-2013
<input type="checkbox"/>	81312744	fdgdfgdfg	12123131	Process Creator	No				Open	30-Jan-2013
<input type="checkbox"/>	81328634	dfgdfgdfg	Entering 'BE as of Date' is ...	Tom Harley	No				Draft	29-Jan-2013
<input type="checkbox"/>	81328634	dfgdfgdfg	Entering 'BE as of Date' is ...	Tom Harley	No				Draft	29-Jan-2013
<input type="checkbox"/>	81312684	12123131		Process Creator	No		Medium	31-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	81313341	Entering 'BE as of Date' is ...	12123131	Tom Harley	No		Medium	24-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	81312859	dfgdfg	fdgdfgdfg	Process Owner	No		Medium	22-Jan-2013	Open	22-Jan-2013
<input type="checkbox"/>	81312511	1234		Process Creator	Yes				Open	22-Jan-2013
<input type="checkbox"/>	81307013	1209		Tom Harley	No				Open	21-Jan-2013
<input type="checkbox"/>	81295216	22		Process Owner	No				Open	16-Jan-2013
<input type="checkbox"/>	81260817	98989		Process Owner	No				Open	11-Jan-2013
<input type="checkbox"/>	81260608	fcz/888		Process Owner	No				Draft	11-Jan-2013
<input type="checkbox"/>	81254389	dddddd		Workflow Business User	Yes	10-Jan-2013			Open	09-Jan-2013
<input type="checkbox"/>	81262125	bvxcvcb		Tom Harley	No				Open	02-Jan-2013
<input type="checkbox"/>	81260132	3252423342sddsdsdsds		Central admin	No				Open	31-Dec-2012
<input type="checkbox"/>	81260091	dhtghgh		Process Owner	No				Open	31-Dec-2012
<input type="checkbox"/>	81259799	325		Tom Harley	No				Open	31-Dec-2012
<input type="checkbox"/>	81259779	wer		Tom Harley	No				Open	31-Dec-2012

### Grid Group Style: Gflv9

Description- Grid Container with Border, but no Toolbar and Header.

Additional XML Configuration: Header should not be present.

<input type="checkbox"/>	81307004	9789	dfgdfg	Process Owner	No				Open	30-Jan-2013
<input type="checkbox"/>	81312744	fdgdfgdfg	12123131	Process Creator	No				Open	30-Jan-2013
<input type="checkbox"/>	81328634	dfgdfgdfg	Entering 'BE as of Date' is ...	Tom Harley	No				Draft	29-Jan-2013
<input type="checkbox"/>	81328634	dfgdfgdfg	Entering 'BE as of Date' is ...	Tom Harley	No				Draft	29-Jan-2013
<input type="checkbox"/>	81312684	12123131		Process Creator	No		Medium	31-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	81313341	Entering 'BE as of Date' is ...	12123131	Tom Harley	No		Medium	24-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	81312859	dfgdfg	fdgdfgdfg	Process Owner	No		Medium	22-Jan-2013	Open	22-Jan-2013
<input type="checkbox"/>	81312511	1234		Process Creator	Yes				Open	22-Jan-2013
<input type="checkbox"/>	81307013	1209		Tom Harley	No				Open	21-Jan-2013
<input type="checkbox"/>	81295216	22		Process Owner	No				Open	16-Jan-2013
<input type="checkbox"/>	81260817	98989		Process Owner	No				Open	11-Jan-2013
<input type="checkbox"/>	81260608	fcz/888		Process Owner	No				Draft	11-Jan-2013
<input type="checkbox"/>	81254389	dddddd		Workflow Business User	Yes	10-Jan-2013			Open	09-Jan-2013
<input type="checkbox"/>	81262125	bvxcvcb		Tom Harley	No				Open	02-Jan-2013
<input type="checkbox"/>	81260132	3252423342sddsdsdsds		Central admin	No				Open	31-Dec-2012
<input type="checkbox"/>	81260091	dhtghgh		Process Owner	No				Open	31-Dec-2012
<input type="checkbox"/>	81259799	325		Tom Harley	No				Open	31-Dec-2012
<input type="checkbox"/>	81259779	wer		Tom Harley	No				Open	31-Dec-2012

### Grid Group Style: Gflv10

Description- Grid Container with Border, Toolbar, and Header.

Additional XML Configuration: Header should not be present.

Processes (18)									
<div>  Create Process               Delete Process               Assess Process               Attest Process               Export               Expand All         </div>									
<input type="checkbox"/>	<a href="#">81307004</a>	9789	dfgdfg	Process Owner	No			Open	30-Jan-2013
<input type="checkbox"/>	<a href="#">81312744</a>	fdgdfgdfg	12123131	Process Creator	No			Open	30-Jan-2013
<input type="checkbox"/>	<a href="#">81328634</a>	dfgdfgdfg	Entering 'BE as of Date' is ...	Tom Harley	No			Draft	29-Jan-2013
<input type="checkbox"/>	<a href="#">81328634</a>	dfgdfgdfg	Entering 'BE as of Date' is ...	Tom Harley	No			Draft	29-Jan-2013
<input type="checkbox"/>	<a href="#">81312664</a>	12123131		Process Creator	No	Medium	31-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	<a href="#">81313341</a>	Entering 'BE as of Date' is ...	12123131	Tom Harley	No	Medium	24-Jan-2013	Open	24-Jan-2013
<input type="checkbox"/>	<a href="#">81312859</a>	dfgdfg	fdgdfgdfg	Process Owner	No	Medium	22-Jan-2013	Open	22-Jan-2013
<input type="checkbox"/>	<a href="#">81312511</a>	1234		Process Creator	Yes			Open	22-Jan-2013
<input type="checkbox"/>	<a href="#">81307013</a>	1209		Tom Harley	No			Open	21-Jan-2013
<input type="checkbox"/>	<a href="#">81295216</a>	22		Process Owner	No			Open	16-Jan-2013
<input type="checkbox"/>	<a href="#">81290817</a>	98989		Process Owner	No			Open	11-Jan-2013
<input type="checkbox"/>	<a href="#">81280008</a>	fcz088		Process Owner	No			Draft	11-Jan-2013
<input type="checkbox"/>	<a href="#">81254389</a>	dddddd		Workflow Business User	Yes		10-Jan-2013	Open	09-Jan-2013
<input type="checkbox"/>	<a href="#">81252125</a>	bwcbvcb		Tom Harley	No			Open	02-Jan-2013
<input type="checkbox"/>	<a href="#">81260132</a>	3252423342sdddsdsdsds		Central admin	No			Open	31-Dec-2012
<input type="checkbox"/>	<a href="#">81260091</a>	dhlghlgh		Process Owner	No			Open	31-Dec-2012
<input type="checkbox"/>	<a href="#">81259799</a>	325		Tom Harley	No			Open	31-Dec-2012
<input type="checkbox"/>	<a href="#">81259779</a>	wer		Tom Harley	No			Open	31-Dec-2012

### Grid Group Style: Gflv11

Description- Grid Container without any styling & Toolbar.

Additional XML Configuration: Header should not be present.

ID	Name	Risk Event Type	Risk Category	Status	Last Modified
<input type="checkbox"/> <a href="#">81622698</a>	Verify Locale Master Entries	Business Disruption and System Failures	b	Open	07-Feb-2013
<input type="checkbox"/> <a href="#">81622669</a>	Submit should move the Record to OPEN	Business Disruption and System Failures	b	Closed	07-Feb-2013
<input type="checkbox"/> <a href="#">81622419</a>	INSERT INTO HSFACT_RISK_LIBRARY (V_C...	Business Disruption and System Failures	b	Open	07-Feb-2013
<input type="checkbox"/> <a href="#">81622361</a>	INSERT INTO HSFACT_RISK_LIBRARY (V_C...	Business Disruption and System Failures	b	Open	07-Feb-2013
<input type="checkbox"/> <a href="#">81621953</a>	Quick Check on Risk Library	Business Disruption and System Failures	b	Open	07-Feb-2013
<input type="checkbox"/> <a href="#">81620857</a>	Verifying the bugs fixed on Feb 6th and F...	Business Disruption and System Failures	b	Draft	07-Feb-2013
<input type="checkbox"/> <a href="#">81620770</a>	Verifying the bugs fixed on Feb 6th and F...	Business Disruption and System Failures	b	Draft	07-Feb-2013
<input type="checkbox"/> <a href="#">81620704</a>	Verifying the bugs fixed on Feb 6th and Feb 7th	Clients, Products and Business Practices	Credit Cards	Open	07-Feb-2013
<input type="checkbox"/> <a href="#">81619664</a>	ljlkj	Clients, Products and Business Practices		Open	07-Feb-2013
<input type="checkbox"/> <a href="#">81619652</a>	jkjkjk	Business Disruption and System Failures	Credit Cards	Open	06-Feb-2013
<input type="checkbox"/> <a href="#">81619640</a>	koko	Business Disruption and System Failures	b	Open	06-Feb-2013
<input type="checkbox"/> <a href="#">81619617</a>	kkk	Business Disruption and System Failures	Credit Cards	Open	06-Feb-2013
<input type="checkbox"/> <a href="#">81619468</a>	feb6	Business Disruption and System Failures	Credit Cards	Open	06-Feb-2013
<input type="checkbox"/> <a href="#">81353837</a>	Risk Test	Clients, Products and Business Practices	Platinum Cards	Open	06-Feb-2013
<input type="checkbox"/> <a href="#">81340943</a>	dfss	Business Disruption and System Failures	Credit Cards	Open	05-Feb-2013
<input type="checkbox"/> <a href="#">81346543</a>	Creating Risk Library on Feb 4thCreating ...	Internal Fraud	Platinum Cards	Closed	04-Feb-2013
<input type="checkbox"/> <a href="#">81346524</a>	Creating Risk Library on Feb 4th	Business Disruption and System Failures	Credit Cards	Closed	04-Feb-2013
<input type="checkbox"/> <a href="#">81342253</a>	asdasd	Clients, Products and Business Practices		Closed	31-Jan-2013
<input type="checkbox"/> <a href="#">81342246</a>	asdasdasdad	Clients, Products and Business Practices		Closed	31-Jan-2013

### 6.1.3.2 Normal Container (Type = 1)

#### Label Value Group Style: Ivflv2

Description- Header with Underline

Views | Clear | Go

ID

Name

Predictive / Lag

Type

Enterprise KI ☐ Yes ☐ No

Status

Last Modified(>=)

Last Modified(<=)

#### Label Value Group Style: Ivflv15

Description- Header without Underline

Search | Views | Clear | Go

ID

Name

Risk Event Type

SOX ☐ Yes ☐ No

Status

Last Modified From

Last Modified To



#### Label Value Group Style: Ivflv4

Description- Rounded border with grey header.

Additional Configuration: BORDERREQUIRED="Y"

The screenshot shows a form titled "Ivflv4" with a grey header bar containing "Save" and "Cancel" buttons. The form contains the following fields:

- Name\*: 9789
- ID: 81307004
- Description: 9789
- Objectives: 789
- Critical Success Factors: 879
- Critical: ☒ Yes ☐ No
- Reason for Criticality: 123123
- Attestation in Scope: ☐ Yes ☒ No
- Owner: Process Owner
- Parent Process: dfgdfg

#### Label Value Group Style: Ivflv7

Description- Single shade Grey container with Row lines.

In edit mode, all Input types in the container will not have borders.

Additional Configuration: BORDERREQUIRED="N"

The screenshot shows a form titled "Insurance Policy Details" with a grey header bar. The form contains a table of fields:

Name*	ID
Description	
Type*	Start Date*
Expiry Date*	Date of Inception*
Renewal Date	CCY*
Expiry Reminder Days*	Premium Amount*
Cover Amount*	Max Single Claim Amount
Deductible	Reference Number
Issuer	Broker
Probability of Payout (%)	

#### Label Value Group Style: Ivflv10

Description- Double shade Grey container with Row lines.

In edit mode, all Input types in the container will not have borders.

Additional Configuration: BORDERREQUIRED="N"

Insurance Policy Details			
Name*		ID	8588
Description			
Type*		Start Date*	
Expiry Date*		Date of Inception*	
Renewal Date		CCY*	
Expiry Reminder Days*		Premium Amount*	
Cover Amount*		Max Single Claim Amount	
Deductible		Reference Number	
Issuer		Broker	
Probability of Payout (%)			

### Label Value Group Style: Ivflv11

Description- Rounded border & yellow background.

