

## **Oracle® Fusion Middleware**

Performing Self Service Tasks with Oracle Identity Manager

11g Release 2 (11.1.2.3.0)

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Primary Authors: Anju Poovaiah, Debapriya Datta

Contributing Author:

Contributor: Sanjay Rallapalli

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# Preface

The Oracle Fusion Middleware User's Guide for Oracle Identity Manager introduces you to Oracle Identity Self Service tasks, and delegated administration functionalities.

## Audience

This guide is intended for users who can log in to Oracle Identity Self Service and perform self-service operations, request for roles and resources, and manage various approval, provisioning, and certification tasks. This guide is also intended for delegated administrators who can perform identity administration tasks and define authorization policies to delegate administration privileges. In addition, a user with any role can refer to this guide for an introduction and conceptual information about Oracle Identity Manager.

## Documentation Accessibility

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

### Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

## Related Documents

For more information, see the other documents in the Oracle Identity Management documentation set for this release.

- *Oracle Fusion Middleware Administering Oracle Identity Manager*
- *Oracle Fusion Middleware Developing and Customizing Applications for Oracle Identity Manager*
- *Oracle Fusion Middleware Installation Guide for Oracle Identity and Access Management*
- *Oracle Fusion Middleware Enterprise Deployment Guide for Oracle Identity Management*
- *Oracle Fusion Middleware High Availability Guide*
- *Oracle Fusion Middleware Administrator's Guide for Oracle Access Management*

- *Oracle Fusion Middleware Administrator's Guide for Oracle Adaptive Access Manager*
- *Oracle Fusion Middleware Developer's Guide for Oracle Adaptive Access Manager*

## Conventions

The following text conventions are used in this document:

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

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## What's New In This Guide

This section summarizes the new features and significant changes in *Performing Self Service Tasks with Oracle Identity Manager* in the Oracle Fusion Middleware 11g Release 2 (11.1.2.3.0).

Follow the pointers into this guide to get more information about the features and how to use them. This document is the new edition of the formerly titled *Oracle Fusion Middleware User's Guide for Oracle Identity Manager*.

### **Updates in January 2019 Documentation Refresh for 11g Release 2 (11.1.2.3.0)**

This revision of *Performing Self Service Tasks with Oracle Identity Manager* contains bug fixes and editorial corrections.

### **Updates in July 2018 Documentation Refresh for 11g Release 2 (11.1.2.3.0)**

This revision of *Performing Self Service Tasks with Oracle Identity Manager* contains bug fixes and editorial corrections.

### **Updates in April 2018 Documentation Refresh for 11g Release 2 (11.1.2.3.0)**

This revision of *Performing Self Service Tasks with Oracle Identity Manager* contains bug fixes and editorial corrections.

### **Updates in March 2018 Documentation Refresh for 11g Release 2 (11.1.2.3.0)**

This revision of *Performing Self Service Tasks with Oracle Identity Manager* contains bug fixes and editorial corrections.

### **Updates in October 2017 Documentation Refresh for 11g Release 2 (11.1.2.3.0)**

This revision of *Performing Self Service Tasks with Oracle Identity Manager* contains bug fixes and editorial corrections.

## Updates in January 2017 Documentation Refresh for 11g Release 2 (11.1.2.3.0)

This revision of *Performing Self Service Tasks with Oracle Identity Manager* contains the following updates:

- After you apply bundle patch 11.1.2.3.170117, the **Only High-Risk Entitlements Outside Roles** option is available in the Content Selection page of the New Certification wizard. See step 10 of [Section 13.3.1.1, "Creating a User Certification Definition"](#).
- After you apply bundle patch 11.1.2.3.170117, the **Include entitlements provisioned by access policy** option is available in the Base Selection page of the New Certification wizard. See [Section 13.3.1.4, "Creating an Entitlement Certification Definition"](#).

This revision also contains bug fixes and editorial corrections.

## Updates in July 2016 Documentation Refresh for 11g Release 2 (11.1.2.3.0)

This revision of *Performing Self Service Tasks with Oracle Identity Manager* contains bug fixes and editorial corrections.

## Updates in April 2016 Documentation Refresh for 11g Release 2 (11.1.2.3.0)

This revision of *Performing Self Service Tasks with Oracle Identity Manager* contains bug fixes and editorial corrections.

## New and Changed Features for 11g Release 2 (11.1.2.3.0)

Oracle Identity Manager 11g Release 2 (11.1.2.3.0) includes the following new and changed self service features for this document.

- New skin in Identity Self Service provides a new look and feel. It contains three Home pages: Self Service, Compliance, and Manage. See [Chapter 1, "Overview of the Oracle Identity Self Service Interface"](#).
- The options available in Self Service home page and how to use them are listed in [Part II, "Working with Self Service"](#).
- The options available in Compliance home page and how to use them are listed in [Part III, "Working with Compliance"](#).  
The Compliance home page is available when Oracle Identity Manager is deployed with Identity Auditor mode enabled.
- The options available in Manage home page and how to use them are listed in [Part IV, "Working with Identity Administration"](#).
- Various self service and identity administration tasks can be performed by using wizards available in Identity Self Service. Some examples of such tasks are accessing request for self and others, and creating roles. See subsequent sections for information about these tasks. For example, see [Chapter 16, "Managing Roles"](#) for information about creating roles by using the Create Role wizard.
- The access catalog has a new interface and flow. See [Chapter 6, "Requesting Access"](#).

- The access catalog provides the Start Date and End Date fields for specifying the grant duration of roles, accounts, and entitlements to self or other users. See [Section 6.4, "Adding and Removing Grant Duration"](#). More information about this feature is available in [Chapter 5, "Managing Access for Self"](#), which describes temporal grants for roles, entitlements, and accounts that allows users to specify grant duration.
- The Unified Inbox can be used to manage pending approval tasks, provisioning tasks, certification tasks, and audit violation tasks. See [Section 7, "Using the Unified Inbox"](#).
- When Oracle Identity Manager is deployed with Identity Auditor mode enabled:
  - You can access and take action on pending violation tasks. See [Chapter 11, "Managing Pending Violations"](#).
  - The Identity Audit feature is used to detect Segregation of Duties (DoS) violations. See [Chapter 14, "Managing Identity Audit"](#).
  - Various role life cycle information can be viewed, such as role history and role analytics. See [Chapter 16, "Managing Roles"](#).
- The new authorization model provides flexibility to create a new admin role and select the capabilities for these admin roles. See [Chapter 18, "Managing Administration Roles"](#). In addition, admin role capabilities and self capabilities available in Oracle Identity Manager are listed in [Appendix B, "Functional Capabilities"](#).
- Password policy management includes setting password policy rules, and creating, searching, and deleting password policies. See [Chapter 19, "Managing Password Policies"](#).

## Other Significant Changes in this Document for 11g Release 2 (11.1.2.3.0)

For 11g Release 2 (11.1.2.3.0), this guide has been updated in several ways. Following are the sections that have been added or changed.

- Revised procedures for accessing Oracle Identity Self Service. See [Chapter 3, "Accessing Oracle Identity Self Service"](#).
- Moved information about setting challenge questions and responses to [Chapter 3, "Accessing Oracle Identity Self Service"](#).
- Added information about resetting password for a user. See [Chapter 15, "Managing Users"](#).
- Added information about certification and Certification Dashboard. See [Chapter 13, "Managing Identity Certification"](#).
- Added information about running Oracle Identity Manager reports. See [Chapter 20, "Running Reports"](#).
- Moved information about personalizing Self Service to [Appendix A, "Personalizing Self Service"](#).
- Moved information about request process flow and request stages to *Administering Oracle Identity Manager*. See "Understanding Workflow Rules" section of that book.
- Removed information about managing attestation tasks and the Attestation Dashboard as attestation is not supported in this release.



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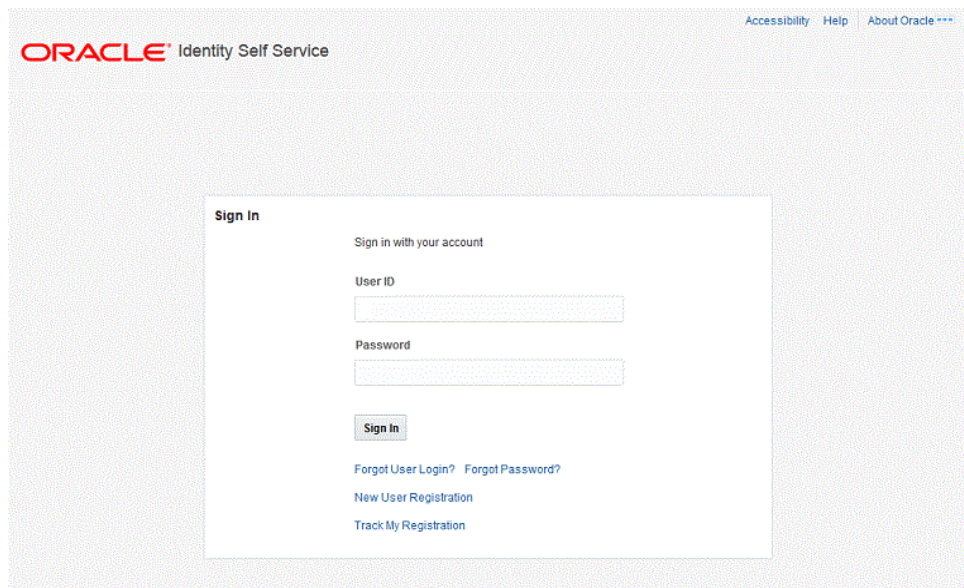
# Overview of the Oracle Identity Self Service Interface

This chapter will help you familiarize with Oracle Identity Self Service. This will enable you to quickly find the information you need and complete the required tasks easily.

