

BPEL Workflow User Guide

# Oracle FLEXCUBE Universal Banking

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BPEL Workflow User Guide  
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# 1. Preface

## 1.1 Introduction

This manual is designed to help you quickly get acquainted with the basic features of the workflow layer using Business Process Execution Language (BPEL) in Oracle FLEXCUBE.

## 1.2 Audience

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

Role	Function
Corporate Customer Service Executive	Collection of applications
Trade Finance Executive	Updation of details of contracts
Trade Finance Manager	Verification and authorization of contracts
Compliance Executive	Performance of compliance details of all parties in a contract
Compliance Manager	Verification of compliance check carried out by Compliance Executive

## 1.3 Documentation Accessibility

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

## 1.4 Abbreviations

The following abbreviations are used in this User Manual:

Abbreviation	Description
BPEL	Business Process Execution Language
WF	Workflow

## 1.5 Organization

This manual is organized into the following chapters:

Chapter	Description
Chapter 1	<i>About this Manual</i> gives information on the intended audience. It also lists the various chapters covered in this User Manual
Chapter 2	<i>BPEL - An Overview</i> provides a basic understanding of the workflow and its features.





<b>Chapter 3</b>	<i>Operations</i> explains the various actions that you can perform to suit your requirements of look and feel of the BPEL workflow.
<b>Chapter 4</b>	<i>Function ID Glossary</i> has alphabetical listing of Function/Screen ID's used in the module with page references for quick navigation.

## 1.6 Related Documents

- The Security Management System User Manual
- Procedures User Manual

## 1.7 Glossary of Icons

This User Manual may refer to all or some of the following icons:

<b>Icons</b>	<b>Function</b>
	Exit
	Add row
	Delete row
	Option List

---

## 2. BPEL – An Overview

### 2.1 Introduction

The Business Process Execution Language (BPEL) workflow layer allows you to define a workflow for handling different transactions. The front-end user interface of this layer allows you to capture details required for the transactions and sends them to Oracle FLEXCUBE for processing.

Each transaction in BPEL can be configured as a process. At certain points in a process, input from the user-end is required. The input could be in the form of data to initiate or enrich a transaction or to authorize an existing transaction. To facilitate this, human tasks are generated by the BPEL engine as and when required during the process. These human tasks are associated with a Function ID. When a user initiates a task, the different user roles associated to the Function ID are assigned to the task.

Also, each process (transaction) passes through the workflow layer in stages. Access to each stage is restricted to users who have the requisite rights. Once a task has been initiated or completed for a particular stage, it is placed in the relevant queue or task list (explained later). To proceed further with the process, a user - with relevant rights - needs to acquire it under his/her user ID.

---

#### **Note**

System supports the co-existence of multiple composite versions of BPMN (Business Process Models and Notations) and BPEL process models. In BPMN processes, you can query the first task of a process by querying with the conversation id. You can customise the BPMN process using the BPM Composer.

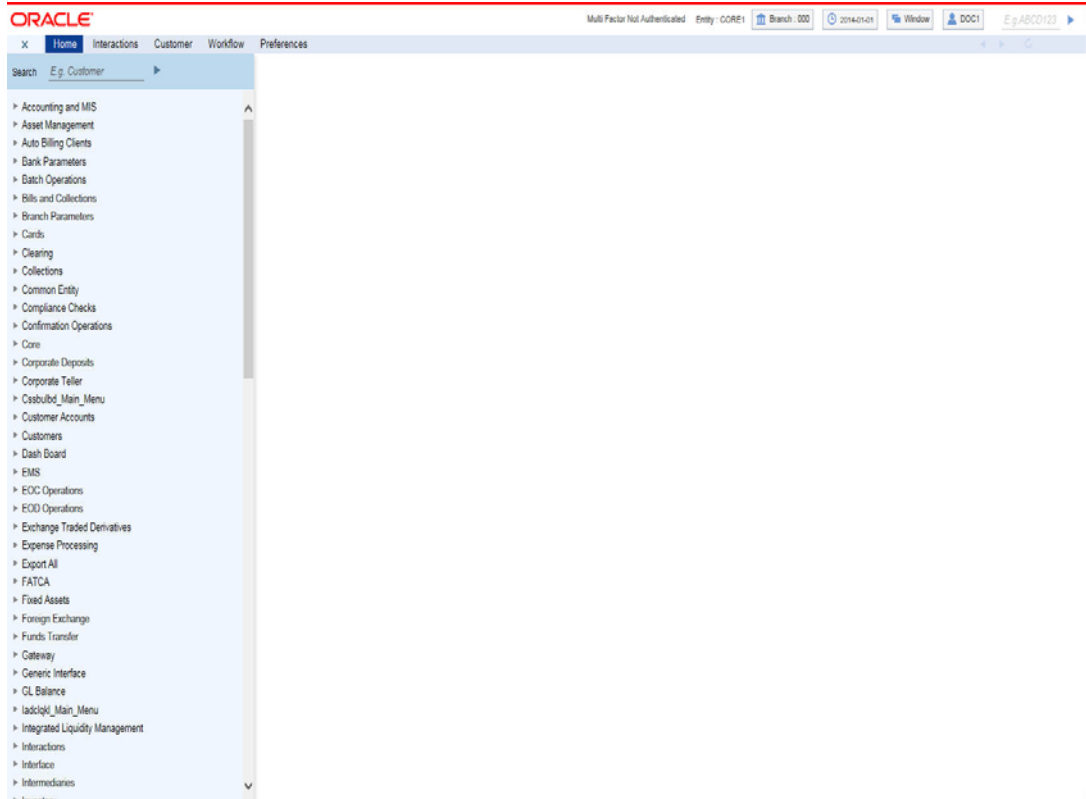
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This chapter contains the following sections:

- [Section 2.2, "Landing Page"](#)
- [Section 2.3, "Navigating the Task Menu"](#)
- [Section 2.4, "Navigating the Workflow Menu"](#)

## 2.2 Landing Page

When you log into the application, the Landing Page, as shown below, is displayed:-

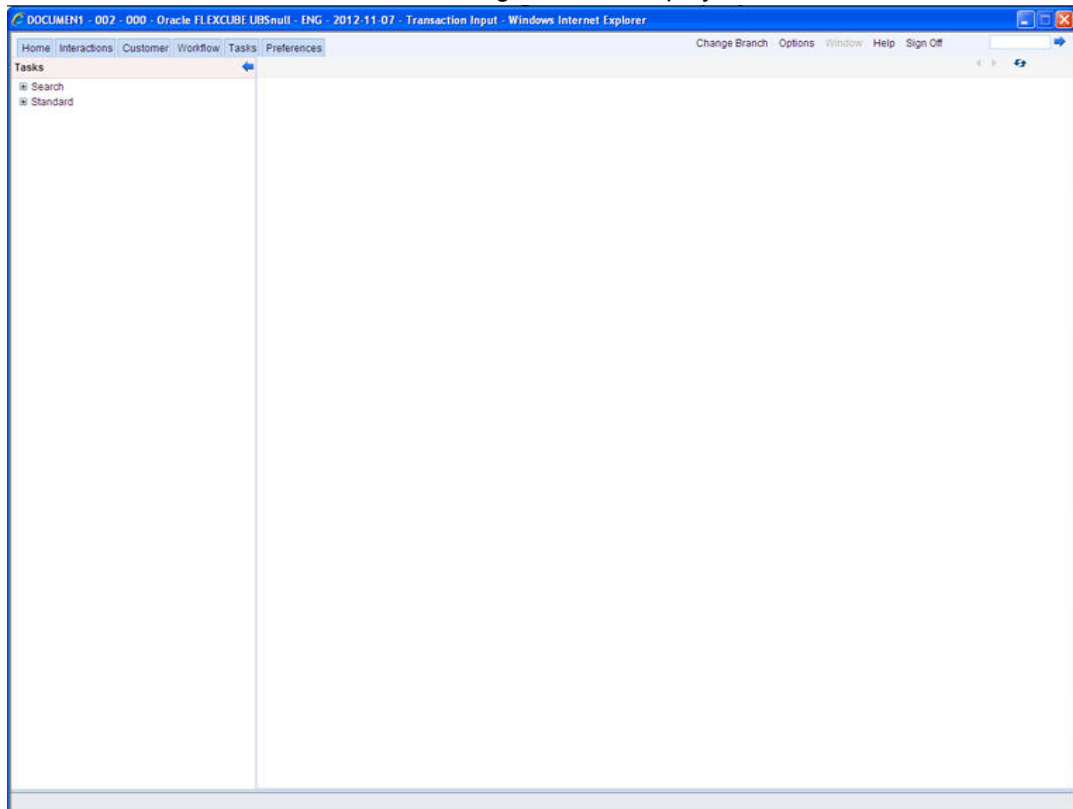


The following options are available to you in this screen:

- Menu
- Interactions
- Customer
- Workflow
- Tasks
- Preferences

## 2.3 Navigating the Task Menu

Click on 'Tasks' in the menu. The following screen is displayed:

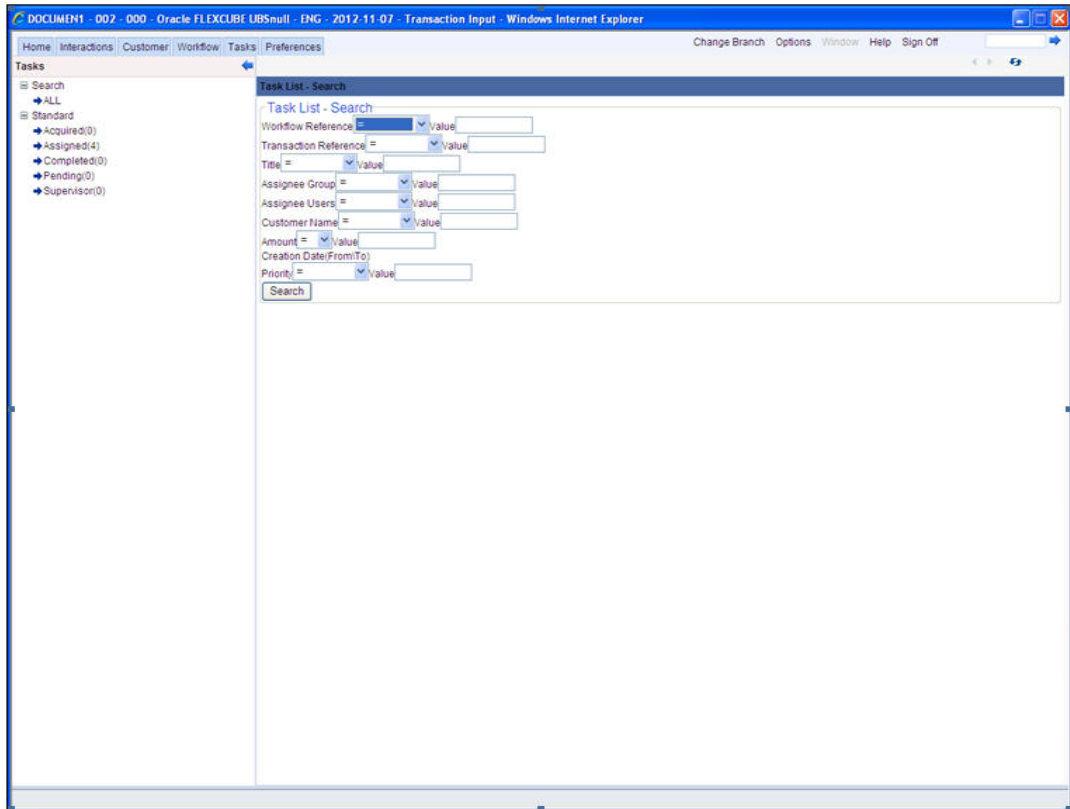


The system displays all the main menu items that you have maintained in the 'Landing Page Configuration' screen along with the 'Search' and 'Standard' main menu items on the left hand side of the screen.

You can query existing workflow tasks by clicking 'Search' and then choosing the relevant link under it. Under 'Search', you are provided the option of searching tasks across all process flows (the 'All' link) or for specific process flows. The fields available under the link 'All' are

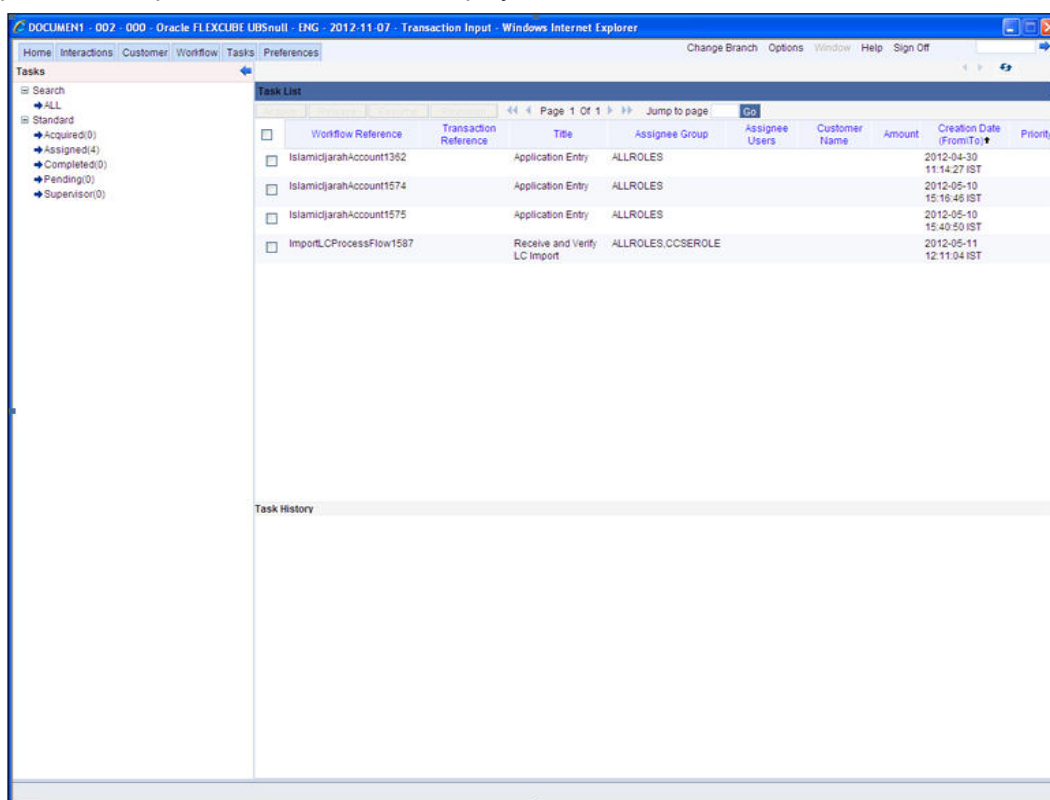


pre-defined in the system and the link 'All' is readily available. The other process flow specific links are displayed only if you maintain them in the 'Landing Page Configuration' screen.



Refer the section 'Configuring Landing Page' under 'Operations' in this user manual for further details.

Specify the basis for your search and click the 'Search' button. All the tasks that meet the parameters specified are fetched as displayed in the screen below:



If you do not specify any search parameter before clicking 'Search' button, all the tasks will be displayed.

Under the 'Standard' menu, the system displays the following sub-menus and the number of tasks against each of these sub-menus:

- Acquired
- Assigned
- Completed
- Pending
- 

When you click a sub-menu, the different process flows (transactions) for the sub-menu and the number of tasks outstanding for each process are displayed. Choose the process flow for which you require details and click on it. Details for all the tasks under the corresponding queue are shown in the Task List pane. When you click a task, the relevant details are displayed in the Transaction History pane (below the Task List pane)

The workflow actions that you can perform for a task are:

### **Acquire/Release**

After a task is assigned to a group, you, as a user, can further process the task only if you acquire it. Select the transaction and click 'Acquire' button. The task will then be moved from the group queue to your task list. You can release the task that has already been acquired by clicking 'Release' button..

## **Reassign**

A task can be re-assigned only by a supervisor to any of his subordinates. If you have the requisite rights, you can select the transaction and click 'Reassign' button in your task list. This is done when a contract is transferred from the maker of the contract to another user for further operations.

## **Resume**

A task that has been suspended can be resumed when you click the 'Resume' button in your task list. You can then continue with the suspended task.