Additional Configuration: BORDERREQUIRED="Y"

Save | Cancel

Name*	9789	ID	81307004
Description	9789		
Objectives	789		
Critical Success Factors	879		
Critical	<input checked="" type="radio"/> Yes <input type="radio"/> No	Attestation in Scope	<input type="radio"/> Yes <input checked="" type="radio"/> No
Reason for Criticality	123123		
Owner*	Process Owner	Parent Process*	dfgdfg

### Label Value Group Style: Ivflv12

Description- Rounded border & white background.

Additional Configuration: BORDERREQUIRED="Y"

Save | Cancel

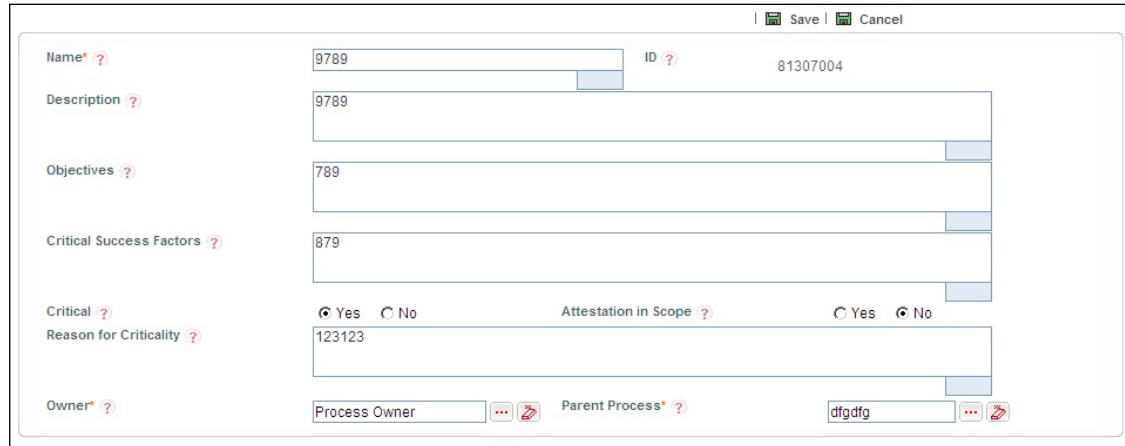
Name*	9789	ID	81307004
Description	9789		
Objectives	789		
Critical Success Factors	879		
Critical	<input checked="" type="radio"/> Yes <input type="radio"/> No	Attestation in Scope	<input type="radio"/> Yes <input checked="" type="radio"/> No
Reason for Criticality	123123		
Owner*	Process Owner	Parent Process*	dfgdfg



### Label Value Group Style: lvflv13

Description- Rounded border & grey background.

Additional Configuration: BORDERREQUIRED="Y"



A form with a rounded border and grey background. It contains several input fields and radio buttons. The fields are labeled: Name\* (?), ID (?), Description (?), Objectives (?), Critical Success Factors (?), Critical (?), Reason for Criticality (?), Owner\* (?), and Parent Process\* (?). The values entered are: Name: 9789, ID: 81307004, Description: 9789, Objectives: 789, Critical Success Factors: 879, Critical: Yes, Reason for Criticality: 123123, Owner: Process Owner, and Parent Process: dfgdfg. There are also radio buttons for 'Attestation in Scope' with 'Yes' and 'No' options.

### 6.1.3.3 Search Container (Type 11)

#### Search Group Style: Sfl1



A search form with a grey background and a header with 'Search | Reset'. It contains several input fields and radio buttons. The fields are labeled: ID (?), Name (?), Predictive / Lag (?), Last Modified(>=) (?), Last Modified(<=) (?), Status (?), Type (?), Enterprise ID (?), and Risk Event Type (?). The values entered are: ID: , Name: , Predictive / Lag: , Last Modified(>=): , Last Modified(<=): , Status: , Type: , Enterprise ID: , and Risk Event Type: . There are also radio buttons for 'Enterprise ID' with 'Yes' and 'No' options. A red box highlights the 'No' radio button, and a red arrow points to it with the text 'Radio control'.

#### Search Group Style: Sfl2

Description- Grey background with Border & Header with Underline.

Additional Configuration: BORDERREQUIRED="N"



A search form with a grey background and a header with 'Search | Views | Clear | Go'. It contains several input fields and radio buttons. The fields are labeled: ID (?), Name (?), Risk Event Type (?), SOX (?), Last Modified From (?), Last Modified To (?), Status (?), and Risk Event Type (?). The values entered are: ID: , Name: , Risk Event Type: , SOX: Yes, Last Modified From: , Last Modified To: , Status: , and Risk Event Type: . There are also radio buttons for 'SOX' with 'Yes' and 'No' options.

#### Search Group Style: Sfl3

Description- Blue background with Border & Header with Underline.

Additional Configuration: BORDERREQUIRED="N"



A search form with a blue background and a header with 'Search | Views | Clear | Go'. It contains several input fields and radio buttons. The fields are labeled: ID (?), Name (?), Risk Event Type (?), SOX (?), Last Modified From (?), Last Modified To (?), Status (?), and Risk Event Type (?). The values entered are: ID: , Name: , Risk Event Type: , SOX: Yes, Last Modified From: , Last Modified To: , Status: , and Risk Event Type: . There are also radio buttons for 'SOX' with 'Yes' and 'No' options.

#### Search Group Style: Sfl4

Description- Yellow background with Border & Header with Underline.

Additional Configuration: BORDERREQUIRED="N"

Search | Views | Clear | Go

ID ?  Name ?  Risk Event Type ?  ...

SOX ? ☐ Yes ☐ No

Status ?  Last Modified From ?  Last Modified To ?

### Search Group Style: Sfl5

Description- White background with Border & Header with Underline.

Additional Configuration: BORDERREQUIRED="N"

Edit

Name\* 9789 ID 81307004

Description 9789

Objectives 789

Critical Success Factors 879

Critical Yes Attestation in Scope No

Reason for Criticality 123123

Owner\* Process Owner Parent Process\* dfgdfg

### Search Group Style: Sfl6

Description- White background without Border & Header with Underline.

Additional Configuration: BORDERREQUIRED="N"

Search | Views | Clear | Go

ID ?  Name ?  Risk Event Type ?  ...

SOX ? ☐ Yes ☐ No

Status ?  Last Modified From ?  Last Modified To ?

### Search Group Style: Sfl7

Description- Blue background without Border & Header with Underline.

Additional Configuration: BORDERREQUIRED="N"

Search | Views | Clear | Go

ID ?  Name ?  Risk Event Type ?  ...

SOX ? ☐ Yes ☐ No

Status ?  Last Modified From ?  Last Modified To ?

### Search Group Style: Sfl8

Description- Yellow background without Border & Header with Underline.

Additional Configuration: BORDERREQUIRED="N"

Search | Views | Clear | Go

ID ?  Name ?  Risk Event Type ?  ...

SOX ? ☐ Yes ☐ No

Status ?  Last Modified From ?  Last Modified To ?

### Search Group Style: Ivflv8

As on : 23/12/2012

Risks	?	0
Controls	?	0
Incidents	?	0
Actions	?	2
KI	?	0
BCM	?	0
GL Account	?	0

### Search Group Style: Ivflv9

Risks	?	0
Controls	?	0
Incidents	?	0
Actions	?	2
KI	?	0
BCM	?	0
GL Account	?	0

#### 6.1.3.4 Tabbed Container (Type = 10)

##### Tab Group Style: Ivflv4

Tab with border- Forms XML configuration

Open Tasks									
Completed Tasks									
Notifications									
Reassigned Tasks									
Inbox (17)   Reassign   Expand All									
Task ID_DND	Task Name	Received On	Completion By	Task Type	From	Reassigned	Reassigned On	Status	
<input type="checkbox"/> 81631950	Challenge for gfhlmglhgIklyuklyku	11-Feb-2013	16-Feb-2013	Control Definition	Challenger	No	16-Feb-2013	Open	
<input type="checkbox"/> 81626834	Challenge for On Submit. Leading to Link...	08-Feb-2013	13-Feb-2013	Risk Definition	Challenger	No	13-Feb-2013	Open	
<input type="checkbox"/> 81629900	Challenge for On Submit. Leading to Link...	08-Feb-2013	13-Feb-2013	Risk Definition	Challenger	No	13-Feb-2013	Open	
<input type="checkbox"/> 81627245	Challenge for On Submit. Leading to Link...	08-Feb-2013	13-Feb-2013	Risk Definition	Challenger	No	13-Feb-2013	Open	
<input type="checkbox"/> 81628182	Challenge for GJUGJGJGJ	08-Feb-2013	13-Feb-2013	Risk Definition	Challenger	No	13-Feb-2013	Open	
<input type="checkbox"/> 81621354	Challenge for dfgdgdfgdg	07-Feb-2013	12-Feb-2013	Control Definition	Challenger	No	12-Feb-2013	Open	
<input type="checkbox"/> 81625981	Challenge for GJUGJGJGJ	07-Feb-2013	12-Feb-2013	Risk Definition	Challenger	No	12-Feb-2013	Open	
<input type="checkbox"/> 81338815	Challenge for 29 jan testing	31-Jan-2013	05-Feb-2013	Risk Definition	Challenger	No	05-Feb-2013	Open	
<input type="checkbox"/> 81332485	Challenge for dfdfdfdf	29-Jan-2013	03-Feb-2013	Control Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81330771	Challenge for Test for challenge	29-Jan-2013	03-Feb-2013	Control Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81332789	Challenge for dfdfdfdf	29-Jan-2013	03-Feb-2013	Control Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81332754	Challenge for dfdfdfdf	29-Jan-2013	03-Feb-2013	Control Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81330371	Challenge for Test for challenge	29-Jan-2013	03-Feb-2013	Control Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81332559	Challenge for Today is Jan 4th	29-Jan-2013	03-Feb-2013	Risk Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81329264	Im in miscellaneous menu	28-Jan-2013	02-Feb-2013	Information Libraries	Library Creator	No		Pending Approval	
<input type="checkbox"/> 81330057	Challenge for Today is Jan 4th	28-Jan-2013	02-Feb-2013	Risk Definition	Deilia Chang	No	02-Feb-2013	Open	
<input type="checkbox"/> 81329468	Challenge for cbc/bcv	28-Jan-2013	02-Feb-2013	Risk Definition	Challenger	No	02-Feb-2013	Open	

## Tab Group Style: Ivflv2

Tab without border. Forms XML configuration

Open Tasks									
Completed Tasks									
Notifications									
Reassigned Tasks									
Inbox (17)   Reassign   Expand All									
Task ID_DND	Task Name	Received On	Completion By	Task Type	From	Reassigned	Reassigned On	Status	
<input type="checkbox"/> 81631950	Challenge for gfhlmglhgIklyuklyku	11-Feb-2013	16-Feb-2013	Control Definition	Challenger	No	16-Feb-2013	Open	
<input type="checkbox"/> 81626834	Challenge for On Submit. Leading to Link...	08-Feb-2013	13-Feb-2013	Risk Definition	Challenger	No	13-Feb-2013	Open	
<input type="checkbox"/> 81629900	Challenge for On Submit. Leading to Link...	08-Feb-2013	13-Feb-2013	Risk Definition	Challenger	No	13-Feb-2013	Open	
<input type="checkbox"/> 81627245	Challenge for On Submit. Leading to Link...	08-Feb-2013	13-Feb-2013	Risk Definition	Challenger	No	13-Feb-2013	Open	
<input type="checkbox"/> 81628182	Challenge for GJUGJGJGJ	08-Feb-2013	13-Feb-2013	Risk Definition	Challenger	No	13-Feb-2013	Open	
<input type="checkbox"/> 81621354	Challenge for dfgdgdfgdg	07-Feb-2013	12-Feb-2013	Control Definition	Challenger	No	12-Feb-2013	Open	
<input type="checkbox"/> 81625981	Challenge for GJUGJGJGJ	07-Feb-2013	12-Feb-2013	Risk Definition	Challenger	No	12-Feb-2013	Open	
<input type="checkbox"/> 81338815	Challenge for 29 jan testing	31-Jan-2013	05-Feb-2013	Risk Definition	Challenger	No	05-Feb-2013	Open	
<input type="checkbox"/> 81332485	Challenge for dfdfdfdf	29-Jan-2013	03-Feb-2013	Control Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81330771	Challenge for Test for challenge	29-Jan-2013	03-Feb-2013	Control Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81332789	Challenge for dfdfdfdf	29-Jan-2013	03-Feb-2013	Control Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81332754	Challenge for dfdfdfdf	29-Jan-2013	03-Feb-2013	Control Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81330371	Challenge for Test for challenge	29-Jan-2013	03-Feb-2013	Control Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81332559	Challenge for Today is Jan 4th	29-Jan-2013	03-Feb-2013	Risk Definition	Challenger	No	03-Feb-2013	Open	
<input type="checkbox"/> 81329264	Im in miscellaneous menu	28-Jan-2013	02-Feb-2013	Information Libraries	Library Creator	No		Pending Approval	
<input type="checkbox"/> 81330057	Challenge for Today is Jan 4th	28-Jan-2013	02-Feb-2013	Risk Definition	Deilia Chang	No	02-Feb-2013	Open	
<input type="checkbox"/> 81329468	Challenge for cbc/bcv	28-Jan-2013	02-Feb-2013	Risk Definition	Challenger	No	02-Feb-2013	Open	

## 6.2 Form Events

### 6.2.1 Overview

This feature allows the user to upload new events and functions that are supported by platform.