Oracle Identity Self Service provides user self-service and delegated identity administration features that serve most of the users of Oracle Identity Manager. This console provides access to the self service console and unauthenticated self service console.

Oracle Identity Self Service provides user self-service and delegated identity administration features that serve most of the users of Oracle Identity Manager. This console provides access to the self service console and unauthenticated self service console. [Figure 1-1](#) shows the page to access authenticated self service and unauthenticated self service consoles.

**Figure 1-1 Login Page of Oracle Identity Self Service**



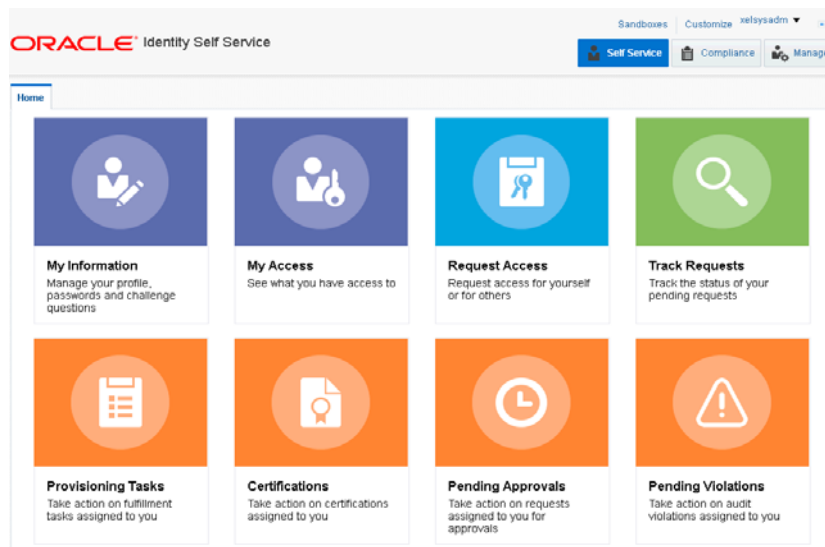
Identity Self Service supports access to unauthenticated self-service tasks in the Unauthenticated Self Service Console. Users who have not authenticated into, or not logged in to Identity Self Service can access the Unauthenticated Self Service Console by clicking the [Forgot User Login?](#), [Forgot Password?](#), [New User Registration](#), or [Track My Registration](#).

My Information links. This console enables an unauthenticated user to retrieve a forgotten user login ID or password, register to the Oracle Identity Manager environment, and track the registration.

For more information, see [Chapter 2, "Registering to Oracle Identity Manager"](#) and [Chapter 3, "Accessing Oracle Identity Self Service"](#).

Access to authenticated self-service tasks is available by logging in to Identity Self Service shown in [Figure 1-2](#).

**Figure 1-2 Home Page of Oracle Identity Manager Self Service Console**



The interface of Identity Self Service is composed of the following areas:

- [Top Panel](#)
- [Self Service Home page](#)
- [Compliance Home Page](#)
- [Manage Home page](#)

## 1.1 Top Panel

This area consists of the following links in the upper-right-hand corner of the interface:

- [Accessibility](#)
- [Sandboxes](#)
- [Customize](#)
- [Help](#)
- [Inbox](#)
- [Sign Out](#)

### 1.1.1 Accessibility

Identity Self Service has been designed to adhere to the standards set in Section 508 of the Rehabilitation Act and the World Wide Web Consortium's Web Content Accessibility Guidelines 2.0 AA (WCAG 2.0 'AA').



When you click the Accessibility link in the upper right corner of the page, the Accessibility dialog box is displayed. You can select none or more from the following options in the Accessibility dialog box:

- **I use a screen reader**

Select this option if you want to use a screen reader.

- **I use high contrast colors**

Select this option to use the high-contrast color scheme that you have specified in your operating system, rather than using the default color scheme specified in Identity Self Service.

- **I use large fonts**

Select this option if you want to change the font size for easy viewing and readability.

## 1.1.2 Sandboxes

When you click the Sandboxes link in the upper right corner of the page, the Manage Sandboxes page is displayed. Sandboxes allow you to isolate and experiment with customization without affecting other users environments.

To customize, create and/or activate a sandbox. After customizations are complete you can publish the sandbox to make the customizations available to other users.

## 1.1.3 Customize

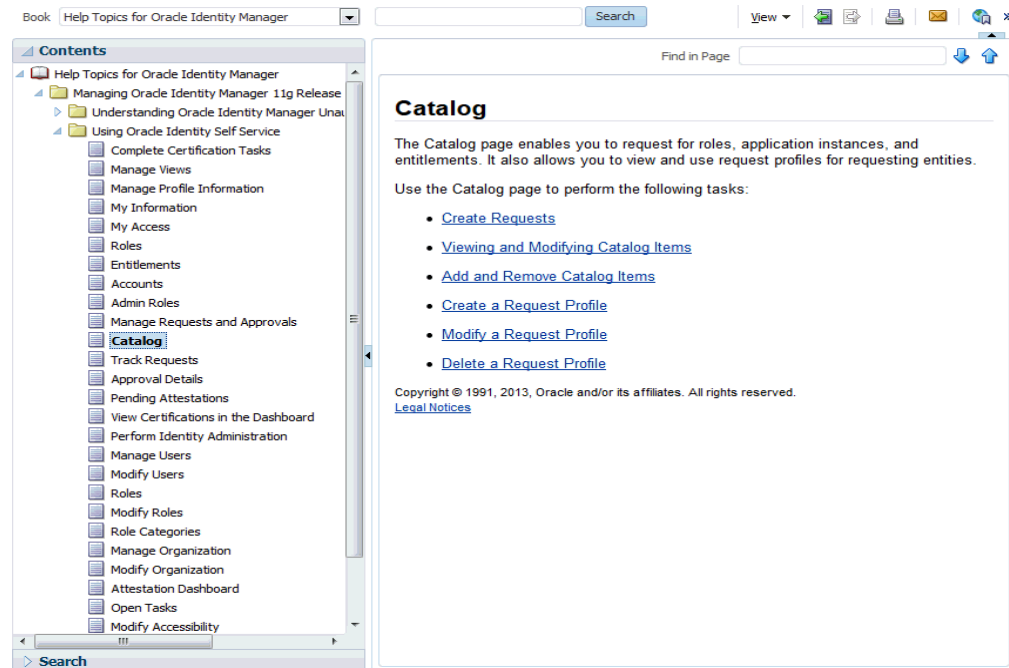
When you click the Customize link in the upper right corner of the page, the WebCenter Composer is opened. The currently active page opens in customization mode. You can customize the page in design or source view.

## 1.1.4 Help

Identity Self Service includes a help system. Clicking the Help link opens the help system in a new window. In addition, Identity Self Service provides context-sensitive help. For example, if you are in the Catalog page and click the Help link, then help content related to the request catalog is displayed.

[Figure 1–3](#) shows a sample page and default layout of the help interface.

**Figure 1–3 Layout of the Help Interface**



The default view of the help system consists of three panes:

- [Top Pane](#)
- [Lower Left Pane](#)
- [Lower Right Pane](#)

#### 1.1.4.1 Top Pane

The top pane consists of the following:

- **Book drop-down list:** From this drop-down list you can select one of the following values:
  - **Help Topics for Oracle Identity Manager:** Select this value to open all help topics for Oracle Identity Manager.
  - **User's Guide for Oracle Identity Manager:** Select this value to open the online help version of Oracle Fusion Middleware User's Guide for Oracle Identity Manager.
  - **Custom Help Topics for Oracle Identity Manager:** Select this value to open any custom help topics.
- **Search field:** Specify any word or term to search for in the help system.
- **View:** From the View menu, you can select any one of the following options:
  - **Maximize Reading Pane:** Collapses the lower left pane to maximize the reading pane, which is the lower right pane.
  - **Restore Default Window Layout:** Restore the current layout of the help system to the default layout.
  - **Contents:** Restores the lower left pane to display the Contents region along with the help topics, if it is not already being displayed.

- **Search:** Displays the Search region in the lower left pane. In the Search region, you can search for help topic and the search results are displayed in a tabular format. Here are a few guidelines on performing a search:
  - \* Search criterion specified in the Search field can be made case sensitive by selecting the **Case Sensitive** option.
  - \* To define your search precisely, you can specify the boolean operators & (for AND), | (for OR), ! (for NOT) in your search criterion, select the **Boolean expression** option, and then click **Search**.
  - \* To search for help topics containing all words specified in the search criterion, select **All words**.
  - \* To search for help topics containing any word specified in the search criterion, select **Any words**.
- **Show permanent link for this topic page:** If you want to save the link to a help topic for future reference, then from the View menu, select **Show permanent link for this topic page**. In the dialog box that is displayed, right-click the link to the help topic and select one of the following options:
  - \* **Bookmark This Link:** Adds the help topic URL to the browser bookmarks.
  - \* **Copy Link Location:** Copies the help topic URL to the clipboard.
- **Toolbar:** The help system contains a toolbar that provides action buttons for certain tasks. You can view the name of the button by moving the mouse pointer over the button. The following buttons are available:
  - **Go back one page:** Takes you back to the page containing the previous help topic.
  - **Go forward one page:** This icon is enabled only if you have clicked the **Go back one page** icon. Clicking the **Go forward one page icon** takes you to the next page in the sequence of topics you visited.
  - **Print this topic page:** Prints the current help topic.
  - **Email this topic page:** Drafts an email with a link to the help topic currently displayed in the help system. This draft can be sent to the desired email recipient.
  - **Link to this topic page:** Saves the link to a help topic for future reference by right-clicking the link to the help topic in the dialog box that is displayed, and then selecting one of the following options:
    - \* **Bookmark This Link:** Adds the help topic URL to the browser bookmarks.
    - \* **Copy Link Location:** Copies the help topic URL to the clipboard.