The system also gives you the option of carrying out the same action on many tasks simultaneously. To do this, you are required to select all the tasks that you want, by checking the box at the beginning of each row. The operations common to all the tasks are listed at the top of the Task Pane. You can select the appropriate one. The chosen action will be implemented for all the selected tasks. For example, after choosing the tasks that you require, you can acquire all of them in bulk (if the 'Acquire' operation is allowed for all the tasks).

## **Copy**

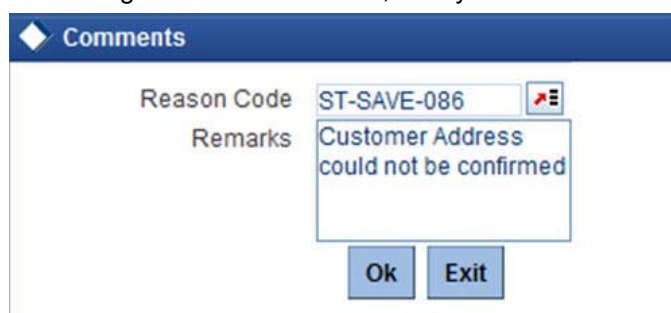
A selected task can be copied by clicking on 'Copy' button in your task list.

## **Escalate**

System allows you to escalate a task to a supervisor or a higher authority. Follows are the types of escalations:

- Auto Escalation - When a task remains acquired yet un-attended at the end of the specified time span, system automatically escalates the task to the user's supervisor. If the supervisor does not take any action for the same time period, then system escalates the task to the second level in the hierarchy. This process goes on for a per-defined number of levels.
- Manual Escalation - In case a task requires an action from a higher authority, you can manually escalate a task to the user's supervisor by clicking the 'Escalate' button in the task list.

On clicking the 'Escalate' button, the system invokes the 'Comments' screen.



The system prompts to enter the following details:

### **Reason Code**

Select the reason code from the adjoining option list. This list displays all valid reason codes maintained as 'Common'.

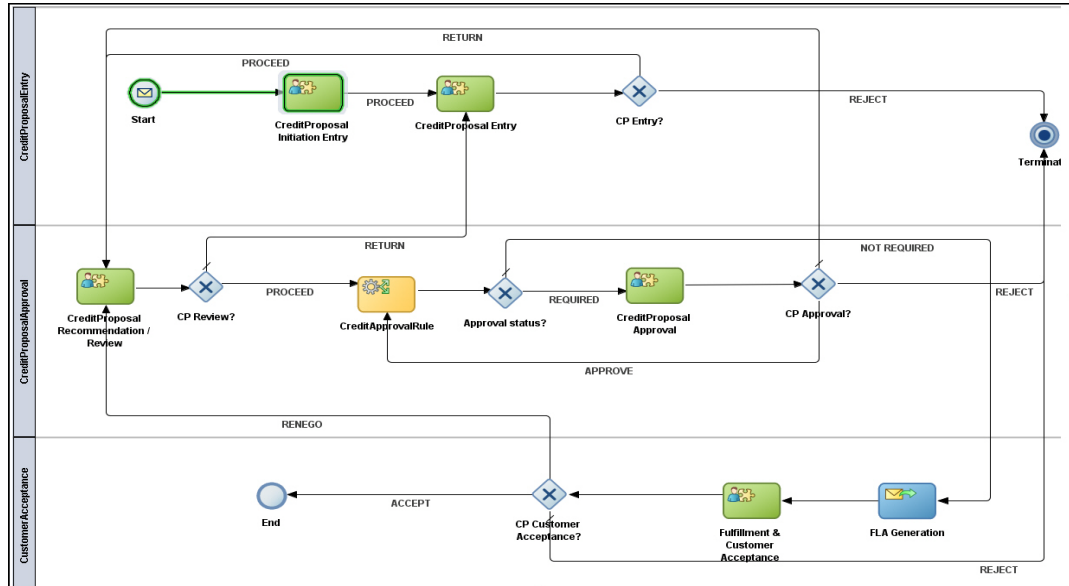
### **Remarks**

Specify the reason for escalation here.

On escalation, the task appears under the 'Escalated' option in the Supervisor queue. When the supervisor opens the escalated task, system displays the reason of escalation and remarks as an information message.

## Stage Status

In BPMN processes, the system allows you to view the flow diagram and the current stage of a particular task. On clicking the 'Stage Status' button in the task list, system displays the flow diagram, for the selected task, in a separate window.

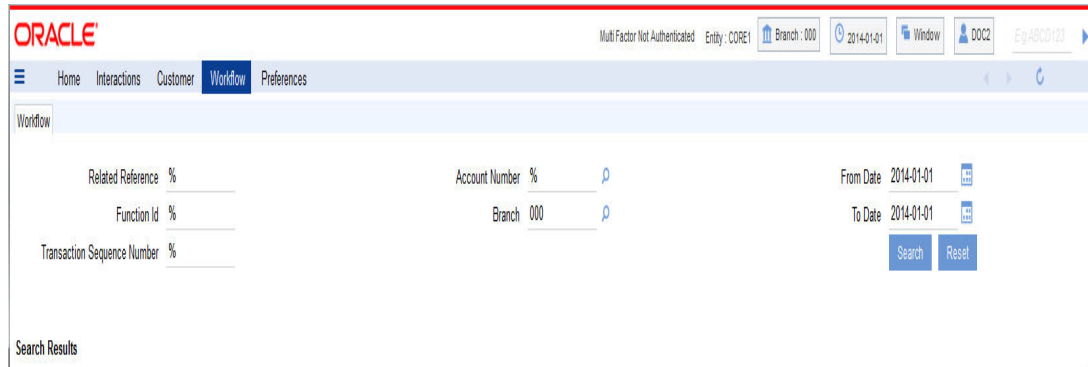


### Note

System supports the Stage Status image only for BPMN Processes.