**Event:** A JavaScript can be executed when an event occurs, like when a user clicks on an HTML element. Examples of events are onclick, onerror, onfinish, onfocus, and onselect.

**Function:** A function is a block of code that will be executed when it is called. Examples of functions are gethierarchycode, readOnly, getSelectedRows, openPopupForm, and UpdateGrid.

## 6.2.2 How to Define Form Events

To define an event:

1. From the LHS menu, expand **Administration** and click **Form Events**. The *Events and Functions Maintenance* window is displayed.

The screenshot shows the 'Events and Functions Maintenance' window. The left sidebar contains a 'Forms Manager' tree with the following items: Administration, Group Styles, Form Events, Messages, Layout Upload, UI Configurations, Generate, and App Administration. The main area is titled 'Events and Functions Maintenance' and contains two sections: 'Events' and 'JS Functions'. The 'Events' section has a search bar, a 'New' button, and a table with columns 'Event ID' and 'Event Name'. The 'JS Functions' section has a search bar, a 'New' button, and a table with columns 'Function ID' and 'Function Name'. Both tables have a 'Rows 1-10 of 30' indicator and a 'Help' link.

Figure 91. Events and Functions Maintenance window

2. Click **New** in the *Events* toolbar.

Field Name	Description and Remarks
Event ID	Enter a unique ID for the event. This is a mandatory field.  It's advisable to put unique ID. However a validation has been done which will restrict the user to save duplicate values.
Event Name	Enter the name of the event.

To define a function:

1. From the LHS menu, expand **Administration** and click **Form Events**. The *Events and Functions Maintenance* window is displayed.
2. Click **New** from the *JS Functions* toolbar.

Field Name	Description and Remarks
Function ID	Enter a unique ID for the event. This is a mandatory field.  It's advisable to put unique ID. However a validation has been done which will restrict the user to save duplicate values.
Function Name	Enter the name of the function.

## 6.3 Messages

### 6.3.1 Overview

Messages refer to the preferred locale specific text that is displayed to the users. These messages are displayed to communicate the occurrence of an event or the checking of a validation. These are also used for displaying locale sensitive texts on the screen like Bread Crumbs, Header Text, Name of the URL Control, and so on.

### 6.3.2 How to Create a Message

#### Steps to create a message

1. From the LHS menu, expand **Administration** and click **Messages**. The *Messages Maintenance* window is displayed.
2. Click **New** in the *Messages* toolbar.

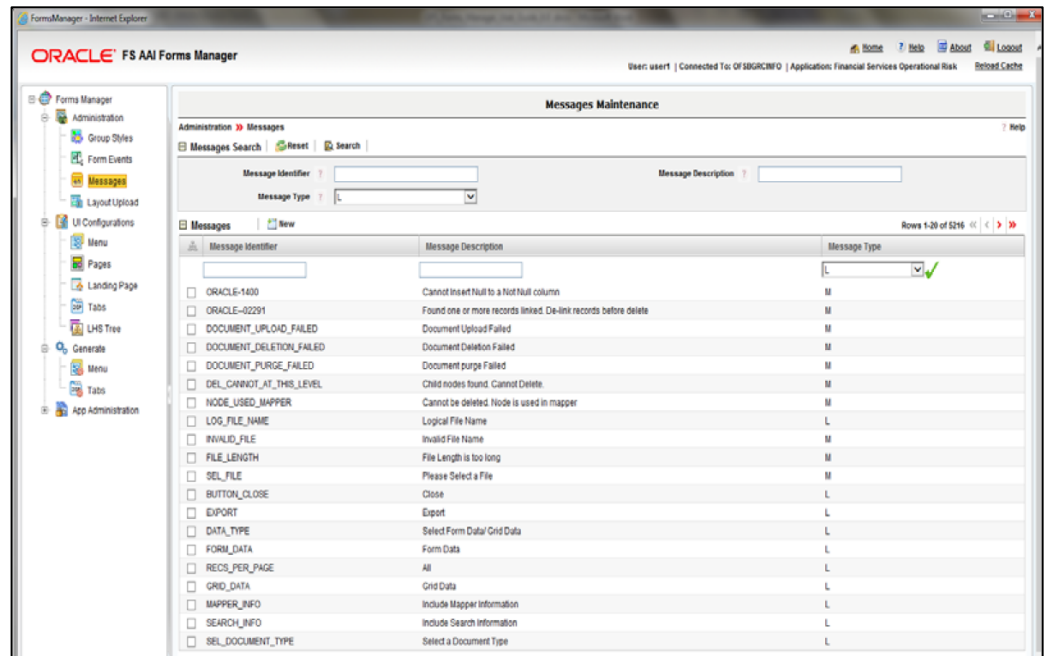


Figure 92. Messages Maintenance window

Field Name	Description and Remarks
Message Identifier	Enter a unique ID for the message. This is a mandatory field.  It's advisable to put unique ID. However a validation has been done which will restrict the user to save duplicate values.
Message Description	Enter the message that needs to be displayed to the user.
Message Type	Select the message type from the drop-down list. <b>L</b> denotes Label Messages, <b>M</b> denotes Popup Messages, and <b>S</b> denotes Solution Specific Messages.

### 6.3.3 Messages Usage

Following example displays how the messages can be created and tagged with the validations, header text and so on.

#### 6.3.3.1 To use a Message in a UI Validation

To call a message in a UI validation, navigate to the validation new/ edit screen and start typing in the **Message** field as shown. The list of defined messages matching the user's suggestion will be displayed. For more information, see [How to Create UI Validation Rules](#) section.

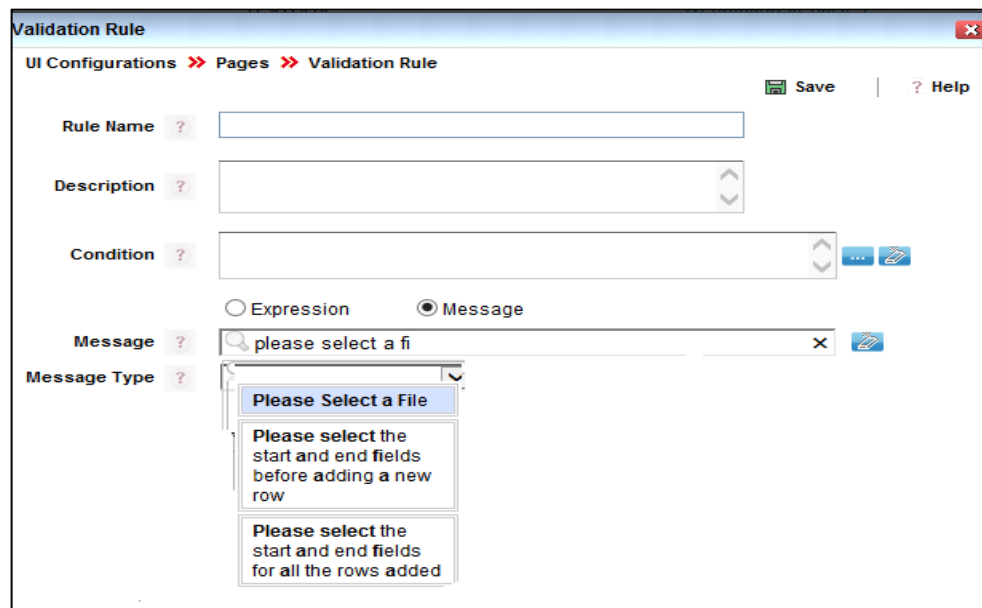


Figure 93. Message in UI Validation Rule

#### 6.3.3.2 To use a Message in a ToolBar Action Control

To display a message in a ToolBar Action Control, navigate to the ToolBar Action control new/ edit screen and start typing in the **Text Along With Image** field as shown in the following figure. The list of defined messages matching the user's suggestion will be displayed.

**Add Action Controls**

UI Configurations >> Pages >> Action Controls

Copy Save Help

Name\* ? Object Name\* ? Container ?

Type\* ? TOOLBAR ACTION

**Control Details** Events Image Options

**Basic Properties**

Control Mode\* ? Editable Masking Required ? Yes

Insert Batch Index ? 1 Associated Image ?

Text Along With Image ? please select a fi X DB Operation Required ? No

**Additional Properties**

Please Select a File

Please select the start and end fields before adding a new row

Please select the start and end fields for all the rows added

Figure 94. Message in ToolBar Action Control

## 6.4 Layout Upload

### 6.4.1 Overview

Layout Template is used to define the Layout of standard template / format that can be used as the framework to create different screens in the application. Details of the frames and JSP to be available in the template can be configured. Sample image of the template can be uploaded for reference. These templates can be chosen while configuring different screens of the application to maintain standard look and feel throughout.

---

**NOTE:** The new template name and the associated layouts (JSP) should not overwrite the packaged template name and the associated layouts (JSP).  
The frame name used to register should match the frame name used during the development of layout (JSP).

---



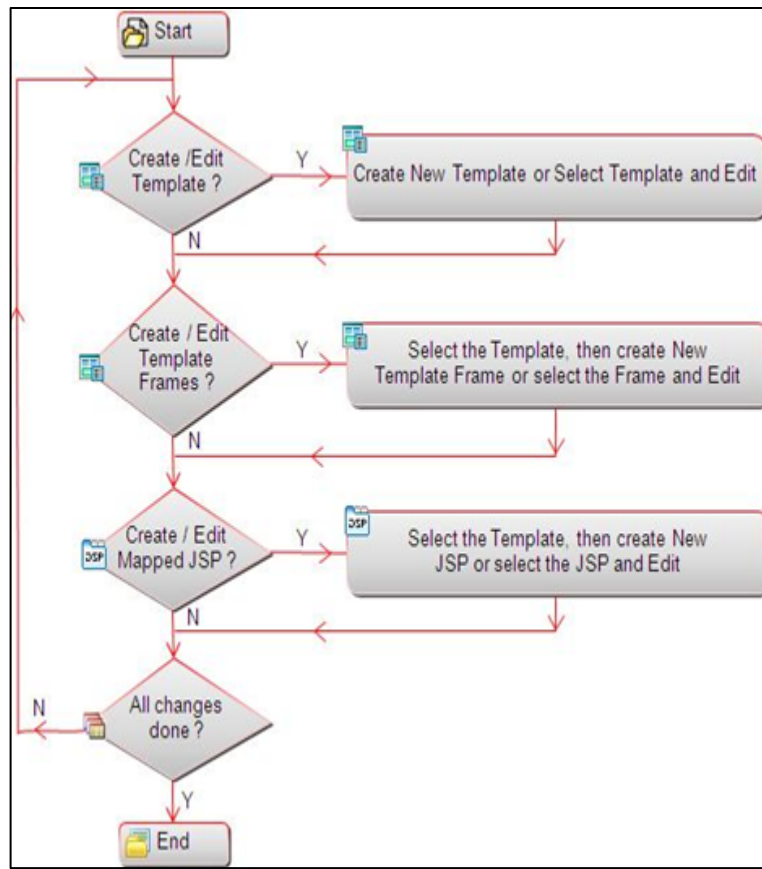


Figure 95. Flowchart of Layout Upload

#### 6.4.2 How to Create a Layout Template

This feature allows you to create a new template based on the design of the underlying JSP file. For example, if your underlying JSP contains five frames as shown in the following figure, you have to define five template frames in your template.