#### 1.1.4.2 Lower Left Pane

The left pane contains the Contents and Search regions. By default, the Contents region is expanded. The Contents region displays links to help topics depending on the option you select from the Book drop-down list in the top pane. You can click the arrow icon beside Contents to expand or collapse the Contents region.

### 1.1.4.3 Lower Right Pane

The lower right pane displays any help topic that you search for or open from the Contents and Search regions in the lower left pane. This pane is also known as the reading pane.

## 1.1.5 Inbox

Use the Inbox to perform the following:

- View and manage approval tasks that correspond to requests that are in the user or administrator's queue to be approved.

For more information, see [Chapter 8, "Managing Pending Approvals"](#).

- View and manage certification review tasks assigned to the logged-in user.

For more information, see [Chapter 7, "Using the Unified Inbox"](#) and [Chapter 10, "Managing Certification Review Tasks"](#).

## 1.1.6 Sign Out

Click the Sign Out link to log out of Identity Self Service.

## 1.2 Self Service Home page

The Self Service Home page provides you a snapshot of the various functions in Identity Self Service. The following Services are available:

- [My Information](#)
- [My Access](#)
- [Request Access](#)
- [Track Request](#)
- [Provisioning Tasks](#)
- [Certifications](#)
- [Pending Approvals](#)
- [Pending Violations](#)

### 1.2.1 My Information

Use this page to view and modify personal details of your profile such as changing passwords, setting challenge questions and response, and so on.

For more information, see [Chapter 4, "Managing Profile Information"](#).

### 1.2.2 My Access

This page displays entities such as Roles, Entitlements, Accounts, and Admin Roles, to which you have access. In this section, you can request for, remove, or modify entities.

For more information, see [Chapter 5, "Managing Access for Self"](#).

### 1.2.3 Request Access

Use this page to request for access for self or for other users.

For more information, see [Chapter 6, "Requesting Access"](#).

## 1.2.4 Track Request

Use this page to search for and track requests raised by you and requests raised for you. You can search for requests based on request ID, status, request type, requested date, beneficiary, and requester.

For more information, see ["Tracking a Request"](#) on page 6-12.

## 1.2.5 Provisioning Tasks

Use this page to take action on fulfillment tasks assigned to you.

For more information, see [Chapter 9, "Managing Provisioning Tasks"](#).

## 1.2.6 Certifications

Use this page to review and take action on pending certification review tasks.

For more information, see [Chapter 10, "Managing Certification Review Tasks"](#).

## 1.2.7 Pending Approvals

Use this page to take action on requests assigned to you for approvals.

For more information, see [Chapter 8, "Managing Pending Approvals."](#)

## 1.2.8 Pending Violations

Use this page to take action on identity audit policy violations assigned to you.

For more information, see [Chapter 11, "Managing Pending Violations"](#).

## 1.3 Compliance Home Page

The Compliance Home page provides the links to identity certification and identity audit features of Oracle Identity Self Service. This page is displayed only when the identity audit feature is enabled. See ["Enabling Identity Audit"](#) on page 14-7 for information about enabling the identity audit feature.

The Compliance Home page contains the following regions:

- [Identity Certification](#)
- [Reports](#)
- [Identity Audit](#)

### 1.3.1 Identity Certification

This region provides the following options:

- **Dashboard:** Click this to open the Certification Dashboard that provides an overview of new, in-progress, and completed certifications and allows administrators to effectively manage certification review campaigns in the system.
- **Certification Configuration:** Click this to open the Certification Configuration page that enables you to set default options in Oracle Identity Self Service that are used during certification creation based on the type of certification.

- **Definitions:** Click this to open the Certification Definitions page that enables you to create and manage certification definitions and launch certification campaigns.
- **Event Listeners:** Click this to open the Event Listeners page that enables you to create and manage event listeners for event-based certifications.
- **Risk Configuration:** Click this open the Risk Configuration page that enables you to set default item risk levels that you can assign to roles, application instances, and entitlements.

For information, see [Chapter 12, "Using Identity Certification"](#) and [Chapter 13, "Managing Identity Certification"](#).

## 1.3.2 Reports

This sections contains Identity Audit Reports. For more information, see "[Policy Violation Reports](#)" on page 14-7.

In order for Identity Audit Reports to work, Oracle BI Publisher must be configured. For more information, see "Configuring Reports" in *Developing and Customizing Applications for Oracle Identity Manager*.

## 1.3.3 Identity Audit

This region provides the following options:

- **Configuration:** Click this to open the Configuration page that provides the options to configure the general settings and set up the identity audit feature.
- **Rules:** Click this to open the Rules page to create and manage identity audit rules.
- **Policies:** Click this to open the Policies page to create and manage identity audit policies.
- **Scan Definitions:** Click this to open the Scan Definitions page that enables you to create and manage scan definitions.
- **Policy Violations:** Click this link to open the Policy Violations page that enables you to search, view, manage, and take action on identity audit policy violations via an interactive dashboard.

For information, see [Chapter 14, "Managing Identity Audit"](#).

## 1.4 Manage Home page

The Administration region contains the following:

- ["Managing Users"](#)
- ["Managing Roles"](#)
- ["Managing Organization"](#)
- ["Managing Administration Roles"](#)
- ["Managing Password Policies"](#)

### 1.4.1 Managing Users

Use this page to view and manage users. Some of the user management tasks that you can perform in this page include creating, modifying, deleting, enabling, and disabling users.

For information, see [Chapter 15, "Managing Users"](#).

## 1.4.2 Managing Roles

Use this page to view and manage roles. Some of the role management tasks that you can perform in this page include viewing, administering, creating, updating, and deleting roles.

For information, see [Chapter 16, "Managing Roles"](#).

## 1.4.3 Managing Organization

Use this page to view and manage organizations. Some of the organization management tasks include creating, viewing, modifying, and deleting organizations.

For information, see [Chapter 17, "Managing Organizations"](#).

## 1.4.4 Managing Administration Roles

Use this page to view and manage admin roles.

For information, see [Chapter 18, "Managing Administration Roles"](#).

## 1.4.5 Managing Password Policies

Use this page to view and manage password policy.

For information, see [Chapter 19, "Managing Password Policies"](#).





# Part I

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## Getting Started

This part describes the concepts related to Oracle Identity Manager.

It contains the following chapter:

- [Chapter 2, "Registering to Oracle Identity Manager"](#)
- [Chapter 3, "Accessing Oracle Identity Self Service"](#)



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# Registering to Oracle Identity Manager

This chapter discusses the following topics:

- [Submitting Registration Requests](#)
- [Tracking Registration Requests](#)

## 2.1 Submitting Registration Requests

To register yourself with Oracle Identity Manager:

1. In the Oracle Identity Self Service login page, click **New User Registration**. The User Registration page is displayed.
2. In the **Basic Information** section, enter first name, middle name, last name, email, common name, display name, and Telephone Number in the respective fields.  
  
Display name is the name of the user displayed in the UI. If not specified, then it is auto-generated while creating the user.
3. In the **Enter User ID and Password** section, enter the user login name, password, and confirm password in the respective fields.
4. In the **Select your challenge questions and answers** section, select the challenge question and set an answer for each question.

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**Note:** No default challenge questions are displayed if password policy has been configured with user-defined challenge questions, and you must provide your own challenge questions. For information about password policies, see "[Managing Password Policies](#)" on page 19-1.

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5. Click **Register**. In the confirmation message, you are provided with a tracking Registration Request Number that you can use to track the status of your registration process.

## 2.2 Tracking Registration Requests

You can track your self-registration request. If the current status indicates success, then you can go to Identity Self Service, and then enter your username and password to log in.

1. In the Identity Self Service login page, click **Track My Registration**. The Track Requests page is displayed.
2. In the Tracking ID field, enter the tracking Registration Request Number that has been assigned to your registration request. Then click **Submit**. The registration request status is displayed with the following details:
  - **Current status of the request**

Every self-registration request that is submitted has to go through approvals for it to be processed completely.

If a user tracks the current status of the request, the status is shown with a description of the stage the request is in. The status would be one of the following:

    - \* **Pending:** This state indicates that the request is submitted and the approval is pending. In case of default approval, the following status message is displayed:

"Obtaining request-level approval for registration."

If the request level approval is pending. Once the request level approval is obtained, the following status message is displayed:

"Obtaining operation-level approval for registration."
    - \* **Rejected:** This state indicates that the request is rejected during approval. The description indicates the reason of rejection. In case of default approval levels, if the request got disapproved at the request approval level, then the following status message is displayed:

"Request rejected. Please call Help-Desk."