## 2.4 Navigating the Workflow Menu

When you click the 'Workflow' option in the Landing Page, the following screen is displayed:



The screen displays the different queues of the workflow process and the number of tasks against each queue. The workflow queues are as follows:

- Pending
- Assigned
- Failed
- Unassigned

- Completed
- Reversed
- Sent to Host
- Tanked
- Untanked
- Approved
- Auth History
- Sending for Authorization

To view the details of a particular queue, click on the queue. The details of all the tasks under the queue specified will be displayed.

You can select the task on which you wish to perform an action to complete the process flow.

You can also carry out a search for tasks based on parameters of your choice by clicking the 'Search Tasks' option available in this screen. The following screen will be displayed;

The screenshot displays the Oracle Workflow search interface. At the top, the Oracle logo is on the left, and user information is on the right: 'Multi Factor Not Authenticated', 'Entity: CORE1', 'Branch: 000', '2014-01-01', 'Window', 'DOC2', and 'EgABC'. Below this is a navigation bar with 'Home', 'Interactions', 'Customer', 'Workflow', and 'Preferences'. The main content area is titled 'Workflow' and contains a search form with the following fields: 'Related Reference %', 'Function Id %', 'Transaction Sequence Number %', 'Account Number %', 'Branch 000', 'From Date 2014-01-01', and 'To Date 2014-01-01'. There are 'Search' and 'Reset' buttons. Below the search form is a section labeled 'Search Results'.

You can specify the parameters for the query and click on the 'Search' button. All records satisfying the parameters are displayed. You can now choose the task on which you wish to perform some action.

## 3. Operations

### 3.1 Introduction

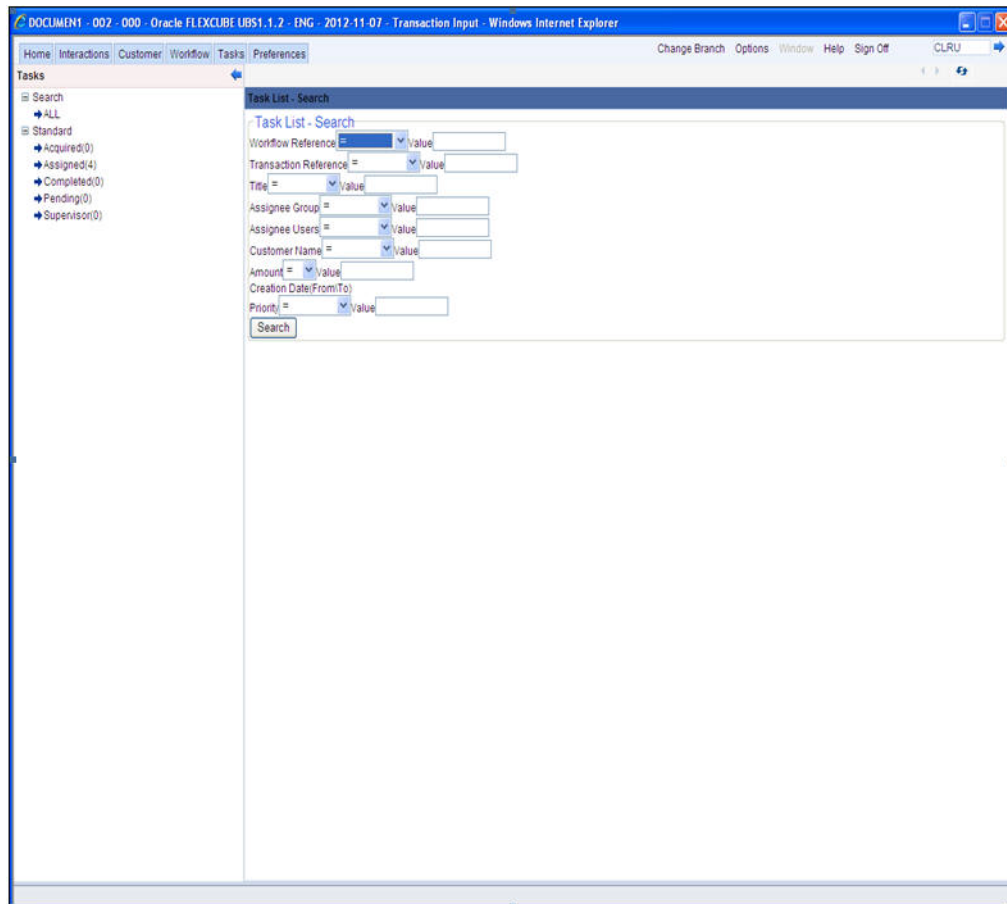
Oracle FLEXCUBE allows you to configure Queues, Landing and Sub-stages in the workflow layer to suit your bank's requirements. It also keeps track of duplication of transactions on the basis of the fields that you indicate.