## Sample Landing Page Layout

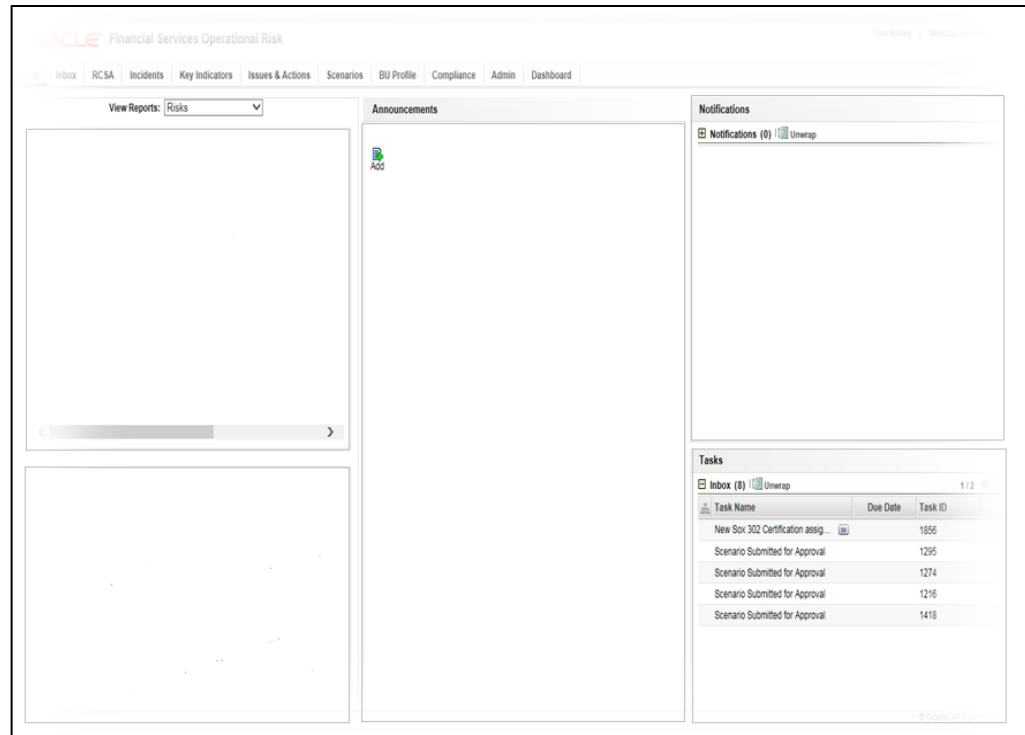


Figure 96. Sample Layout

## Steps for Template Configuration and Mapped Layout Template

1. From the LHS menu, expand **Administration** and click **Layout Upload**. The *Layout Maintenance* window is displayed.
2. Click **New** in the *Templates* toolbar. The *Template Configuration* window is displayed.

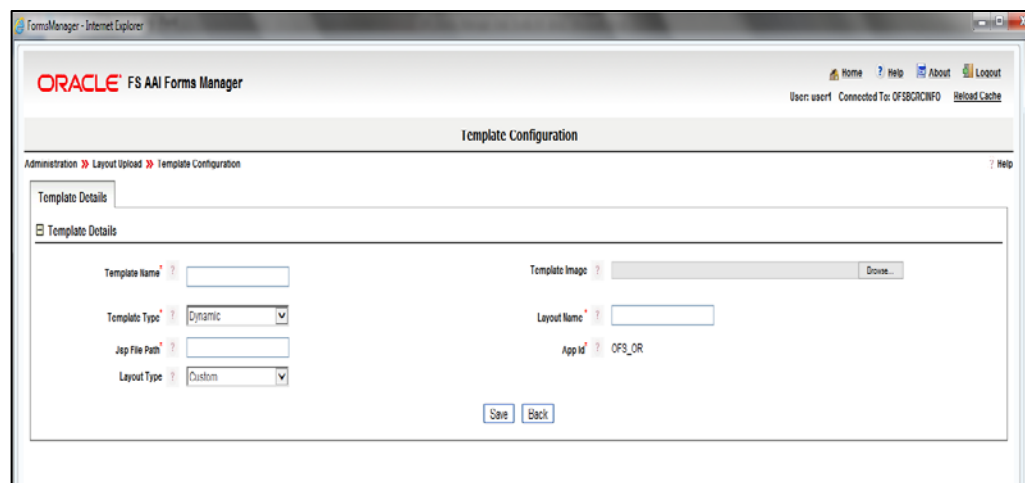


Figure 97. Template Configuration Window

Field Name	Description
Fields marked with red asterisk (*) are mandatory.	
Template Name*	Enter the name of the template. You should not enter the template name same as packaged templates.
Template Image	Select a sample image for the template from the appropriate location by clicking <b>Browse</b> . The image should be a preview of the template.
Template Type*	Select the type of Template from the drop-down list, if it has to be Dynamic or Static.
Layout Name*	Enter the name of the underlying JSP.
Jsp File Path*	Enter the path where the underlying JSP is located.
App ID*	The Application ID is automatically generated.
Layout Type	<p>Select the layout type from the drop-down list.</p> <p>This value determines if the user wants to select a prepackaged JSP file or a customized JSP file.</p> <p>The options are <b>Standard</b> and <b>Custom</b>.</p> <p><b>Standard</b>- Select this option if the JSP file you entered in the <b>Layout Name</b> field is prepackaged along with the product.</p> <p><b>Custom</b>- Select this option if the JSP file you entered in the <b>Layout Name</b> field is a customized JSP file.</p>

3. Click **Save**.

### Steps to create a new Template Frame

1. From the *Layout Maintenance* window, select the template to which you want to add a frame and click **New** in the *Template Frames* toolbar. The *Template Frame Configuration* window is displayed.

Figure 98. Template Frame Configuration Window

Field Name	Description
Fields marked with red asterisk (*) are mandatory.	
Frame Name*	Enter the name of the template frame. It is advisable to give some meaningful name to the frame. The frame name should match the exact frame name used during the development of underlying layout (JSP).
Frame Description	Enter the description of the frame. It is advisable to give some meaningful name to the frame.
Available for View	Select <b>Y</b> or <b>N</b> to display or hide the frame in the template layout.
Supported Object Types	Select the supported object type for the frame. The options are: Form, Tab, Report, Custom Jsp.

### 6.4.3 Layout Maintenance

From the LHS menu, expand **Administration** and click **Layout Upload**. The *Layout Maintenance* window is displayed.

**NOTE:** When you select a template, the available frames will be displayed under *Template Frames* grid and all mapped layout templates are displayed in the *Mapped Layout Templates* grid.

The screenshot displays the 'Layout Maintenance' window in the Oracle FS AAI Forms Manager. The interface includes a left-hand navigation pane with various administrative options. The main workspace is divided into several functional areas:

- Administration > Layout Upload:** This section at the top provides search capabilities for templates, with input fields for 'Template ID' and 'Template Name'.
- Templates:** A table listing available templates. The table has three columns: 'Template ID', 'Template Name', and 'Template Mode'. It shows five rows of data, with the first row selected.
- Frame Search:** A section below the templates table, featuring search filters for 'Frame ID' and 'Frame Name'.
- Template Frames:** A table that displays frames associated with the selected template. It includes columns for 'Frame ID', 'Frame Name', and 'Available For View'.
- Layout Template Search:** Another search section, with filters for 'Layout Template ID' and 'Layout Template Name'.
- Mapped Layout Templates:** A table at the bottom showing mapped layout templates, with columns for 'Layout Template ID', 'Layout Template Name', and 'Layout Template Type'.

Figure 99. Layout Maintenance Window

Action	Description
Search	<p>Search for a template by providing <b>Template ID</b> and <b>Template Name</b> and clicking <b>Search</b> in the <i>Template Search</i> toolbar.</p> <p>Similarly, select a template and provide <b>Frame ID</b> and <b>Frame Name</b> and click <b>Search</b> in the <i>Frame Search</i> toolbar to search for template frame.</p> <p>Select a template and provide <b>Layout Template ID</b> and <b>Layout Template Name</b> and click <b>Search</b> in the <i>Layout Template Search</i> toolbar to search for Mapped layout template.</p>
Modify	<p>Select a template and click <b>Edit</b> in the <i>Templates</i> toolbar to modify a template.</p> <p>Select the template and frame and then click <b>Edit</b> in the <i>Template Frames</i> toolbar to modify a template frame.</p> <p>Select the template and the mapped layout template and then click <b>Edit</b> in the <i>Mapped Layout Templates</i> toolbar to modify a mapped layout template.</p>
Delete	<p>Select a template and click <b>Delete</b> in the <i>Templates</i> toolbar to delete a template.</p> <p>Select the template and frame and then click <b>Delete</b> in the <i>Template Frames</i> toolbar to delete a template frame.</p> <p>Select the template and the mapped layout template and then click <b>Delete</b> in the <i>Mapped Layout Templates</i> toolbar to delete a mapped layout template.</p>

## 7 Forms Manager Customization Guidelines

Refer to the FMConfigurationGuidelines.xlsx for information about configuration and support of each feature in Forms Manager. It also lists out the guidelines to be followed for each operation.



FMConfigurationGuid  
elines.xlsx

## 8 Configurations for Styling

### 8.1 Required Configuration for Application Level Skin

All applications using Forms Framework can be configured with a custom CSS file. This helps application developers and clients to define their own custom look and feel within the application.

The user can configure skins for the following levels:

1. The configurability is decided at the time of choosing the Application link from the AAI LHS menu.
  - Configuration changes are made to the LHS Menu (locale specific) xml file, using the “cssFileName” parameter.

For example, if bankXYZ requires a particular customized version of the skin, they can create their own version of the CSS file named bankXYZ.css (see [Creating a custom .CSS File](#)). This CcssFileName parameter can then be set in the LHS Menu XML for a particular application, where the paraname key is “cssFileName”, with the paraname value “bankXYZ”.
  - If the “cssFileName” parameters are not defined, then the default AAI CSS file is loaded.
  - This configuration is applicable to both Application CSS and the FormsFramework CSS files.
2. What happens when an application directly lands to the application landing page, without having to choose the application link from AAI LHS menu. This will occur if the application user selects the AAI “Make my Home Page” select box option, in the AAI home page.
  - To change the skin, you will have to modify the Database values. The above parameter configurations “cssFileName” paraname key and the paraname value are appended to the field “START\_PAGE\_URL” in Table cssms\_start\_page\_master.
  - If the “cssFileName” parameters are not defined, then the default AAI CSS file is loaded.
  - This configuration is applicable to both Application CSS and the FormsFramework CSS files.
3. Login Page, AAI Home Page CSS Configuration.

---

**NOTE:** The below configuration feature for AAI stylesheet, is available only in the forthcoming OFSAAI 8.0.0.0 release. For any installation prior to this release, the user has to override his changes to the existing stylesheetAAI.css file (see: List of CSS files with paths).

---

Login Page, AAI Home Page, and AAI Modules can be customized using the below steps:

2. Create a new configurable stylesheet. For example, XYZ\_stylesheetAAI.css. The XYZ\_stylesheetAAI.css stylesheet will be configurable and will be decided during product installation.
3. Configure the required style in Configuration table for the paraname key 'DEFAULT\_AAICSS\_INFO'. Specify the paraname value as the new customized XYZ\_stylesheetAAI.css.

This configuration is applicable to the AAI CSS file.

## 8.2 Forms Framework Styles Hierarchy

Forms Framework Styles can be configured at a

- Macro level – for example, Application skin.
- Micro level- for example, containers, container rows, and container controls.

Macro level changes are explained in [Required Configuration for Application Level Skin](#) section.

The Micro level Style configuration can be configured in the Form XML pages. These settings will override the Macro level style settings. These can be classified as:

- Container - GroupStyles
- Row - Label/ Value & Controls

### 8.2.1 Container – Group Styles

Containers are used to group controls. This is also a logical grouping of controls. Containers have GUI definitions, so that the look and feel of the containers can be set.

GUI Definition is achieved through a XML definition.

An XML file is created for each form. The name of the XML file is same as the form code with the extension xml. The HTML properties of containers and controls in a form are defined in the XML file.

Container Groupstyles are a grouping of CSS rules. These Groupstyles are applied to the container. For a particular GroupStyle, all child CSS rule definitions are appended with the Groupstyle Name.

For example, consider GroupStyle “Gflv2” has got CSS rule definitions such as rowHead, TRrow2, and TRrow3. These ClassNames belonging to the GroupStyle “Gflv2” will now be defined as rowHeadGflv2, TRrow2Gflv2, TRrow3Gflv2, and so on.