If the request gets disapproved at the operation level or request level, then the following status message is displayed:

"Operation approval rejected for registration."
    - \* **Completed:** This state indicates that the request is completed. If all the approvals have been provided and the request is successfully completed, the following status message is displayed:

"Request has been completed."
    - \* **Failed:** This state indicates that the request is failed during submission. If the request submission is failed, the following status message is displayed:

"The request registration failed."
  - **Date**

This is the last request update date. When the request is submitted and approval is not done, the date shown is the request submission date. In all cases, the date always reflects the last update date.
  - **Tracking ID**

This is the request number to be entered to track registration status.
3. Click **Track Another Registration** to display the status of another registration request.

Or, click **Back to Login** to display the login page.

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**Note:** From this page you can only track the statuses of Self Registration Requests.

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## Accessing Oracle Identity Self Service

The login page provides the ability to log in, and provides a starting point for all unauthenticated operations. This page is displayed when you access Oracle Identity Self Service without authenticating either natively to Oracle Identity Manager or by using SSO.

Typical tasks you can perform before logging in to Identity Self Service include:

- [Connecting to Oracle Identity Self Service](#)
- [Retrieving Forgotten User Login](#)
- [Resetting Forgotten Password](#)

Challenge Question should be set by the User immediately after logging in to Identity Self Service for the first time.

- [Setting Challenge Questions and Response After First Login](#)

### 3.1 Connecting to Oracle Identity Self Service

To log in to Oracle Identity Self Service:

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**Note:**

- If Oracle Identity Manager is configured to support native authentication, then the login link redirects you to a form in which you can authenticate by using your Oracle Identity Manager username and password.
  - If Oracle Identity Manager is configured to support Single Sign-On (SSO), then the login link redirects you to the SSO application login page.
- 
- 

1. Go to the Identity Self Service login page.  
For example: `http://OIM_HOST.com:PORT/identity/`
2. In the User ID field, enter your user login.
3. In the Password field, enter your password.
4. Click **Sign In**. If you are successfully authenticated, then you are logged in and directed to the home page in the authenticated context.

The login attempt might generate an error, such as "Invalid sign in", because of the following reasons:

- **Incorrect credentials:** If the user name and password entered are not correct, then an error message is displayed. This may be because of the following reasons:
  - User login does not exist
  - Password is incorrect
  - User login exists but the user is deleted

User account will get locked if invalid login attempts exceeds maximum allowed login attempts counter. If user account gets locked, user will be allowed to login only when the lock out duration expires.

- **Locked account:** If your user account is locked, then you are not allowed to log in even if the credentials are correct.
  - **Disabled user:** If your user account is disabled, then you are not allowed to log in.
5. If your password has expired, then the Change Password form is displayed. You are not allowed to proceed to the main page of the console without changing the password. Enter a new password, and click **Submit**.
  6. If the system requires you to specify challenge responses, then specify it and click **Submit**.

Alternatively, you can click **Cancel** if you want to avoid setting challenge questions and logging on to Identity Self Service. You set challenge questions to reset your password without calling the helpdesk. Note that these challenge questions are a unique set of questions and answers. For more information about setting challenge questions and response, see [Setting Challenge Questions and Response After First Login](#).

If you attempting to access a page, for example the Pending Approvals page, and you are checking for the pending approvals from a link and you are not logged in already, then you are redirected to the login page. Follow the login instruction provided in this section to log in to Oracle Identity Manager. However, you will be directed to the page you are attempting to access, the Pending Approvals page, instead of the main page of Identity Self Service.

## 3.2 Retrieving Forgotten User Login

If you have forgotten your user login, then you can retrieve it by performing the following steps:

1. In the Identity Self Service login page, click **Forgot User Login**. The Forgot User Login page is displayed.
2. In the Email Address field, enter the email address associated with your user login.
3. Click **Submit**. An email is sent to the specified email address with further instructions.

If you enter an incorrect email address, then an error message is displayed stating that the specified user details do not exist.



### 3.3 Resetting Forgotten Password

When a user password gets locked as the result of too many invalid login attempts, it can be reset from the Identity Self Service login page. However, this option is not available in the following cases:

- User is disabled or deleted
- User is locked (for reasons other than, too many invalid login attempts)
- User has not set or has set insufficient number of challenge answers
- Applicable Challenge Policy for the user is disabled

To reset your forgotten password:

1. In the Identity Self Service login page, click **Forgot Password?**. The Forgot Password page is displayed.
2. In the User Login field, enter your user login name to allow Oracle Identity Manager to locate your user record. If this validation fails then, you cannot proceed to reset password and will have to contact System Administrator for assistance.

If validation of User Login is successful then, click **Next**. The Please answer your challenge questions page is displayed.

3. In this step, the wizard provides the challenge questions that you set during user registration to verify your user identity. Enter your responses to the challenge questions, and then click **Next**. The Please enter new password page is displayed.
4. In this step, enter the new password that you want to set, re-enter new password to confirm it, and then click **Save**. The following are the possible outcomes of these steps:
  - If Oracle Identity Manager does not find the username you provided, then an error message is displayed stating that the user account is invalid.
  - If the challenge responses specified do not match the ones set during user registration, then the following error message is displayed:
 

"The number of questions answered correctly does not match the number of correct answers required. Please ensure if all questions are answered correctly."
  - If you satisfy the identity verification criteria (in other words, identifying yourself and answering the challenge questions), but the new password failed to satisfy configured password policies, then an error message is displayed.
  - If you satisfy the identity verification criteria and the password is successfully set, then the next page is displayed with a message that the password has been changed. This also unlocks your user account if it was locked by self (not locked by the system administrator manually). Click **Back to Login** to view the login screen from where you can log in to Oracle Identity Manager.

### 3.4 Setting Challenge Questions and Response After First Login

The challenge-response service allows you to set up a series of challenge questions that are used to validate the user's identity to reset a forgotten password. Only the user should know the correct answers to the challenge questions.

Questions and answers are stored as part of the user's profile as a name-value pair list, where the name is the question, and the value is the answer to that question. For example, for user John Doe, the challenge-response set could be as follows:

Challenge	Response
What is your favorite color?	Blue
What is the name of your pet?	Rex
What is the city of your birth?	New York

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**Note:** Oracle recommends defining answers to challenge questions that cannot be guessed easily by collecting information about the user from the Internet or other public sources.

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When a user's identity needs to be validated without relying on the authentication scheme, the challenge questions are asked, and the user must provide the necessary number of correct answers. Challenge questions are set in the following way:

- System Administrator configures a pre-defined set of questions. For more information, see ["Setting Challenge Options"](#) on page 19-10.
- User configures Challenge Questions and Answers from Self Service Interface, My Information. For more information, see ["Setting Challenge Questions and Response"](#) on page 4-2.
- System Administrator and User configures Challenge Question. System Administrator can configure a pre-defined set of questions and user can configure the answers for these question from My Information tab or immediately after logging in to Identity Self Service for the first time.

When a User logs in for the first time, Identity Self Service will prompt the user to set challenge questions. To set the challenge questions and responses immediately after first login :

1. Select questions from the Question 1, Question 2, and Question 3 fields.
2. In the corresponding Answer 1, Answer 2, and Answer 3 fields, enter the answers.
3. Click **Apply**.

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**Note:** Challenge questions and responses once set are not visible in this section. If you see the following message in the Challenge Questions section, then you have already set your challenge questions and responses:

Your secret questions and answers are already set.

You can modify the challenge questions and responses that you have already set by performing the procedure described earlier in this section.

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# Part II

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## Working with Self Service

This part describes the various self service tasks that you can perform in Oracle Identity Manager.

It contains the following chapters:

- Chapter 4, "Managing Profile Information"
- Chapter 5, "Managing Access for Self"
- Chapter 6, "Requesting Access"
- Chapter 7, "Using the Unified Inbox"
- Chapter 9, "Managing Provisioning Tasks"
- Chapter 8, "Managing Pending Approvals"
- Chapter 10, "Managing Certification Review Tasks"
- Chapter 11, "Managing Pending Violations"



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## Managing Profile Information

The My Information page in Oracle Identity Self Service enables you to view and modify personal details.

To open the My Information page:

1. Log in to Identity Self Service.
2. Click the **Self Service** tab, click **My Information** box. The My Information page is displayed with sections for modifying profile attributes, changing password, setting challenge questions, viewing direct reports and their attributes, and viewing and modifying proxy users.

The My Information page has the following sections:

- [Managing Basic User Information](#)
- [Changing Password](#)
- [Viewing and Modifying Direct Reports](#)
- [Managing Proxies](#)

### 4.1 Managing Basic User Information

When you open the My Information page, your profile attributes are displayed in the Basic User Information section. If the section is not expanded by default, then click the arrow icon beside Basic User Information to expand the section.

Editable attributes are displayed in editable text boxes or appropriate UI widgets, such as lookup fields. You can provide new values and click the **Apply** button to submit a change.

When the profile is updated, a request may be submitted depending upon product configuration. If a request is submitted, the request number is displayed as part of the confirmation. The status of the request can be seen on the Tracking Requests page of Identity Self Service. For more information about requests and tracking, see [Chapter 6, "Requesting Access"](#).

After submitting the request for modifying profile attributes, you can click the down arrow icon beside Basic User Information to collapse the section.

### 4.2 Changing Password

The Change Password section allows you to reset your enterprise password. To specify a new password, enter and re-confirm the new passwords. The new password is

evaluated for compliance against the applicable password policy. If the new password does not comply with the password policies, then the password change is rejected and you are informed of the failing condition(s). If the password evaluates successfully against all policies, then the password is changed.