This chapter contains the following sections:

- [Section 3.2, "Configuring Landing Page"](#)
- [Section 3.3, "Configuring Queues"](#)
- [Section 3.4, "Configuring Sub-Stages"](#)

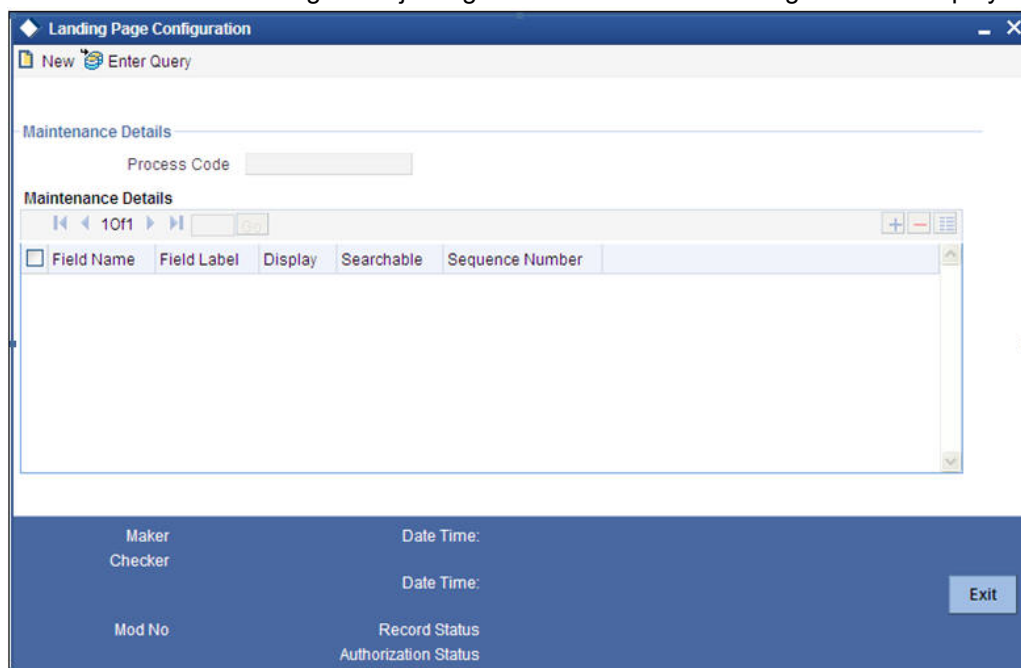
### 3.2 Configuring Landing Page

The page that is displayed on invoking the application is called as the 'Landing Page'. As mentioned above, you can launch a search for a particular task on the basis of the fields displayed in the Task List pane under the 'All' sub-menu in the 'Search' main menu item. The fields under this sub-menu (All) are pre-defined in the system and represent all process flows. The search fields under the 'All' sub-menu are displayed as shown in the screen below:



You can also choose to maintain additional fields for specific process flows. When you maintain additional fields for search operation for a process flow, the process flow is displayed under the 'Search' main menu and all the fields (pre-defined and the additional ones maintained for the process flow) become available for you to search on.

You can define the process-flow specific additional fields in the 'Landing Page Configuration' screen, which you can invoke by typing SMDLNDPG' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button. The following screen is displayed:



Here, you can capture the following details:

#### **Process Code**

Specify the function ID associated with the process work flow for which you are defining additional details.

#### **Field Name**

Select the field name which should appear in the Task List pane when you carry out a search for a task under the process flow mentioned above.

#### **Field Label**

Specify the name that should be displayed in the Task List pane.

#### **Display**

Check this box if the value of the field specified should be displayed as part of task details when you click on a task. This is applicable only when the 'Process Code' field is 'specified as 'All'.

#### **Searchable**

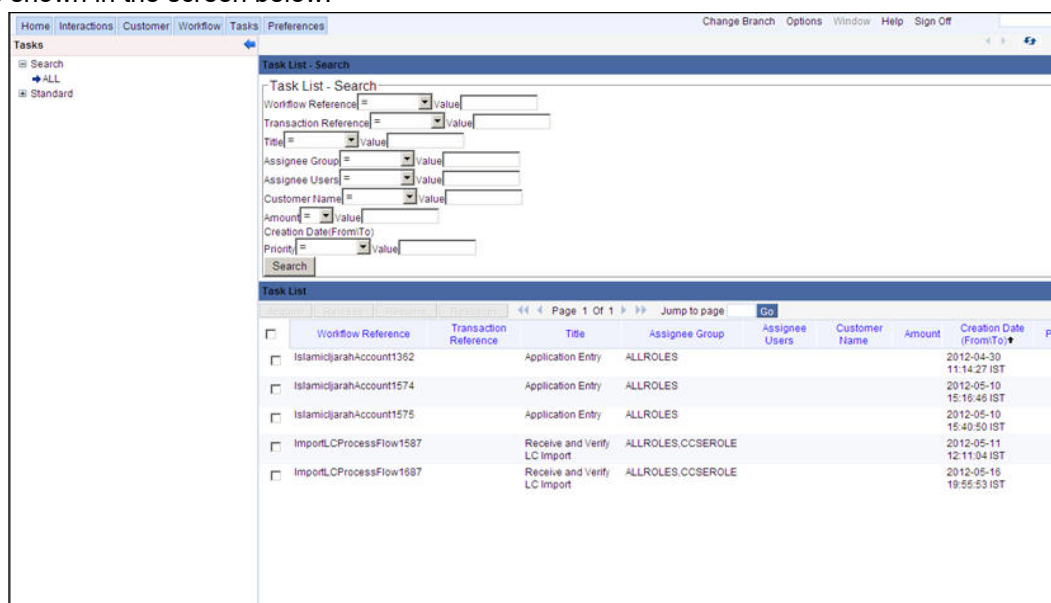
Check this box to indicate that the field should be made available for searching tasks. This facility is available for any 'Process Code'.

#### **Seq No**

Specify the order of display for the field.