Example for GroupStyle Configuration in XML:

```
<CONTAINER GROUP_STYLE="Gflv2" ID="5" NAME="RiskDetails" TYPE="5"
VIEWMODE="1" COLLAPSEREQUIRED="N"></CONTAINER>
```



### 8.2.2 Label / Value and Controls

A container row having input fields can contain any number of Label-Value pairs. Each Label-Value pair can have a ClassName assigned to the Label and a ClassName assigned to the Value. This can be configured using the following Configuration in XML:

```
<CSSCLASSNAME TD_LABEL_STYLE="className_1"
TD_DATA_STYLE="className_2"></CSSCLASSNAME >
```

Controls can be assigned to their own ClassNames. This can be configured using the following configuration in XML:

```
< CSSCLASSNAME="formlegend" ></CSSCLASSNAME >
```

### 8.2.3 Images Configuration

This configuration is for controls of TYPE 25 and TYPE 41 that make use of image icons in XML configuration.

```
<IMAGE IMAGE_TEXT="RENDERER.ROR_ADD_IMG"> images/gridtoolbar_
add.gif</IMAGE>
```

The following steps explain how this new image can be included in the FormsFramework CSS file, which can be later utilized by the XML configuration.

1. Define a new Rule in your FormsFramework CSS file as shown below:

```
.gridtoolbar_add{width:23px;height:15px; background-image: URL
(.../images/icon_common.gif); background-repeat: no-repeat; background-
position:-140px -400px;}
```

- The ClassName should be the same as the image name without the file extension (.css).
- The width and height for toolbar images should be 23px X 15px.
- The icon-image should be present in the sprited image: icon\_common.gif (see [List of Sprited images and Paths](#))
- The background-repeat should be no-repeat.
- Calculate the x, y co-ordinate values for the sprited image background-position. The block size of each image icon- width \* height = 70px \* 80px as shown in the following figure.

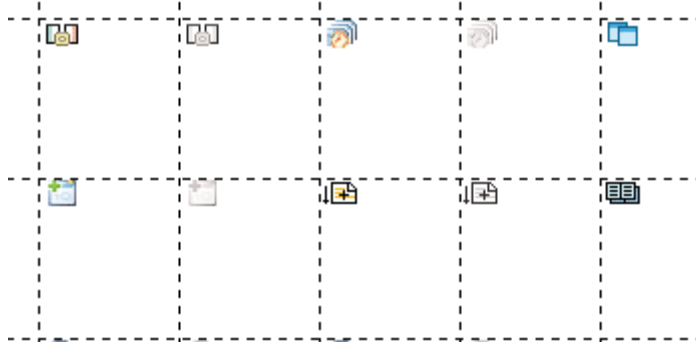


Figure 100. An example of sprited image

- The newly created CSS Rule Definition can now be utilized in the XML configuration:

```
<IMAGE IMAGE_TEXT="RENDERER.ROR_ADD_IMG">images/gridtoolbar_
add.gif</IMAGE>
```

### 8.2.3.1 List of Sprited images with Paths

#	Module	Path	Sprited Image Names	
1	AAI	//OFSAAI /images/	Image name	Description
			bg_cvd.gif	Used for layout elements
2	Applications (Example: ROR)	//OFSAAI/solution/ROR/images/	bg_hzl.gif	Used for layout elements horizontal repeat
3	FormsFramework	//OFSAAI/formsFramework/formsrenderer/images/	bg_vtl.gif	Used for layout elements vertical repeat
			lhsmenu_icon.gif	Used for Tree Icons
			icon_common.gif	Toolbar Icons
			hierarchy_icons.gif	Used in Hierarchy Browser

## 8.3 Creating a Custom .CSS File

List of CSS files with paths:

#	Module	Path	CSS File Name	Comments	Usage
1	AAI	//OFSAAI /css/	stylesheetAAI.css		Login Page, AAI-Home Page & AAI Modules,
2	Applications (Example: ROR)	//OFSAAI/solution/ROR /css/	CSS_OFSAAI.css		Application files

#	Module	Path	CSS File Name	Comments	Usage
3	FormsFrame work	//OFSAAI/formsFrame work/formsrenderer/css /	CSS_OFSAAI.css (This file name should have the same Name as the above Solution file Name)	This file has a CSS file import for icons used in the application:  @import URL('CSS_ICON_OFSAAI.css')	Forms Framework Components

The required customization can be achieved by following the below set of steps.

4. Create a copy of the required CSS file.
5. Do not change or alter any existing CSS Rule Name defined in the CSS file.
6. Changes can be made to the attributes for a particular CSS Rule Name, until the required visual effect is achieved.

## 8.4 CSS Structure

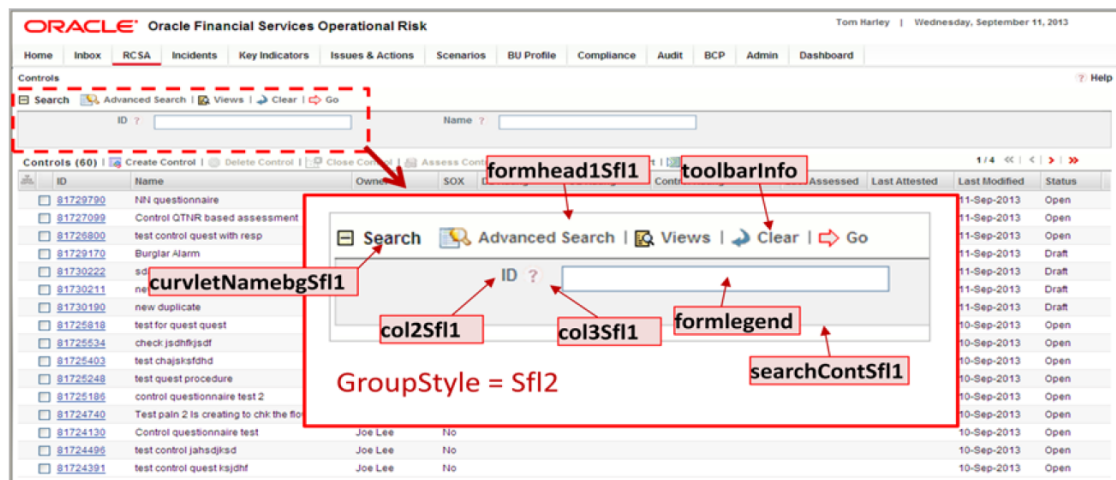


Figure 101. Search Container with a GroupStyle with ClassNames

In the above example, the GroupStyle "Sfl" is applied to the search container. All ClassNames belonging to the GroupStyle are appended with the GroupStyle name. For example, SearchContSfl1, col2Sfl1, col3Sfl1 and so on.

Any changes to these ClassNames will affect all containers where the GroupStyle has been applied.

The following table shows commonly used Group Styles:

#	GroupStyle ID	Container Type	Description
1	Sfl1	Search Container	Applied to Search Container
2	Gflv2	Data Table	Applied to Data Table Grid
3	lvflv2	Label Value Container	Applied to Label Value Container
4	lvflv4	Tab Container	Applied to Tab Container

The screenshot displays the Oracle Financial Services Operational Risk interface. A red dashed box highlights a data table grid. Red arrows point from labels to specific elements: 'toolbarInfo' points to the top toolbar, 'topheaderGGflv2' points to the table header, 'curvletMainTextGflv2' points to the table body, 'rowHeadGflv2' points to a row header, 'TRow2Gflv2' points to a table row, and 'TRow3Gflv2' points to another table row. A red box labeled 'GroupStyle = Gflv2' is positioned near the table. The table contains columns for ID, Name, Owner, SOX, and DE.

ID	Name	Owner	SOX	DE
81729790	HN questionnaire	Joe Lee	No	
81727099	Control QTR based assessment	Joe Lee	No	
81726800	test control quest with resp	Joe Lee	No	
81729170	Burglar Alarm		No	
81730222	sdasd		No	
81730211	new duplicate		No	
81730190	new duplicate		No	
81725818	test for quest quest	Business ...	No	
81725534	check jsdhfjsdf	Joe Lee	No	
81725403	test chajsksfhd	Joe Lee	No	

Figure 102. Showing a Data Table Grid Container GroupStyle with ClassNames

The screenshot displays the Oracle Financial Services Operational Risk interface. A red dashed box highlights a label value container. Red arrows point from labels to specific elements: 'col3lvflv2' points to the 'Name' field, 'col2lvflv2' points to the 'Description' field, and 'toolbarInfo' points to the top toolbar. A red box labeled 'GroupStyle = lvflv2' is positioned near the label value container. The label value container contains fields for Name, Description, Business Line, Library Reference, Risk Inventory, Product, Risk Category, Type, Requires Attestation, Cost, Assessment Type, Control Assessor, DE Questionnaire, OE Questionnaire, Comments, SOX, Location, Control Category, Risk Event Type, Process, Owner, Nature, Legal Entity, Key, Respondents, and Respondents.

Name	Description	Business Line	Library Reference	Risk Inventory	Product	Risk Category	Type	Requires Attestation	Cost	Assessment Type	Control Assessor	DE Questionnaire	OE Questionnaire	Comments	SOX	Location	Control Category	Risk Event Type	Process	Owner	Nature	Legal Entity	Key	Respondents	Respondents
Control QTR based assessment	Control QTR based assessmentControl QTR based assessment	Network and Advisory sales	TEST CONTROL							Questionnaire	Clark Ricky	seccc	check OE		No	London	Organization		10Sep13	Joe Lee	Corrective		No	1	1

Figure 103. Showing a Label Value Container GroupStyle with ClassNames

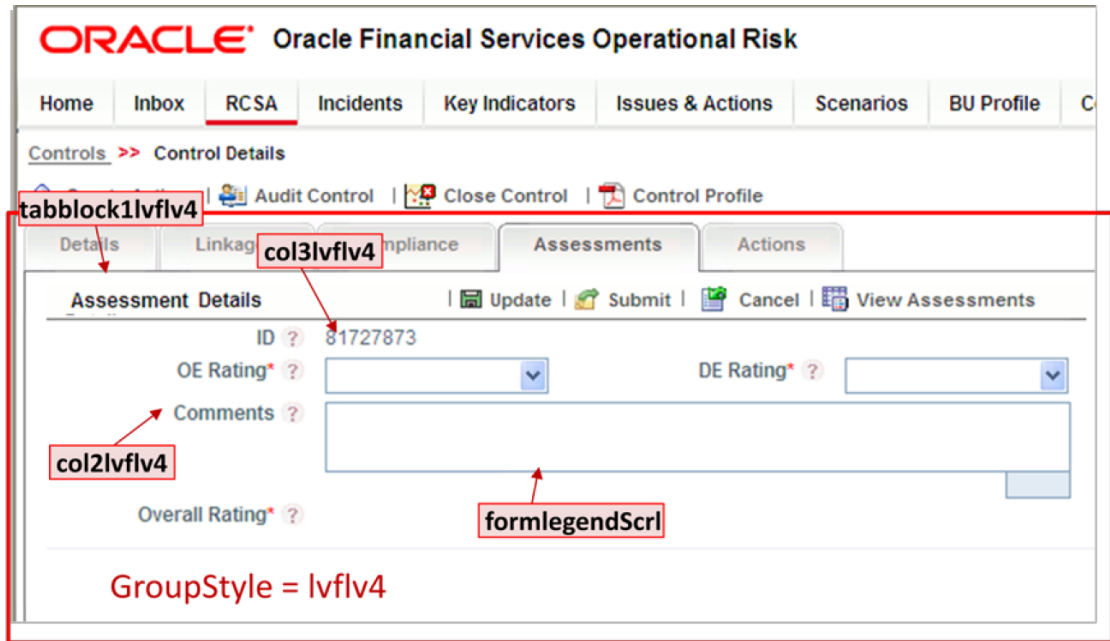


Figure 104. Showing a Tab Container GroupStyle with ClassNames

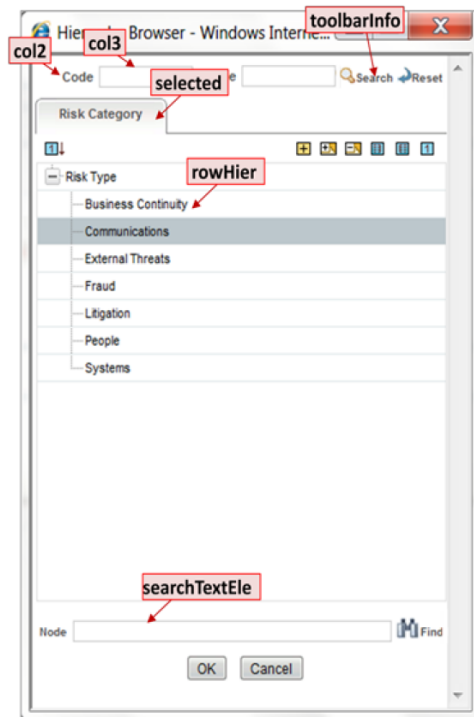


Figure 105. Showing Hierarchy Browser ClassNames

Hierarchy related CSS files are located in the following folder:

//OFSAAI/formsFramework/formsrenderer/hiercss

Hierarchy related Image files are located in the following folder:

//OFSAAI/formsFramework/formsrenderer/hierimages

appttl

welbg

ORACLE

Oracle Financial Services Operational Risk

Tom Harley | Wednesday, September 11, 2013

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Go

menuParent

brdcNonSel

Name ?