To change the password:

1. In the My Information page, expand the Change Password section.
2. Specify values for the following fields:
  - **Old Password:** Enter the existing password.
  - **New Password:** Enter the new password that you want to set. Click the icon to the right of the New Password field. A list of conditions to set the password is displayed. These conditions are being specified in the password policy, and you must comply with the conditions to specify a password.
  - **Confirm New Password:** Re-enter the new password.

For information about password policies, see ["Managing Password Policies"](#) on page 19-1.

3. Click **Apply**. If the old password is valid and the new password is in compliance with the password policy, then the password is changed. Otherwise, an error message is displayed.

## 4.3 Setting Challenge Questions and Response

To set the challenge questions and responses:

1. In the My Information page, expand the Challenge Questions section.
2. Select questions from the Question 1, Question 2, and Question 3 fields.
3. In the corresponding Answer 1, Answer 2, and Answer 3 fields, enter the answers.
4. Click **Apply**.

## 4.4 Viewing and Modifying Direct Reports

The Direct Reports section in the My Information page lists the direct reports of the user in the management hierarchy, in a tabular format. This section allows you to view the details of each direct report. For each user in the list, the following are displayed:

- Display Name
- User Login
- Identity Status
- Organization

If there are a large number of users as your direct reports, then you can query and find a direct report by using the Query By Example feature. For more information, see ["Using Query By Example"](#) on page A-6.

To view and modify direct reports:

1. In the My Information page, expand the **Direct Reports** section.
2. Select a user or direct report by clicking the record of the direct report.
3. From the Actions menu, select **Open**. Alternatively, click the **Open** icon on the toolbar. The details of the user is displayed in a new tab. This tab displays the

details of the user in various subtabs, such as Attributes, Roles, Entitlements, Accounts, and so on. You can click each tab to review the details of the user.

When you open the user details of a direct report, you can perform certain tasks such as enable, disable, modify, and delete the user. You can also view the details of the direct reports of the open user, and perform certain tasks for the user, who is your indirect report. For more information, see "[Modifying Users](#)" on page 15-7.

## 4.5 Managing Proxies

The Proxies section in the My Information page allows you to view and manage the proxy information. It displays the proxies currently set up within Oracle Identity Manager for you, and also allows you to view previously set up proxies. The past proxies view, which displays all proxies that were added in the past, is read-only, and no modifications are allowed.

The existing proxy view allows you to cancel an upcoming proxy whose start date is in the future. You can also edit only the end date of an in-progress proxy whose start date is in the past and end date is in future.

In the section for current proxies, you can also add new proxies. When adding new proxies, you must specify a start date, an end date, and the proxy user.

This section contains the following topics:

- [Adding a Proxy](#)
- [Editing a Proxy](#)
- [Removing a Proxy](#)

### 4.5.1 Adding a Proxy

To add a proxy:

1. In the My Information page, expand the **Proxies** section.

The **Current** section displays a list of users currently set up as your proxy. The **Past** section displays a list of past proxies.

2. In the Current section, from the Actions menu, select **Add**. Alternatively, you can click **Add** on the toolbar.

The Add Proxy dialog box is displayed.

3. For Proxy Name, select any one of the following:

- **My Manager:** To specify your manager as proxy.
- **Other User:** To specify any other user as proxy. To do so, click the lookup icon to search for the user you want to specify as proxy. Search for and select the user, and then click **Select** in the Search and select dialog box.

4. In the **Start Date** field, specify a start date. To do so, click the Select Date icon to the right of the Start Date field, and select a date from the calendar.
5. In the **End Date** field, specify an end date.
6. Click **Apply**. The proxy is added to the list of proxies in the Proxies section.

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**Note:** Oracle Identity Manager does not allow adding another proxy whose start and end dates overlap with the existing proxy.

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Oracle Identity Manager will prevent user to add proxy which will result in recursive proxy condition.

Recursive proxy condition is when, User A is proxy for User B (for a time duration, say 17th Nov to 25th Nov), User B is proxy for User C (for a time duration, say 18th Nov to 20th Nov) and during a overlapping time duration (say 19th Nov to 26th Nov) User C is proxy for User A.

An email notification is sent on adding a proxy. The add proxy notification has the following characteristics:

- The date value in the notification is always in GMT timezone.
- The start date and end date value during proxy user creation are based on Oracle Identity Manager server timezone. For example, if the start date is specified as "6/28/2013 00:00:00 PDT", then this value is converted to GMT timezone as "06/28/2013 07:00:00 AM GMT".
- The date format in the notification is always in LONG Date/Time format and cannot be modified in its notification template.

## 4.5.2 Editing a Proxy

To edit a proxy:

1. In the Current section, select a proxy that you want to edit.
2. From the Actions menu, select **Edit**. Alternatively, you can click **Edit** on the toolbar.

The Edit Details dialog box is displayed.

3. In the Proxy Name field, select **My Manager** to specify your manager as proxy. Otherwise, select **Other User** to specify any other user as proxy. You can search for the user name.

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**Note:**

- To change the proxy user, you can search only those users for which you have search permission.
  - You cannot modify the Proxy Name field for proxy that is in the "In Progress" state.
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4. In the Start Date and End Date fields, if required, specify revised dates.

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**Note:** You cannot modify the Start Date field for a proxy that is in the "In Progress" state.

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5. Click **Apply**. The edited proxy information is saved.

## 4.5.3 Removing a Proxy

To remove a proxy:

1. In the Current section, select a proxy that you want to remove.
2. From the Actions menu, select **Remove**. Alternatively, you can click **Remove** on the toolbar.



When a current proxy is deleted, its end date is set as the date when it is deleted and when a future proxy is deleted, it is removed from the system.

To remove all proxies, click **Remove All** on the toolbar, or select **Remove All** from the Actions menu.

A message is displayed asking for confirmation.

3. Click **Yes**. The selected proxy is removed from the Current section.



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## Managing Access for Self

In Oracle Identity Manager, you have access to entities, such as roles, entitlements, accounts, and admin roles. The entities to which you have access are displayed in the My Access section of the Oracle Identity Self Service. Typical tasks you perform in the My Access section are described in the following topics:

- [Managing Roles](#)
- [Managing Entitlements](#)
- [Managing Accounts](#)
- [Viewing Admin Roles](#)

**Tip:** Before you perform the steps to manage your access to entities, it is recommended that you see [Chapter 6, "Requesting Access"](#) for detailed information about requests in Oracle Identity Manager

### 5.1 Managing Roles

The Roles tab in the My Access section displays the roles assigned to you. For information on creating roles, see [Creating Roles](#).

In this tab, you can perform the following:

- [Requesting for Roles](#)
- [Removing Roles](#)
- [Modifying Role Grant Duration](#)

#### 5.1.1 Requesting for Roles

To request for roles from the My Access page:

1. Log in to Identity Self Service.
2. Click **Self Service**. Self service Home page is displayed.
3. Click **My Access** box. The My Access page is displayed.
4. Click the **Roles** tab. A list of roles assigned to you are displayed.

Click the **Granted** tab to view the roles that are granted to you. This includes both direct and indirect roles.

Click the **Pending** tab to view the roles that are pending for approval.

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**Note:** In all the tabs in the My Access page, you can refine your search by using Query By Example. For information see, "[Using Query By Example](#)" on page A-6.

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5. From the Actions menu, select **Request**. Alternatively, click **Request Roles** on the toolbar. The **Role Access Request** page opens. **Catalog** tab is displayed.
6. Select a catalog item that you want to request. You can also select multiple items in the table.  
  
If the user wants to see information about a catalog item then, click the **i** icon next to the **Add to Cart** button. A new tab with the details about the catalog item is displayed.
7. Click **Add to Cart** that is present against the catalog item.  
  
The selected items are added to the request cart.
8. If you want to remove any requested catalog item from the cart, click the **Cart** icon. The **Cart Details** page is displayed. Click **Remove** button present against the request. If you want to remove all items from the cart then, click **Remove All**.
9. Click **Checkout** or click **Next**. The **Cart Details** page is displayed.
10. Enter **Request Information**.
11. Enter Grant Duration details such as **Start Date** and **End Date** or specify if grant is effective immediately by selecting the **Grant will be effective immediately upon request completion** option.  
  
If you do not specify a value in the **Start Date** field, then the role is assigned immediately as soon as the role is created either directly or after role creation request approval.  
  
If the **Start Date** is of future then grant will happen on that day, when the *Process Pending Role Grants* job is run, which is scheduled to run daily. On the **End Date** the grant on the role is revoked when the *Process Pending Role Grants* job is run.
12. Click **Submit**.

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**Note:** Roles that are waiting for approval are not listed in the Pending tab for roles in the My Access page. The Pending tab displays the already approved roles whose starting date is for the future. When the starting date arrives, after the Process Pending Role Grant scheduled job runs, these roles are processed and displayed in the Granted tab. Roles that are not yet approved are not displayed in the Pending tab. You can use track request to view the status and details of such roles.

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## 5.1.2 Removing Roles

To remove roles assigned to you:

1. Log in to Identity Self Service.
2. Click **Self Service**. Self service Home page is displayed.
3. Click **My Access** box. The My Access page is displayed.

4. Click the **Roles** tab. A list of roles assigned to you is displayed. Select a role that you want to remove.
5. From the Actions menu, select **Remove**. Alternatively, click **Remove Roles** on the toolbar. The Remove Roles catalog page is displayed.
6. Submit the request to remove roles. The role will be removed after the request is approved.