For instance, if you have maintained the fields 'Currency' and Product ID as an additional field for the Export LC process flow, you can see these fields along with the ones available under

the 'All' sub-menu, when you click the 'Export LC' queue under the 'Search' main menu item as shown in the screen below:



### 3.3 Configuring Queues

A queue represents a set of human tasks that are grouped on the basis of the common characteristics they share. For instance, you could have groups based on whether the tasks have been completed, deleted or the type of transaction

You can define the basis for grouping for each queue in the 'Queue Maintenance' screen. To invoke this screen, type 'SMDQUEMT' in the field at the top right corner of the Application tool bar and click the adjoining arrow button. The following screen is displayed:

In this screen, you are required to specify the following details:

#### **Queue ID**

Specify a unique identification code for the queue.

#### **Queue Type**

Indicate the type of tasks that should be displayed for the queue you are defining. Select one of the following values from the adjoining drop-down list:

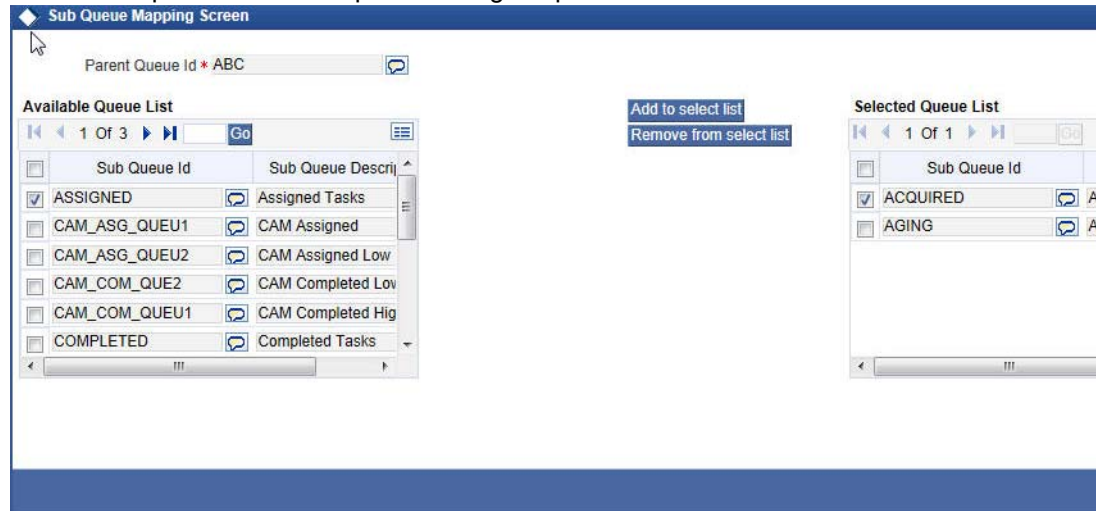
- Editable tasks: Tasks where the user will be allowed to modify existing data.
- Read-only Tasks: Tasks where the user can only view existing information.
- Normal Tasks – All the tasks for which the user has rights (editable/read-only)
- Supervisor – All tasks pertaining to the all the subordinates of the user.
- Current stage – The current stage of a process instance in which the user has performed at least one task.
- Dashboard - Select this queue type to define the queue as a dashboard. Dashboard queues will not be displayed in the queue navigation tree in the landing page.
- Audit - Select this option to define this queue as an audit queue.

#### **Sub Queues**

The system displays the names of sub queues mapped to this queue.



You can map additional sub queues using 'Map Sub Queues' button.



Available Queue List displays the sub queue IDs available for selection. You can add one or more sub queues to the Selected Queue List using 'Add to select list' button. Identify the required sub queues, check the adjoining check box and click 'Add to select list' button. The selected queues are added to Selected Queue List.

You can also remove a sub queue from the Selected Queue List. From the Selected Queue List, identify the queue to remove, check the adjoining check box and click 'Remove from select list' button. The selected queues are removed from the list.

You can view the sub queues under the respective parent queues in the queue navigation tree.

### Queue Criteria

Specify the criteria to be used to filter all tasks. The criteria specified here and the queue type you have indicated earlier determine the tasks that are displayed under each queue.

You can also associate Function IDs to queues by specifying them here. If you do so, only those Function IDs that have been associated can be accessed by the user. If there is no such association in the criteria, all Function IDs will be made available for the queue.

### Filter Column

Indicate the basis for filtering the tasks.

### Operator

Indicate the operator.

### Filter Value

Specify the value to be considered for filtering.

### Others

If 'Filter Value' chosen is 'Others', you can specify the value here.

### Language Code

Indicate the language code to be used for the queue ID.

### Main Menu

Indicate the name of the group under which the queue should be placed.

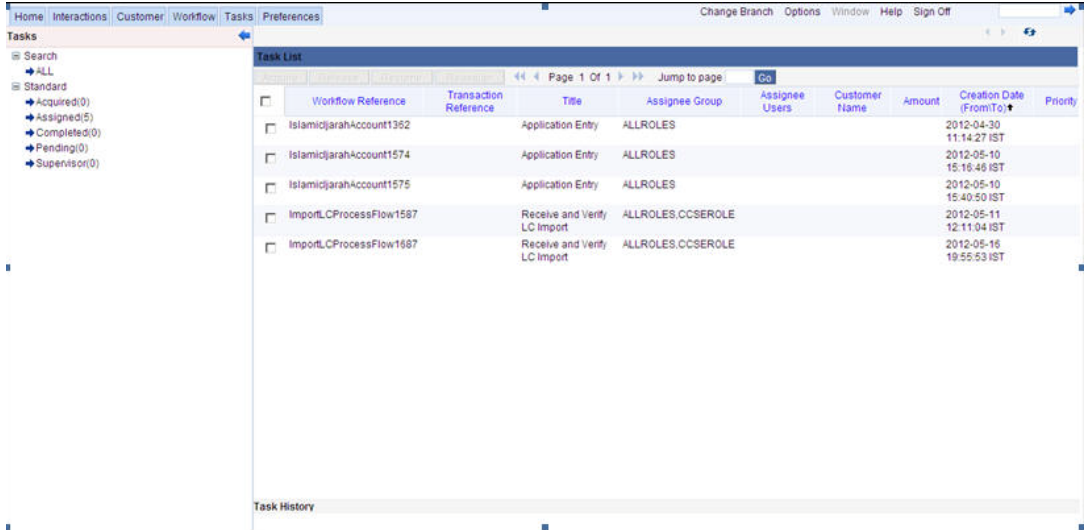
### Sub-Menu

Specify the name for the queue. This will appear under the Main Menu.