Controls (60)

Create Control

Delete Control

Close Control

Assess Control

Attest Control

Export

Unwrap

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ID	Name	Owner	SOX	DE Rating	OE Rating	Control Rating	Last Assessed	Last Attested	Last Modified	Status
81729790	NH questionnaire	Joe Lee	No						11-Sep-2013	Open
81727099	Control QTHR based assessment	Joe Lee	No	Qualified	Effective	Qualified	11-Sep-2013	11-Sep-2013	11-Sep-2013	Open
81726800	test control quest with resp	Joe Lee	No						11-Sep-2013	Open
81729170	Burglar Alarm		No						11-Sep-2013	Draft
81730222	sdasd		No						11-Sep-2013	Draft
81730211	new duplicate		No						11-Sep-2013	Draft
81730190	new duplicate		No						11-Sep-2013	Draft
81725818	test for quest quest	Business ...	No						10-Sep-2013	Open
81725534	check jsdthfjsdf	Joe Lee	No						10-Sep-2013	Open
81725403	test chajskafhd	Joe Lee	No						10-Sep-2013	Open
81725248	test quest procedure	Tom Harley	No						10-Sep-2013	Open
81725186	control questionnaire test 2	Joe Lee	No						10-Sep-2013	Open
81724740	Test pain 2 is creating to chk the flow	Tom Harley	No						10-Sep-2013	Open
81724130	Control questionnaire test	Joe Lee	No						10-Sep-2013	Open
81724496	test control jahsdjksd	Joe Lee	No						10-Sep-2013	Open
81724391	test control quest kjdhf	Joe Lee	No						10-Sep-2013	Open

ffwpagebcyp

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Figure 106. Showing Header and Footer ClassNames

## 9 Appendix A – General Use Cases

### 9.1 Tutorial for creating a Sample Page

In this tutorial, we will see how a sample page is created with containers and controls within the containers. This form will be invoked, when a menu is clicked and can be saved after making the changes.

Following are the specifications.

- Menu name – Risk
- Page name - Risk Definition Page
- Container name - Risk Details, Save
- Controls within the Container, Risk Details – Risk ID, Risk Name, Created Date, Risk Business Line

---

**NOTE:** In this tutorial, filling of mandatory fields and minimum details are only given. You can add more details according to your requirement.

---

#### 9.1.1 Expected Functionality

The Risk Definition Page will be invoked by clicking the menu, **Risk**, which has a risk identification function mapped to it. Risk Definition Page will have two containers by the names Risk Details and Save Risk Details. Risk Details is a Normal container with different controls inside that. Save Risk Details is a Button container that has the Save and Cancel controls with respective functions mapped to them. When the **Save** button is clicked, the risk details get saved with the changes made to the controls in its Risk Details container.

#### 9.1.2 Defining a Page with Object Code as PageRisk

We will begin by creating the page that gets invoked on the click of the menu, Risk.

1. From the LHS menu of the Forms Manager, expand **UI Configurations** and click **Pages**. The *Pages* window appears.
2. Click **New** in the *Pages* toolbar. The *Page Details* window is displayed.
3. Enter the **Name** as “Risk Definition Page” and select the **Layout Name** as Form Layout. This will be the name that is entered for the **Page Name** field while defining the Menu. See the following screenshot:

Page Details

UI Configurations >> Pages >> Page Details

Save ? Help

Page Definition

Name\* ? Risk Definition Page

Layout Name\* ? FORM LAYOUT

Module Name ?

Sub Module Name ?

Page Description ?

- Click **Save**. The *Page Maintenance* window is displayed.
- In the *Page Block/Objects* section, enter the **Object Code** as “PageRisk” and **Object Name** as “PageRisk”. See the following screenshot.

Page Maintenance

UI Configurations >> Pages >> Risk Definition Page

Generate Delete Pages ? Help

Page Definition

Page Details Edit

Name ? Risk Definition Page

Code ? ST\_OFS\_OR\_10011

Description ?

Module ?

SubModule ?

Help ?

Page Block/Objects

Layout Name: FORM LAYOUT

Object Name	Object Code	Object Type	Block Name
PageRisk	PageRisk	Form	Form

Save

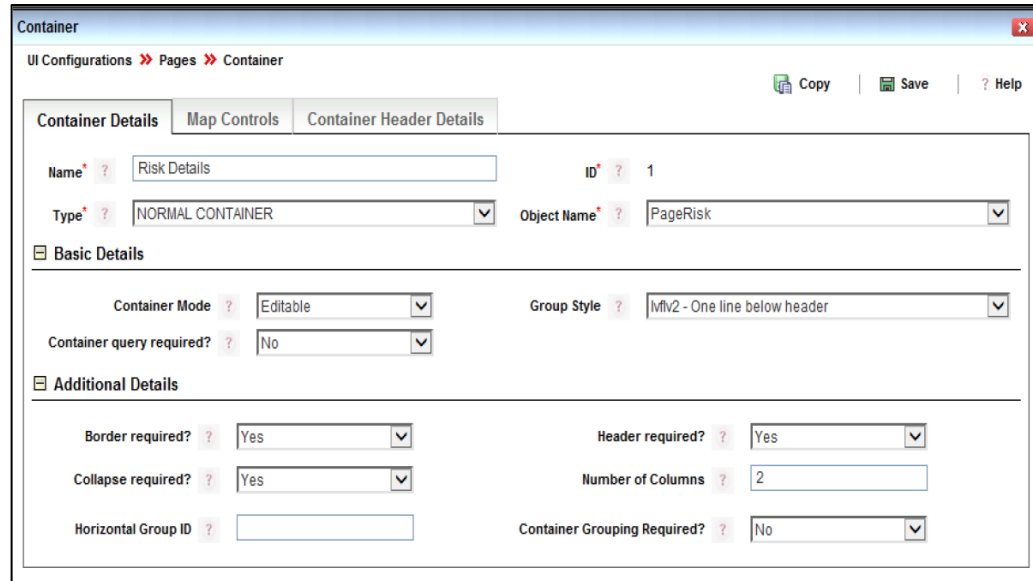
- Click **Save**. On successful save, you will receive the confirmation message that your changes are saved and the *Page Maintenance* window is displayed.

### 9.1.3 Defining a Container within the Risk Definition Page

We will create a container within the page by the name, Risk Details.

- From the *Page Maintenance* window, click **Manage Containers** in the *Fields* toolbar. The *Container Details* window is displayed.
- Click **New** in the *Containers* toolbar. The *Container* window is displayed.
- Enter the **Name** as “Risk Details”.
- Select the **Type** as NORMAL CONTAINER.
- Select the **Container Mode** as Editable.
- Enter **Number of Columns** as “2”. See the following screenshot.





Container

UI Configurations >> Pages >> Container

Copy | Save | Help

Container Details | Map Controls | Container Header Details

Name\* ? Risk Details ID\* ? 1

Type\* ? NORMAL CONTAINER Object Name\* ? PageRisk

Basic Details

Container Mode ? Editable Group Style ? Mlv2 - One line below header

Container query required? ? No

Additional Details

Border required? ? Yes Header required? ? Yes

Collapse required? ? Yes Number of Columns ? 2

Horizontal Group ID ? Container Grouping Required? ? No

7. Click **Save**.

## 9.1.4 Defining Controls within the Risk Details Container

### 9.1.4.1 Defining Risk ID Control

We will create a control within the container by the name Risk ID.

1. From the *Page Maintenance* window of your page, click **New** in the *Non- Action Fields* toolbar. The *Add Non Action Controls* window is displayed.
2. Enter the **Name** as "Risk ID".
3. Select **Object Name** as "PageRisk", which is the name of the Page that you created.
4. Select **Container** as "Risk Details", which is the name of the Container that you created.
5. Select **Type** as TEXTBOX.
6. Select **Control Mode** as Editable. See the following screenshot.

**Add Non Action Controls**

UI Configurations >> Pages >> Non Action Controls

Copy Save Help

Name \* ? Risk ID Object Name \* ? PageRisk Container \* ? Risk Details-1

Type \* ? TEXTBOX

Control Details Events

**Basic Properties**

Control Mode \* ? Editable Masking Required \* ? No

Minimum Length \* ? Maximum Length \* ?

Is Mandatory \* ? ☐ Insert Batch Index \* ? 1

DB Operation Required \* ? No Spell Check Required \* ? Yes

**Additional Properties**

7. Click **Save**. On successful save, you will receive the confirmation message that your changes are saved.

#### 9.1.4.2 Defining Risk Name Control

We will create a control within the container by the name Risk Name.

1. From the *Page Maintenance* window of your page, click **New** in the *Non- Action Fields* toolbar. The *Add Non Action Controls* window is displayed.
2. Enter the **Name** as "Risk Name".
3. Select **Object Name** as "PageRisk", which is the name of the Page that you created.
4. Select **Container** as "Risk Details", which is the name of the Container that you created.
5. Select **Type** as TEXTBOX.
6. Select **Control Mode** as Editable. See the following screenshot.

**Add Non Action Controls**

UI Configurations >> Pages >> Non Action Controls

Copy | Save | Help

Name\* ? Risk Name    Object Name\* ? PageRisk    Container ? Risk Details-1

Type\* ? TEXTBOX

**Control Details**    Events

**Basic Properties**

Control Mode* ? Editable	Masking Required ? No
Minimum Length ?	Maximum Length ?
Is Mandatory ? <input type="checkbox"/>	Insert Batch Index ? 1
DB Operation Required ? No	Spell Check Required ? Yes

**Additional Properties**

7. Click **Save**. On successful save, you will receive the confirmation message that your changes are saved.

#### 9.1.4.3 Defining Created Date Control

We will create a Date control within the container by the name Created Date.

1. From the *Page Maintenance* window of your page, click **New** in the *Non- Action Fields* toolbar. The *Add Non Action Controls* window is displayed.
2. Enter the **Name** as "Created Date".
3. Select **Object Name** as "PageRisk", which is the name of the Page that you created.
4. Select **Container** as "Risk Details", which is the name of the Container that you created.
5. Select **Type** as DATE.
6. Select **Control Mode** as Editable.
7. Select **Date Format** from the drop-down list. See the following screenshot.

UI Configurations >> Pages >> Non Action Controls

Copy | Save | Help

Name\* ? Created Date    Object Name\* ? PageRisk    Container ? Risk Details-1

Type\* ? DATE

Control Details | Events

Basic Properties

Control Mode\* ? Editable    Masking Required ? No

Is Mandatory ? ☐    Enter date Required ? No

Timestamp ? No    Date Format\* ? dd-MM-yyyy

Insert Batch Index ? 1    DB Operation Required ? No

Additional Properties

8. Click **Save**. On successful save, you will receive the confirmation message that your changes are saved.

#### 9.1.4.4 Defining Risk Business Line Hierarchy Control

We will create a hierarchy control within the container by the name Risk Business Line.

1. From the *Page Maintenance* window of your page, click **New** in the *Non- Action Fields* toolbar. The *Add Non Action Controls* window is displayed.
2. Enter the **Name** as “Risk Business Line”.
3. Select **Object Name** as “PageRisk”, which is the name of the Page that you created.
4. Select **Container** as “Risk Details”, which is the name of the Container that you created.
5. Select **Type** as HIERARCHY.
6. Select **Control Mode** as Editable. See the following screenshot:

**Add Non Action Controls**

UI Configurations >> Pages >> Non Action Controls

Copy Save Help

Name\* ? Risk Business Line Object Name\* ? PageRisk Container ? Risk Details-1

Type\* ? HIERARCHY

Control Details Events Extra Parameters Dynamic Filter Parameters

**Basic Properties**

Control Mode\* ? Editable Masking Required ? Yes

Is Hierarchy Main Toolbar ? Yes Is Mandatory ? ☐

Insert Batch Index ? 1 Is Drop Down ? No

Node Identifier ? Yes Max Nodes ?