### 5.1.3 Modifying Role Grant Duration

To modify the grant duration of the role assigned to you or to be assigned to you:

1. Log in to Identity Self Service.
2. Click **Self Service**. Self service Home page is displayed.
3. Click **My Access** box. The My Access page is displayed.
4. Click the **Roles** tab. A list of roles assigned to you is displayed. Select a role for which you want to modify the grant duration.

The grant duration fields, Start Date and End Date, are displayed in the Roles tab.

5. From the Actions menu, select **Modify Grant Duration**. Alternatively, click **Modify Grant Duration** on the toolbar. The Modify Grant Duration dialog box is displayed.
6. In the Justification box, enter a justification for modifying the start date, or end date, or both.
7. Enter values in any one or both of the following fields:
  - **Start Date:** The start date when the role will be provisioned. This must be a future date. This field is not available for modification if the role is already assigned.
  - **End Date:** The end date when the role will be revoked.
8. Click **OK**.

The Start Date and End Date fields in the Roles tab are updated with the values you specified immediately if no approver is assigned else if approver is assigned it is updated after the approval.

## 5.2 Managing Entitlements

The Entitlements tab in the My Access page displays the entitlements assigned to you. In this tab, you can perform the following:

- [Requesting for Entitlements](#)
- [Modifying Entitlements](#)
- [Removing Entitlements](#)
- [Modifying Entitlement Grant Duration](#)

### 5.2.1 Requesting for Entitlements

To request for entitlements:

1. In the My Access page, click the **Entitlements** tab. A list of entitlements assigned to you is displayed.

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**Note:**

- The Entitlements tab displays entitlements with the Provisioned status and Future Granted status. The status displayed here is entitlement status and not the account status.
  - In an upgraded deployment of Oracle Identity Manager 11g Release 2 (11.1.2.3.0), the entitlements provisioned to the users before the upgrade are not displayed in the Entitlements tab. To display the entitlements in the Entitlements tab after the upgrade, login to Oracle Identity System Administration, and run the Entitlement Assignments scheduled job. See "Predefined Scheduled Tasks" in the *Oracle Fusion Middleware Administering Oracle Identity Manager* for information about the Entitlement Assignments scheduled job.
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2. From the Actions menu, click **Request**. Alternatively, click the **Request Entitlements** button on the toolbar or action from the Accounts tab. The Catalog page is displayed.

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**Note:** You can **Request Entitlement** after Application Instance is requested, otherwise the request for entitlement will fail.

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3. Select a entitlement item that you want to request. You can also select multiple items in the list.
4. Click **Add Selected to Cart** or click **Add to Cart** beside the item to be added.  
You can add items one by one by clicking **Add to Cart** beside each item. The selected items are added to the request cart.
5. Click **Checkout** or click **Next**. The Cart Details page is displayed.
6. Enter **Request Information**.
7. Enter Grant Duration details such as **Start Date** and **End Date** or specify if grant is effective immediately by selecting the **Grant will be effective immediately upon request completion** option.
8. (Optional) For the requested entitlements, enter any additional information as needed. This additional information can be added using a form associated with the entitlement, provided the entitlement forms have been generated or re-generated by system administrators.

For example, you can enter effective start and end dates for the entitlement. Then, the approver can review and/or modify this additional information and decide whether the entitlements can be provisioned or not.

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**Note:** The corresponding application instance will also be displayed in the cart if the application instance is not already provisioned to the user.

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9. Click **Submit**. The entitlement will be assigned after the request is approved.

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**Note:** If you want to save the cart in the request for editing or submitting later, then click **Save as Draft**.

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## 5.2.2 Modifying Entitlements

To modify an entitlement assigned to you:

1. In the Entitlements tab, select the entitlement that you want to modify.
2. Click **Modify Entitlement** from the toolbar.
3. Modify and submit the request to modify entitlement. The entitlement will be modified after the request is approved.

## 5.2.3 Removing Entitlements

To remove entitlements assigned to you:

1. In the Entitlements tab, select the entitlement that you want to remove.
2. From the Actions menu, select **Remove**. Alternatively, click **Remove Entitlements** from the toolbar. The Catalog page is displayed.
3. Submit the request. The entitlement will be removed after the request is approved. Removing an Entitlement can not be done for a future date. To remove a entitlement in future you need to set the end date field in Grant Duration to that date.

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**Note:** If an account is revoked, its entitlements will be revoked. However, if an account is disabled, then its entitlements will remain granted.

If entitlements have end dates and the end dates are reached, then the entitlements that are not yet revoked will be revoked.

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## 5.2.4 Modifying Entitlement Grant Duration

To modify the grant duration of the entitlement assigned to you or to be assigned to you:

1. In the Entitlements tab of the My Access page, select an entitlement for which you want to modify the grant duration.

The grant duration fields, Start Date and End Date, are displayed in the Entitlements tab.

2. From the Actions menu, select **Modify Grant Duration**. Alternatively, click **Modify Grant Duration** on the toolbar. The Modify Grant Duration dialog box is displayed.
3. In the Justification box, enter a justification for modifying the start date, or end date, or both.
4. Enter values in any one or both of the following fields:
  - **Start Date:** The start date when the entitlement will be provisioned. This must be a future date. This field is not available for modification if the entitlement is already assigned.
  - **End Date:** The end date when the entitlement will be revoked.

5. Click **OK**.

The Start Date and End Date fields in the Roles tab are updated with the values you specified immediately if no approver is assigned else if approver is assigned it is updated after the approval.

## 5.3 Managing Accounts

The Accounts tab in the My Access page displays the accounts assigned to you.

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**Note:** It is recommended not to update a field that is marked as an entitlement field in the child table. To update a field marked as an entitlement, you will have to revoke and grant an entitlement.

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In this tab, you can perform the following:

- [Requesting for Accounts](#)
- [Modifying Accounts](#)
- [Removing Accounts](#)
- [Disabling an Account](#)
- [Enabling an Account](#)
- [Resetting Password for an Account](#)
- [Modifying Account Grant Duration](#)

### 5.3.1 Requesting for Accounts

To request for accounts:

1. In the My Access page, click the **Accounts** tab. A list of accounts assigned to you is displayed.
2. From the Actions menu, click **Request**. Alternatively, click **Request Accounts** on the toolbar. The Catalog page is displayed.
3. Select a catalog item that you want to request. You can also select multiple items in the list.
4. Click **Add to Cart** that is present against the catalog item or **Add Selected to Cart**. The selected items are added to the request cart.
5. Click **Checkout** or click **Next** and provide additional information, however this is not mandatory. Ensure to provide unique values for User Id and Password, else the request will fail.
6. Click **Submit**. The account will be assigned after the request is approved.

For more information, see "[Requesting Access](#)" on page 6-1.

### 5.3.2 Modifying Accounts

To modify accounts assigned to you:

1. In the Accounts tab, select an account that you want to modify.
2. From the Actions menu, select **Modify**. Alternatively, click **Modify Accounts** on the toolbar. The Catalog page is displayed.



3. Edit the attributes of the account. Provide the **Effective Date** for the modifications to be propagated to the account. If it is left blank the account will be modified when the account is approved.
4. Submit the request from the Catalog page. The account will be modified after the request is approved.

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**Note:** Changing the account password as part of the Modify operation in the Account form page will have no effect on the password. The account password can be changed using the Reset Password operation.

As a workaround, you can hide the account password fields by customizing the UI.

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### 5.3.3 Removing Accounts

To remove accounts assigned to you:

1. In the Accounts tab, select the account that you want to remove.
2. From the Actions menu, select **Remove**. Alternatively, click **Remove Accounts** from the toolbar. The Catalog page is displayed.
3. Submit the request to remove accounts. The accounts will be removed after the request is approved. Removing an Account can not be done for a future date. To remove an account in future you need to set the end date field in Grant Duration to that date.

### 5.3.4 Disabling an Account

To disable an account:

1. In the Accounts tab, select an account that you want to disable.
2. From the Actions menu, select **Disable**. Alternatively, select **Disable** on the toolbar. The Catalog Page is displayed.
3. Specify **Effective Date**. This is the date when the account will be disabled.
4. Submit the request to disable accounts. The accounts will be disabled after the request is approved.

### 5.3.5 Enabling an Account

To enable an account:

1. In the Accounts tab, select an account that you want to enable.
2. From the Actions menu, select **Enable**. Alternatively, select **Enable** on the toolbar. The Catalog Page is displayed.

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**Note:** The Enable icon will be active only when a disabled account is selected.

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3. Specify **Effective Date**. This is the date when the account will be enabled.
4. Submit the request to enable accounts. The accounts will be enabled after the request is approved.

### 5.3.6 Resetting Password for an Account

To reset password for an account assigned to you, use one of the following ways:

- Go to the Accounts tab of the My Access page. Then, select an account and click **Reset Password**.
- If you are an admin user, go to the Accounts tab of the Users page. Then, select an account and click **Reset Password**.

### 5.3.7 Modifying Account Grant Duration

To modify the grant duration of the account assigned to you or to be assigned to you:

1. In the Accounts tab of the My Access page, select an account for which you want to modify the grant duration.

The grant duration fields, Start Date and End Date, are displayed in the Accounts tab.