### Description

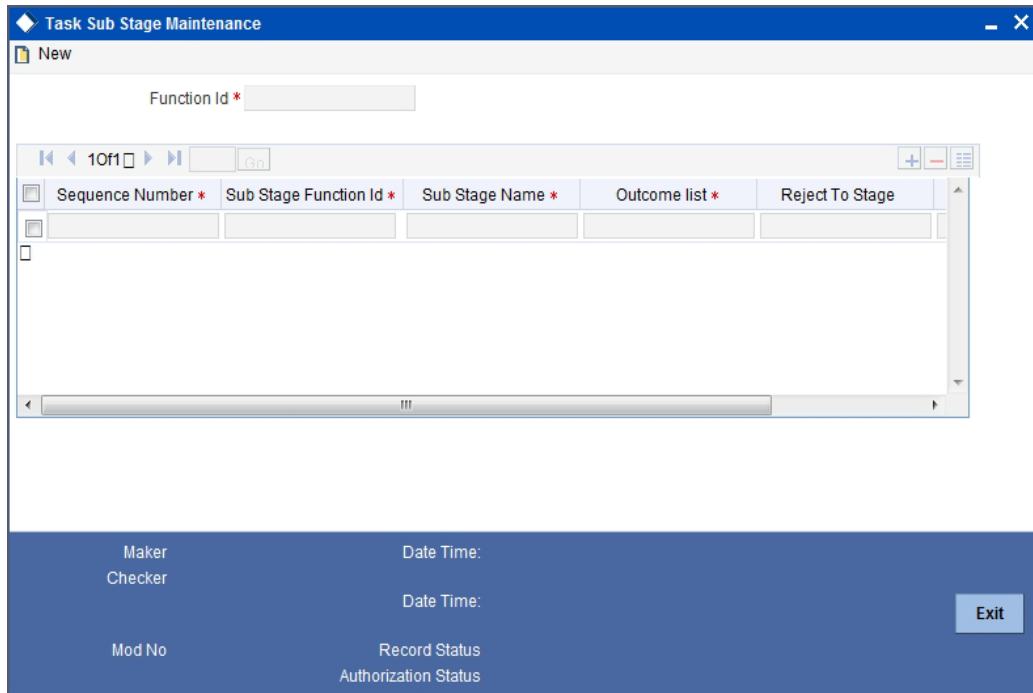
Specify a relevant description that will be displayed when you point the mouse on the Sub-Menu.

Workflow places the tasks that meet the criteria specified for each queue as shown below:



## 3.4 Configuring Sub-Stages

In the BPEL workflow layer, there are several points at which human tasks are generated. These tasks can be further divided into sub-stages which have entry conditions, exit outcomes etc. You can capture these details in the 'Task Sub Stage Maintenance' screen. You can invoke this screen by typing 'SMDSUBST' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button. The following screen is displayed:



You are required to maintain the following details in this screen:

**Function ID**

Specify the Function ID associated with the human task for which you are defining sub-stages. The adjoining option list displays all valid function IDs available in the system. You can select the appropriate one.

**Seq No**

The system displays the sequence number for the current sub-stage.

**Sub Stage Function Id**

Specify the Function ID for the sub-stage. The adjoining option list displays all valid function IDs available in the system. You can select the appropriate one. The roles and the screen displayed for the sub-stage are fetched accordingly. This can be the same as the main Function ID for the task.

**Sub Stage Name**

Specify a unique name for the sub-stage.

**Outcome List**

Specify the possible outcomes allowed for this sub-stage. You can have any of the following:

- **MOVENXT:** If this is chosen, the current Function ID screen will be closed and the process will move on to the next sub-stage in sequential order
- **AUTOMOVENXT:** If this option is selected, the task will go to the next stage. The next sub-stage will be acquired automatically (provided the user has the relevant rights). The Function ID of the next sub-stage will be displayed in the screen.
- **MOVEPREV:** If this is chosen, the task will be moved to the previous stage mentioned or to the sub-stage sequence number specified in the 'Reject To Stage' field.

To facilitate this configuration, you need to map the first sub-stage to the Function ID of the human task. Also, you will be allowed to select only the 'MOVEPREV' option for the last sub-stage you have defined.

**Entry Rule**

Specify the conditions that need to be fulfilled for this sub-stage to be initiated. The specification is done in the same syntax as that for the queue configuration. If the criteria specified are satisfied, then the transaction comes to this sub-stage. If not, it moves to the next sub-stage.

**Reject To Stage**

This is the sub-stage to which a task is sent to in case the task is rejected at any point in the sub-stage process. If you do not specify any value for this, a rejected task will be sent to the previous level.

---

## 4. Function ID Glossary

### **s**

SMDLNDPG .....3-2

SMDQUEMT ..... 3-3

SMDSUBST ..... 3-5