Changemode on Maxnodes ? No Is Multi Select ? No

Expansion Level ? DB Operation Required ? No

Search Filter Label Required ? No

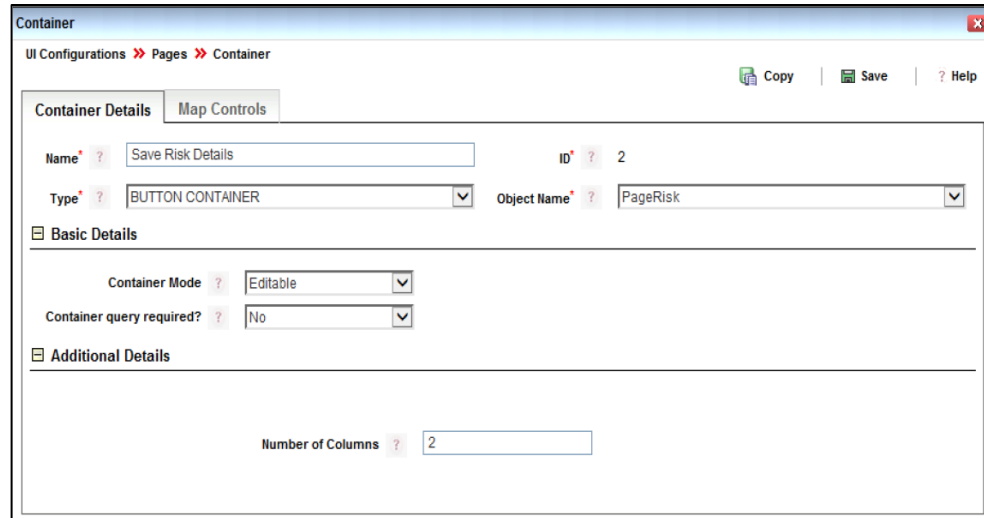
**Additional Properties**

7. Click the *Extra Parameters* tab and click **Add Parameters**.
8. Enter **Name** as “hierarchy”, **Scope** as “Static” and **Value** as “1”.
9. Click **Save**. On successful save, you will receive the confirmation message that your changes are saved.

### 9.1.5 Defining another Container within the Risk Definition Form

We will create a container within the page by the name, Save Risk Details.

1. From the *Page Maintenance* window, click **Manage Containers** in the *Fields* toolbar. The *Container Details* window is displayed.
2. Click **New** in the *Containers* toolbar. The *Container* window is displayed.
3. Enter the **Container Name** as “Save Risk Details”.
4. Select the **Type** as BUTTON CONTAINER.
5. Select the **Container Mode** as Editable.
6. Enter **Number of Columns** as “2”. See the following screenshot.



Container

UI Configurations >> Pages >> Container

Copy Save Help

Container Details Map Controls

Name\* ? Save Risk Details ID\* ? 2

Type\* ? BUTTON CONTAINER Object Name\* ? PageRisk

Basic Details

Container Mode\* ? Editable

Container query required? ? No

Additional Details

Number of Columns ? 2

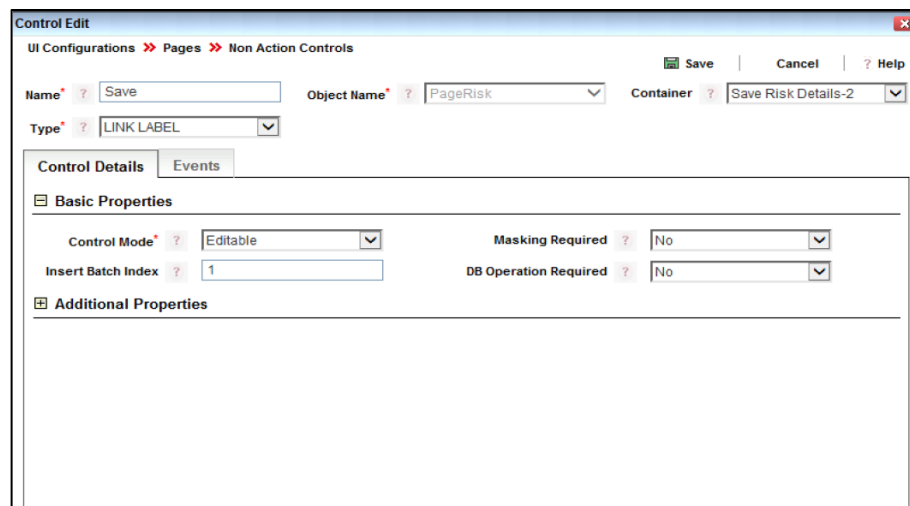
10. Click **Save**.

## 9.1.6 Defining Controls within the Save Risk Details Container

### 9.1.6.1 Defining Save Control

We will create a Link Label control within the container by the name Save.

1. From the *Page Maintenance* window of your page, click **New** in the *Action Fields* toolbar. The *Add Action Controls* window is displayed.
2. Enter the **Name** as "Save".
3. Select **Object Name** as "PageRisk", which is the name of the Page that you created.
4. Select **Container** as "Save Risk Details", which is the name of the Container that you created.
5. Select **Type** as LINK LABEL.
6. Select **Control Mode** as Editable. See the following screenshot:



Control Edit

UI Configurations >> Pages >> Non Action Controls

Save Cancel Help

Name\* ? Save Object Name\* ? PageRisk Container\* ? Save Risk Details-2

Type\* ? LINK LABEL

Control Details Events

Basic Properties

Control Mode\* ? Editable Masking Required ? No

Insert Batch Index ? 1 DB Operation Required ? No

Additional Properties

7. Click the *Events* tab and click **Add Events**.
8. Select **Event Name** as “onClick” from the drop-down list and **Function** as “SaveContainerAsDraft”.

The screenshot shows the 'Add Action Controls' dialog box with the 'Events' tab selected. At the top, there are three dropdown menus: 'Name' (set to 'Save'), 'Object Name' (set to 'PageRisk'), and 'Container' (set to 'Save Risk Details-2'). Below these is a 'Type' dropdown set to 'LINK LABEL'. The main area has two tabs: 'Control Details' and 'Events'. The 'Events' tab is active, showing a table with one event. The table has columns for 'Event Name' and 'Function'. The event listed is 'onClick' with the function 'SaveContainerAsDraft'. There is a 'Remove' button with a red 'X' icon next to the event.

9. Click **Save**. On successful save, you will receive the confirmation message that your changes are saved.

### 9.1.6.2 Defining Cancel Control

We will create a Link Label control within the container by the name Cancel.

1. From the *Page Maintenance* window of your page, click **New** in the *Action Fields* toolbar. The *Add Action Controls* window is displayed.
2. Enter the **Name** as “Cancel”.
3. Select **Object Name** as “PageRisk”, which is the name of the Page that you created.
4. Select **Container** as “Save Risk Details”, which is the name of the Container that you created.
5. Select **Type** as LINK LABEL.
6. Select **Control Mode** as Editable. See the following screenshot:

The screenshot shows the 'Add Action Controls' dialog box with the 'Control Details' tab selected. At the top, there are three dropdown menus: 'Name' (set to 'Cancel'), 'Object Name' (set to 'PageRisk'), and 'Container' (set to 'Save Risk Details-2'). Below these is a 'Type' dropdown set to 'LINK LABEL'. The main area has two tabs: 'Control Details' and 'Events'. The 'Control Details' tab is active, showing a section for 'Basic Properties'. In this section, 'Control Mode' is set to 'Editable', 'Masking Required' is set to 'No', and 'DB Operation Required' is set to 'No'. There is also an 'Insert Batch Index' field set to '1'. Below the 'Basic Properties' section is an 'Additional Properties' section, which is currently empty.

7. Click the *Events* tab and click **Add Events**.
8. Select **Event Name** as “onClick” from the drop-down list and Function as “closeWindow”.

Name\* ? Cancel    Object Name\* ? PageRisk    Container ? Save Risk Details-2

Type\* ? LINK LABEL

Control Details    Events

Events | Add Events

Event Name	Function
<input type="checkbox"/> onClick	closeWindow

Remove

- Click **Save**. On successful save, you will receive the confirmation message that your changes are saved.

### 9.1.7 Reordering Containers within the Risk Definition Page

We will reorder the containers within the Risk Definition form.

- From the *Page Maintenance* window, click **Manage Containers** in the *Fields* toolbar. The Container Details window is displayed.
- Click **Reorder** in the *Containers* toolbar. The *Container Reorder* window is displayed.

Container Reorder Dialog

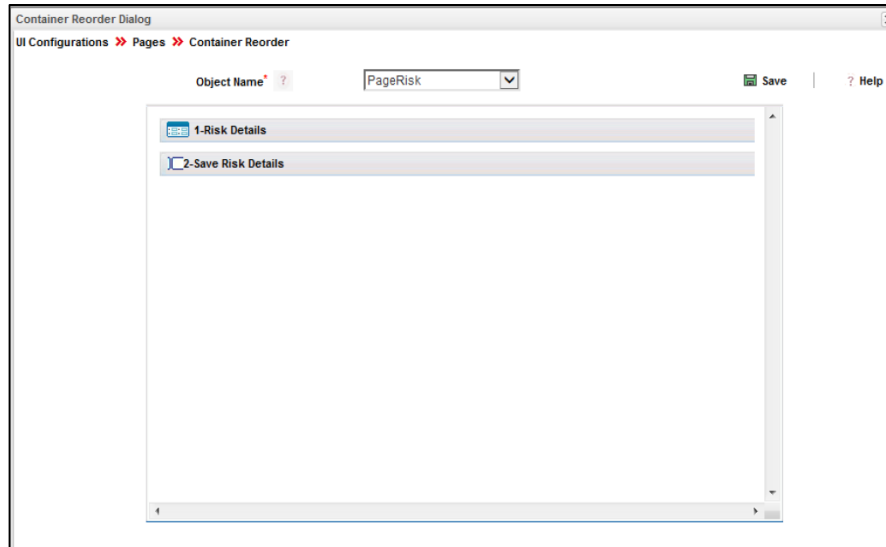
UI Configurations >> Pages >> Container Reorder

Object Name\* ? PageRisk    Save    Help

- 2-Save Risk Details
- 1-Risk Details

- Select **Object Name** as "PageRisk", which is the name of the Page that you created.
- Drag the Risk Details container and make it appear first as shown in the following screenshot.