2. From the Actions menu, select **Modify Grant Duration**. Alternatively, click **Modify Grant Duration** on the toolbar. The Modify Grant Duration dialog box is displayed.
3. In the Justification box, enter a justification for modifying the start date, or end date, or both.
4. Enter values in any one or both of the following fields:
  - **Start Date:** The start date when the account will be provisioned. This must be a future date. This field is not available for modification if the account is already assigned.
  - **End Date:** The end date when the account will be revoked.
5. Click **OK**.

The Start Date and End Date fields in the Roles tab are updated with the values you specified immediately if no approver is assigned else if approver is assigned it is updated after the approval.

## 5.4 Viewing Admin Roles

The Admin Roles tab of the My Access page displays the admin roles you have. Admin roles determine the operations you can perform in Oracle Identity Manager.

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## Requesting Access

Oracle Identity Manager supports requesting for entities such as roles, application instances, and entitlements. You can request for these entities by using the access catalog.

This section describes the following topics:

- [Requesting New Access](#)
- [Viewing Hierarchical Attributes of Entitlements](#)
- [Adding and Removing Catalog Items to and from the Cart](#)
- [Adding and Removing Grant Duration](#)
- [Managing Request Profiles](#)
- [Tracking a Request](#)
- [Deleting a Request](#)
- [Withdrawing a Request](#)
- [Closing a Request](#)
- [Requesting Access With Policy Violations](#)

### 6.1 Requesting New Access

Based on permissions, you can request access for self or for other users by using the access catalog. This section describes how to request access by using the access catalog in the following sections:

- [Requesting Access for Self](#)
- [Requesting Access for Other Users](#)
- [Requesting Access By Using a Request Profile](#)
- [Using Keyword Search in the Access Catalog](#)
- [Specifying Application Instances in Entitlements Search](#)
- [Refining Search Results](#)




#### 6.1.1 Requesting Access for Self

To request access for self:

1. Login to Oracle Identity Self Service.

2. In the Self Service tab, click the **Request Access** box, and select **Request for Self**. The Add Access page of the Request Access wizard is displayed. The Add Access page enables you to search and select the items you want to request for. This page consists of the following tabs:
  - **Catalog:** This tab enables you to search and add access (entities) to the request cart, and then create the request for access.
  - **Request Profiles:** This tab enables you to search and view request profiles, and add profiles to the cart. See "[Managing Request Profiles](#)" on page 6-10 for information about request profiles.
3. Click the **Catalog** tab, if it is not already active.
4. Search for the entities that you want to request for self. To do so:
  - a. Select any one of the following options:
    - **All:** To specify that all entities are being searched, such as roles, application instances, and entitlements.
    - **Application:** To specify that only application instances are being searched.
    - **Entitlement:** To specify that entitlements are being searched. While searching for entitlements, you can specify the associated application instances. When you select the **Entitlement** option, the Application list is displayed. For information about selecting one or more application instances, see "[Specifying Application Instances in Entitlements Search](#)" on page 6-7.
    - **Role:** To specify that only roles are being searched.
  - b. In the Search field, enter a search keyword, and click **Search**.  
 For information about search keywords that you can specify, see "[Using Keyword Search in the Access Catalog](#)" on page 6-6".  
 The items that match the search criteria are listed. An icon is displayed with each catalog item that denotes whether the item is a role, application instance, or entitlement, as listed in [Table 6-1](#).

**Table 6-1 Icons Denoting Catalog Item Type**

Icon	Item Type
	Role
	Application Instance
	Entitlement

5. You can refine the catalog items to list all items or any one of the application instance, entitlement, or role entities. See "[Refining Search Results](#)" on page 6-7 for more information.
6. To view the details of the catalog item, click the information icon for the item. The Detailed Information page is displayed that shows the attributes for the item.

For application instances and entitlements, you can edit the values of the attributes in the Detailed Information page. To do so, click the information icon for the application instance or entitlement, modify the values of the attributes in the Detailed Information page, and click **Apply**.

For roles, the attributes displayed in the Detailed Information page are read-only and cannot be modified. These attributes can only be edited by the Catalog Administrator. If Catalog Administrator wants to update any catalog attribute for role, then it can be done only from the role details page.

After modifying or reviewing the attribute values, close the page.

7. To add a catalog item to the request cart, click **Add to Cart** for that item.

To add multiple catalog items to the request cart, select multiple items by clicking the items while pressing the **Ctrl** key, and then click **Add Selected to Cart**.

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**Note:** If you switch workspace, then cart items are lost. For example, after adding items to the cart, if you click the **Manage** tab and then come back to **Self Service** again, then the items added to the cart are lost.



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The items are added to the cart. Scroll to the top of the page. The number of items added to the cart is displayed with the cart icon.



To remove the selected items from the cart, see "[Adding and Removing Catalog Items to and from the Cart](#)" on page 6-8.

When requesting access, each item in the cart can have its own temporal grant dates. If you want specific dates set for the cart items, then the dates must be set manually for each cart item. If no dates are entered, then the start date will default to the current date and the end date will be left empty indicating an indefinite access. See "[Adding and Removing Grant Duration](#)" on page 6-9 for information about grant duration.

**Tip:** To add items to the cart by using request profiles, click the **Request Profiles** tab. For information about request profiles and using request profiles to create a request, see "[Managing Request Profiles](#)" on page 6-10 and "[Requesting Access By Using a Request Profile](#)" on page 6-5.

8. Click **Next**. The Checkout page is displayed.
9. In the Cart Details section, expand **Request Information**, if it is not already expanded.
10. In the Justification field, enter a justification for the request. This is for the approver to review the justification, and then approve or reject the request.
11. Expand **Cart Items**, if it is not already expanded. This section lists the catalog items that you selected and have been added to the request cart. For each item, one of the following icons represents the submission readiness of the item:
  - The  icon denotes that the item is ready for submission.
  - The  icon denotes that the item is not ready for submission.

You can click the information icon for each item to display the details of the item in a pop-up window.

12. (Optional) If you want to remove any item from the cart, then click the cross icon for that item.
13. Click an item to display the request details of the item in the Request Details section. This section consists of the following tabs:
  - **Grant Duration:** This tab is represented by the  icon and is displayed for all types of entities.
  - **Details:** This tab is represented by the  icon and is displayed only for application instances and entitlements that require additional data.
14. Click the Grant Duration icon. The Grant Duration section provides options that enable you to control the duration when the access will be provisioned. To specify grant duration:
  - a. Select the **Grant will be effective immediately upon request completion** option if you want the role, account, or entitlement to be provisioned immediately on request approval. By default, this option is selected.
  - b. If the **Grant will be effective immediately upon request completion** option is not selected, then specify date values for the following fields:
    - **Start Date:** The start date when the role, account, or entitlement will be provisioned.
    - **End Date:** The end date when the role, account, or entitlement will be revoked.

For detailed information about grant duration, see ["Adding and Removing Grant Duration"](#) on page 6-9.
15. Click the Details icon. The form associated with the application instance or complex entitlement is displayed. You can modify the attributes in this form. These attributes are the form fields of the application instance or complex entitlement, and is propagated to the target account after the provision/modify operation is completed.

The Details icon is displayed only when you select a cart item that is an application instance or a complex entitlement.
16. Click **Update**. The values you entered for the selected cart item are updated in the cart.
17. Click **Submit** to submit the request.

If the Identity Audit feature is enabled, then based on the Identity Audit rules configured, the Cart Items sections can display a warning for policy violations. For information about the policy violations displayed in the Cart Items section and how to mitigate the same, see ["Requesting Access With Policy Violations"](#) on page 6-16.

## 6.1.2 Requesting Access for Other Users

Based on permissions, you can request access for other users as follows:

1. Log in to Oracle Identity Self Service.
2. In the **Self Service** tab, click the **Request Access** box, and then select **Request for Others**. The Select Users page of the Request Access for Others wizard is displayed.
3. Search for the users for which you want to request access. You can perform a basic search or an advanced search for users.

- To perform a basic search for users:
  - a. If Advanced search is active, then click **Basic**. Otherwise, proceed to step 2.
  - b. From the Search list, select an attribute based on which you want to search the users.
  - c. In the Search field, enter a keyword for your search.
  - d. Click the Search icon. The users that match the search keyword are listed in the Users pane.
- To perform an advanced search for users:
  - a. Click **Advanced**. A number of attributes are displayed based on which you can search the users.
  - b. For one or more attributes, select the search operator from the lists, such as Starts With, Ends With, Equals, Does Not Equal, Contains, and Does Not Contain. For any date field, the search operators are Equals, Before, After, On or before, On or after, Between.
  - c. Specify values for one or more attributes. The search result will be displayed based on the values that you specify for these attributes.
  - d. Optionally, you can add fields to your search criteria by clicking Add Fields and selecting fields from the list. A cross icon is displayed with the added fields. You can click the cross icon to remove the added field.
  - e. Click **Search**. The users that match the search criteria are listed in the Users pane.

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**Note:** If you switch from basic to advanced search and fill in search criteria and then switch back to basic search again, the basic search still has the criteria from the advanced search. It is now no longer a basic search. This issue is applicable to search screens for all entities that have basic and advanced search. For a description of this issue, see "Advanced Search Parameters Do Not Reset After Switching to Basic Search" in *Oracle Fusion Middleware Identity Management Release Notes*.

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4. In the Users pane, you can view the details of each user by clicking the information icon for that user. The User Details dialog box displays the user attributes, and the roles, accounts, and entitlements assigned to the user. Click Close to close the User Details dialog box.
5. For each user that you want to select, click **Add User**. The user is added to the Selected Users pane.
6. Click **Next**. The Add Access page of the Request Access wizard is displayed.
7. Complete the steps in the wizard, as described in "[Requesting Access for Self](#)" on page 6-1.