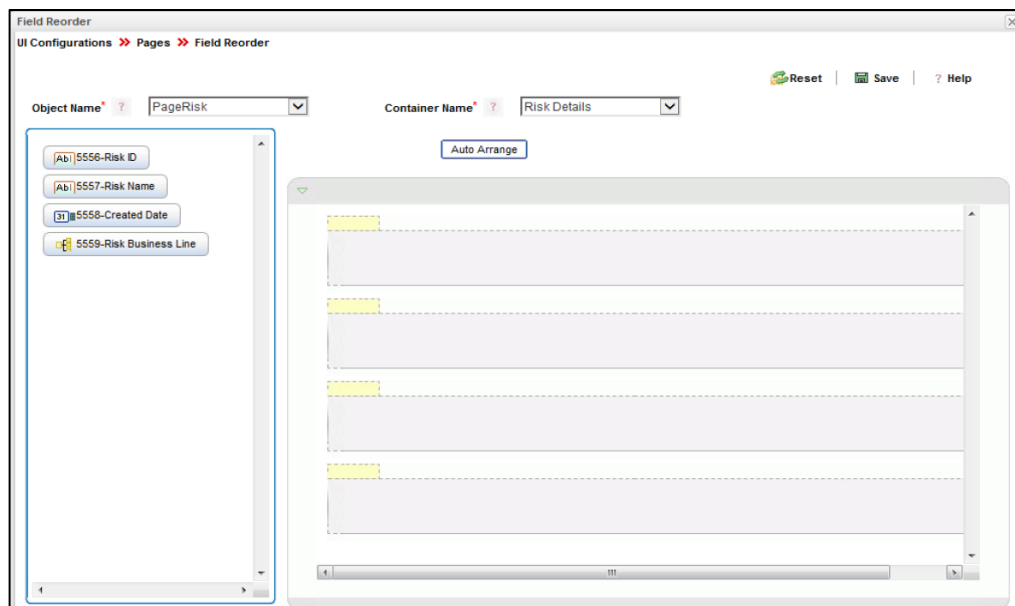


5. Click **Save**. On successful save, you will receive the confirmation message that your changes are saved.

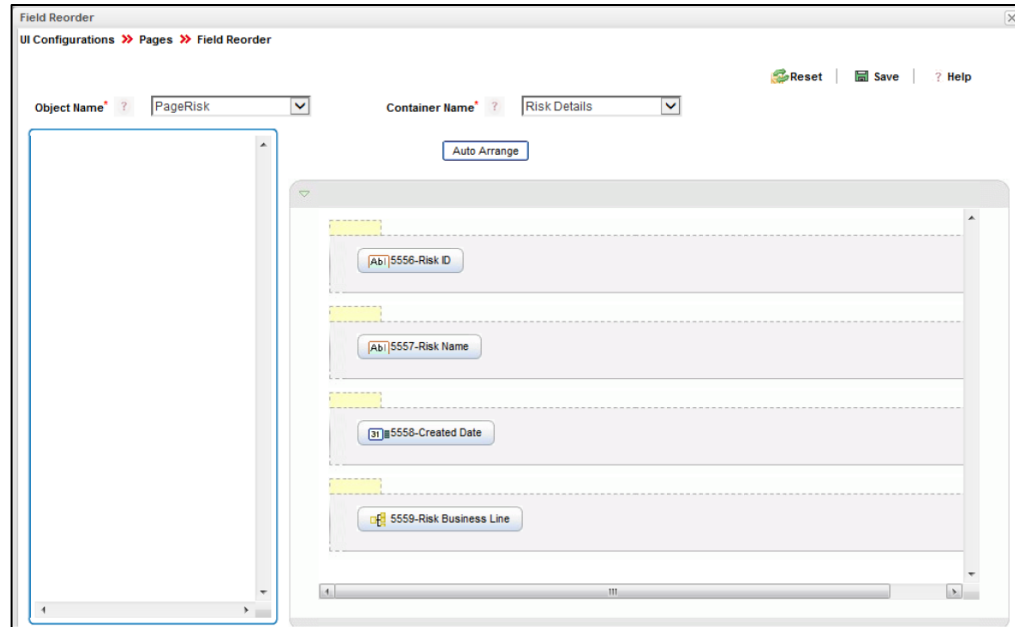
### 9.1.8 Reordering Controls within the Risk Details Container

We will reorder the controls within the Risk Details container.

1. From the *Page Maintenance* window, click **Reorder** in the *Fields* toolbar. The *Field Reorder* window is displayed.
2. Select the **Object Name** as “PageRisk” and **Container Name** as “Risk Details”. The corresponding Controls appear on the left as shown in the following screenshot:



3. Drag the controls so that each control appears in separate rows as shown in the following screenshot:

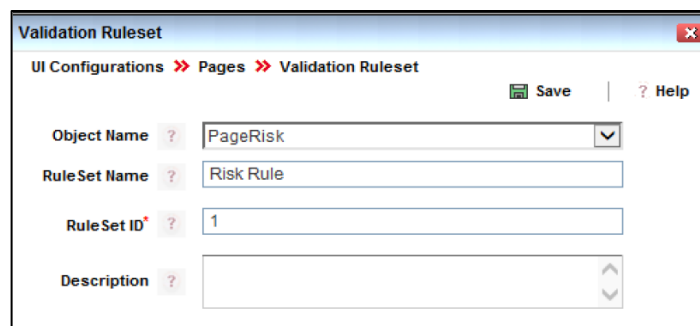


6. Click **Save**. On successful save, you will receive the confirmation message that your changes are saved.

### 9.1.9 Creating a Validation Rule

We will create a validation rule to display a message to prompt the user to enter Risk Name.


1. From the *Page Maintenance* window of your page, click **New** in the *Validation Rulesets* toolbar under *UI Validation Rules* toolbar. The *Validation Ruleset* window is displayed with the **Object Name** automatically populated.
2. Enter the **Rule Set Name** as "Risk Rule". The **Rule Set ID** is automatically populated. See the following screenshot:



3. Click **Save**.
4. Click **New** in the *Validation Rules* toolbar under *UI Validation Rules* toolbar. The *Validation Rule* window is displayed.
5. Enter **Rule Name** as "Risk Rule".
6. Select **Message**. Enter **Message** as "Please Enter Name of the Risk".

7. Select **Message Type** as Message from the drop-down list. See the following screenshot:

The screenshot shows the 'Validation Rule' dialog box. It has a title bar with a close button. Below the title bar is a breadcrumb trail: 'UI Configurations >> Pages >> Validation Rule'. To the right of the breadcrumb are 'Save' and 'Help' buttons. The main area contains several fields: 'Rule Name' with the value 'Risk Rule', 'Description' (empty), 'Condition' (empty), 'Message' with the value 'Please Enter Name of the Risk', and 'Message Type' with a dropdown menu showing 'Message'. There are also radio buttons for 'Expression' and 'Message', with 'Message' being selected.

8. Click  in the **Condition** field and form the condition by selecting the appropriate Function, Control, and Operator as shown in the screenshot.

The screenshot shows the condition builder dialog box. It has three columns: 'Functions', 'Controls', and 'Operators'. The 'Functions' column lists various actions like 'ExportGrid', 'RowClicked', 'RowClickedContainerRefresh', 'SaveContainerAsDraft', 'Search', 'StartContainerSave', 'StartContainerSaveSearch', 'StartHierSave', 'StartPromptSave', 'UpdateGrid', 'checkValidEmail', 'clearMe', 'closeAndRefreshParentForm', and 'compareDates'. The 'Controls' column lists controls like '5561-Cancel', '5560-Save', '5557-Risk Name', '5556-Risk ID', '5558-Created Date', and '5559-Risk Business Line'. The 'Operators' column lists operators like '!=', ')', '(', '=', '==', "'", '.length', and '\*'. At the bottom, there is a text box containing the condition '[~PageRisk.5557.1].length==0' and two buttons: 'OK' and 'Back'.

9. Click Ok.
10. Click **Save**. On successful save, you will receive the confirmation message that your changes are saved.

### 9.1.10 Associating the Validation Rule with Save Control

We will associate the validation rule with the Save control.

1. From the *Forms Maintenance* window, select "FormRisk" form and select "Save" container, and select "Save" control.
2. Click **Edit** in the *Controls* toolbar. The *Control Maintenance* window appears.
3. Click the *Parameters* tab and click **Add Parameter**.

4. Enter **ID** as “1”.
5. Enter **Name** as “validationRuleSet”.
6. Enter **Scope** as “Static”.
7. Enter **Value** as “100”. See the following screenshot.

ID	Name	Scope	Value	Remove
1	infodom	Request	infodom	Remove
1	segment	Request	segment	Remove
1	gsUsrid	Request	gsUsrid	Remove
1	User	Request	User	Remove
1	validationRuleSet	Static	100	Remove

Save Back

8. Click **Save**.

### 9.1.11 Defining a Menu by the name, Risk

We will create a Menu called **Risk** which when clicked will invoke the “RiskPage” page.

1. From the LHS menu, expand **UI Configurations** and click **Menu**. The *UI Configurations Menu* window is displayed.
2. Click **New** in the *Menu Items* toolbar. The *Menu Maintenance* window is displayed. The Menu ID is seen generated automatically.
3. Enter the **Menu Name** as “Risk”.
4. Enter **Menu Order** as “1”.
5. Select the **Application** from the drop-down list.
6. Enter the **Page Name** as “Risk Definition Page”. This is the **Name** of the Page we created earlier. See the following screenshot.

Menu Maintenance

UI Configurations > Menu > Menu Maintenance

Menu Details | Function Mapping | Layout Parameters | Form Parameters

Menu Definition

Menu ID: 1467304158392

Menu Name: Risk

Parent Name: [ ]

Menu Level: 0

Menu Order: 1

Is it Home: [N]

Page Name: Risk Definition Page - ST\_OFS\_O

Application: [ ]

Module Name: [ ]

Sub Module Name: [ ]

Save Back

- To associate a function to the menu, click the *Function Mapping* tab.
- Click **Map New Function**.
- Enter the **Function Code** as Risk Identification (RII\_MNU). See the following screenshot.

The screenshot shows the 'Menu Maintenance' window with the 'Function Mapping' tab selected. Below the tabs, there is a 'Map New Function' button. A table lists the function code 'Risk Identification(RII\_MNU)' with a 'Remove' button next to it. At the bottom, there are 'Save' and 'Back' buttons.

- Click **Save**. On successful save, you will receive the confirmation message that your changes are saved.

### 9.1.12 Generating Menu

We will generate the “Risk” menu we created.

- From the LHS menu, expand **Generate** and click **Menu**. The *Generate Menu* window appears.

The screenshot shows the 'Generate Menu' window in the Oracle FS AAI Forms Manager. The left sidebar shows the 'Generate' menu expanded, with 'Menu' selected. The main area contains a table of menu items with columns: Menu ID, Application, Menu Name, Level, Order, Access Path, and Menu Mode. Below the table are fields for 'Label' and 'Comments', and a 'Generate' button at the bottom.

Menu ID	Application	Menu Name	Level	Order	Access Path	Menu Mode
1115	OFS_OR	Home	0	0	Home	Development
1114	OFS_OR	Home	0	0	Home	Development
1500	OFS_OR	Home	0	1	Home	Development
1457608539009	OFS_OR	Inbox	0	1	Inbox	Development
1	OFS_OR	Inbox	0	1	Inbox	Development
1457671724688	OFS_OR	Inbox	0	1	Inbox	Development
1457636235251	OFS_OR	Insurance	0	1	Insurance	Development
14576944707608	OFS_OR	Landing page	0	1	Landing page	Development
1457336682172	OFS_OR	OpinionPollMenu	0	1	OpinionPollMenu	Development
144179659671	OFS_OR	Test menu 50	0	19	Test menu 50	Development

- Click **Generate**.

### 9.1.13 Generating Page

1. From the LHS menu, expand **UI Configurations** and click **Pages**. The *Pages* window is displayed.
2. Select the “Risk Definition Page” that you want to generate and deploy. The *Page Maintenance* window is displayed.

The screenshot displays the 'Page Maintenance' window for the 'Risk Definition Page'. The left sidebar shows the navigation menu with 'UI Configurations' expanded and 'Pages' selected. The main window has a top bar with 'Page Maintenance' and a breadcrumb 'UI Configurations > Pages > Risk Definition Page'. Below this is a 'Page Definition' section with a 'Page Details' table and a 'Page Block/Objects' table. The 'Page Details' table has fields for Name, Code, Description, Module, SubModule, and Help. The 'Page Block/Objects' table has columns for Object Name, Object Code, Object Type, and Block Name. Below these are sections for 'Fields' (Non Action Fields, Action Fields, Advanced Fields) and 'UI Validation Rules' (Validation Rulesets, Validation Rules). The 'Non Action Fields' section shows a table with columns for Field Name-ID, Field Type, Object Name, and Container Name-ID. The 'Action Fields' section shows a table with columns for Field Name-ID, Object Name, Container Name-ID, Field Type, Refresh, and Refresh Components. The 'Advanced Fields' section shows a table with columns for Field Name-ID, Field Type, Object Name, and Container Name-ID. The 'Validation Rulesets' section shows a table with columns for Rule Set Name - ID and Object Name. The 'Validation Rules' section shows a table with columns for Rule Name, Rule Condition, and Rule Expression/Consequence.

Name	Code	Description	Module	SubModule	Help
Risk Definition Page	ST_OFB_OR_10011				

Object Name	Object Code	Object Type	Block Name
PageRisk	PageRisk	Form	Form

Field Name-ID	Field Type	Object Name	Container Name-ID
Created Date-5558	DATE	PageRisk	Risk Details-1
Risk Business Line-5559	HIERARCHY	PageRisk	Risk Details-1
Risk ID-5556	TEXTBOX	PageRisk	Risk Details-1
Risk Name-5557	TEXTBOX	PageRisk	Risk Details-1

Field Name-ID	Object Name	Container Name-ID	Field Type	Refresh	Refresh Components
Cancel-5561	PageRisk	Save Risk Details-2	LINK LABEL		
Save-5560	PageRisk	Save Risk Details-2	LINK LABEL		

Field Name-ID	Field Type	Object Name	Container Name-ID
---------------	------------	-------------	-------------------

Rule Set Name - ID	Object Name
Risk Rule-1	PageRisk

Rule Name	Rule Condition	Rule Expression/Consequence
Risk Rule	[~PageRisk.5557.1]length=0	[RENDERER.ROR1447]

3. Click **Generate**.