### 6.1.3 Requesting Access By Using a Request Profile

You can request access by using a request profile. To do so:

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**Note:** For information about request profiles, see "[Managing Request Profiles](#)" on page 6-10.

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1. In the Request Access box of the Self Service tab, click the **Request Access** box, and select **Request for Self**. The Add Access page of the Request Access wizard is displayed.
2. Click the **Request Profiles** tab.
3. Click the request profile name that you want to use to create the request. The Cart Details page is displayed.
4. The Target Users section displays the usernames of beneficiaries for the request. You can click information icon against each user to view the details.
5. To add beneficiaries to the request:
  - a. Click the Add icon. The Advanced Search for Target Users dialog box is displayed.
  - b. Search and select one or more users that you want to add.
  - c. Click **Add Selected** to add the selected users to the Selected Users list. Alternatively, click **Add All** to add all the users in the Selected Users list.
  - d. Click **Add**. The selected users or beneficiaries are added to the Users section of the Request Cart Details page.

You can also select a user that you want to remove from the list of beneficiaries, and click the Remove icon.

6. If required, in the Justification and Effective Date section, in the respective fields, specify a justification and effective date when the request will be active.
7. In the Cart Items section, select a cart item to display the details of the item.
8. After reviewing and modifying the details for each request in the cart, click **Submit**. If the **Submit** button is not active, then click **Ready to Submit** for each cart item with Not Ready to Submit status.

The request is submitted for approval, and the Request Summary page is displayed with summary information, target user or beneficiary information, and request and approval details.

### 6.1.4 Using Keyword Search in the Access Catalog

Using keyword search in the access catalog, you can search on the basis of entity name, entity display name, or user-defined tags that administrator has provided for that catalog item. Here, entity refers to role, application instance, and entitlement.

Catalog keyword search has the following characteristics:

- Appending wildcard characters, such as asterisk (\*) or percentage sign (%), is not required.
- Catalog keyword search does not support \* or % sign as a prefix.
- Search is performed as if with the `Begins With` operator.

For example, if you are searching for a role with role name as `Act Admin` and display name as `Accounts Administration`, then you can specify the search keyword as `Act` or `Acco` or `Accounts` or `Admin`. Searching with `*unts` will not work.



Any catalog UDF that is marked as searchable is displayed automatically on the catalog search form as an attribute, by using which you can search catalog items. See "Creating a Custom Attribute" in *Oracle Fusion Middleware Administering Oracle Identity Manager* for information about marking a UDF as searchable.

### 6.1.5 Specifying Application Instances in Entitlements Search

When you search for entitlements in the access catalog, you can specify one or more associated application instances based on which you want to search the entitlements. To do so:

1. Navigate to the Catalog tab in the Add Access page of the Request Access wizard, as described in ["Requesting New Access"](#) on page 6-1.
2. To specify an entity type to be searched, select the **Entitlement** option. The Application list is displayed.
3. Select an application instance based on which you want to search the entitlement. The number of selected application instance is shown in the **Selected Apps** link. This number of selected application instances is updated if you again select more application instances from the list.
4. (Optional) Instead of selecting the application instances one by one, you can search and select multiple application instances. To do so:
  - a. From the Application list, select **Search and select multiple**. The Choose Applications dialog box is displayed.
  - b. In the Search box, enter a keyword to search for the application instances you want to select.
  - c. Click the search icon. The application instances that match the search keyword are displayed.
  - d. Click **Select** for each application instance that you want to select.

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**Note:** You can select a maximum of 20 application instances at a time.

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- e. If you want to remove application instances from your selection, then click Deselect for each application instance that you want to remove.
  - f. To select or deselect all application instances at a time, you can click the **Select All** and **Deselect All** buttons respectively.
  - g. Click **OK**. The application instances are selected.
5. (Optional) To remove the selected application instances, click the **Selected Apps** link, and then click the cross icons adjacent to the application instances that you want to remove. To remove all selected application instances, click **Clear All**.

You can Continue with the search by specifying a search keyword, as described in ["Requesting New Access"](#) on page 6-1.

### 6.1.6 Refining Search Results

After searching for catalog items, as described in ["Requesting New Access"](#) on page 6-1, you can refine your search results to make it more precise. To do so, in the Categories section of the Catalog tab, select one or more categories to display the

catalog items of those categories. You can select or deselect the **Select All** checkbox to display or hide all items belonging to the categories.

Categories are a way of organizing entities in the access catalog. Each catalog item is associated with one and only one category. Default categories of a catalog item can be roles, entitlements, or application instances. You can also define new custom categories by changing or updating the category of a catalog item in its detailed information page. For example, you can refine your search result to display catalog items belonging to the entitlements category only by selecting **Entitlements** in the Categories section.

## 6.2 Viewing Hierarchical Attributes of Entitlements

If viewing additional attributes for entitlements is configured, then the request details screen displays the additional attributes. See "Configuring Hierarchical Attributes of Entitlements" in the *Oracle Fusion Middleware Administering Oracle Identity Manager* for information about configuring the display of additional attributes for entitlements.

To view the additional attributes for entitlements:

1. In the Catalog page, search for the catalog items that you want to view. The catalog items that are entitlements are displayed with an arrow icon. These are the entitlements that have XML files associated with them, as described in "Configuring Hierarchical Attributes" in the *Oracle Fusion Middleware Administering Oracle Identity Manager*.

The arrow icon is not displayed for some catalog items because these catalog items do not have XML files associated with them.

2. Click the arrow icon. The additional details with the additional information or the technical glossary is displayed in a new tab. In the additional details tab, the child of the top node is shown. To view the details of the node, click the row.
3. Click the row to view the details. If additional details are present for the child node, then it is displayed on the right side.

Breadcrumb icons are displayed at the top of the additional details popup. The texts in the breadcrumbs are hyperlinks. You can click the hyperlinks to navigate between the nodes.

## 6.3 Adding and Removing Catalog Items to and from the Cart

A request cart, also known as a cart, contains a set of catalog items that the user selects from the request catalog. Users can add catalog items to the request cart to submit a request for entities such as roles, entitlements, and application instances. The request cart does not persist across user sessions.

To add catalog items to the cart:

1. Open the access catalog, and search for the catalog items that you want to add to the cart. See "[Requesting New Access](#)" on page 6-1 for the procedure to search for catalog items.
2. If required, narrow down your search result by selecting or deselecting one or more categories in the Categories section. You can select or deselect the **Select All** checkbox to display or hide all the items belonging to the categories.
3. Click **Add to Cart** on the catalog item that you want to request.

You can also select multiple items from the catalog by following the standard multi-selection process for your system, then click **Add Selected to Cart**.

The number of items added to the cart is displayed with the **Cart** icon at the top of the page.

4. On the top of the page, click **Cart**. The Request Cart window is displayed with a list of all the items that are added to the cart.
5. For each item that you want to remove from the cart, click **Remove** for that item. To remove all items from the cart, click **Remove All**.
6. Click **Close**.

## 6.4 Adding and Removing Grant Duration

The access catalog provides the Start Date and End Date fields for specifying the grant duration of roles, accounts, and entitlements to self or other users.

This section describes the following operations related to grant duration:

- [Specifying Grant Duration](#)
- [Modifying Grant Duration](#)
- [Revoking Access](#)

### 6.4.1 Specifying Grant Duration

When you add access to users, the grant duration fields have the following functionality:

- If both grant duration fields, Start Date and End Date, are specified, then it means that role/account/entitlement will be provisioned on the specified start date only, and it will be revoked on the specified end date.
- If only Start Date is specified, then role/account/entitlement will be provisioned on the specified start date, and there is no end date applicable for the access.
- If only End Date is specified, then role/account/entitlement will be provisioned immediately, and role/account/entitlement will be revoked automatically on end date.
- If both the grant duration fields are not specified, then role/account/entitlement will be provisioned immediately, and role/account/entitlement to entity remains with the user indefinitely.
- If the operation requires approval, then role/account/entitlement will be provisioned only after approval is done and start date is reached (if specified).
- If the operation does not require approval, then role/account/entitlement will be provisioned only after start date is reached (if specified).
- If the grant date is set to a future date, then the access is displayed in the following manner:
  - For roles: The Assigned on date is not displayed if a future start date is set.
  - For entitlements: The access is displayed with the `Future Grant` status in the user's entitlements tab.
  - For accounts: The account will be in disabled state until the start date is reached.

For information about specifying grant duration, see steps 13 and 14 of "[Requesting Access for Self](#)" on page 6-1 for information about specifying grant duration when

requesting roles/accounts/entitlements for self. The same steps apply for specifying grant duration while requesting access for other users.

## 6.4.2 Modifying Grant Duration

Start date can be modified only when roles/accounts/entitlements have not yet been provisioned. End date can be modified at any time.

Grant duration can be modified from the following sections in Identity Self Service:

- The My Access page: For information about modifying the grant duration fields from the My Access page, see ["Modifying Role Grant Duration"](#) on page 5-3, ["Modifying Entitlement Grant Duration"](#) on page 5-5, and ["Modifying Account Grant Duration"](#) on page 5-8.
- The User Details page: For information about modifying the grant duration fields from the User Details page, see ["Modifying Role Grant Duration"](#) on page 15-9, ["Modifying Entitlement Grant Duration"](#) on page 15-11, and ["Modifying Account Grant Duration"](#) on page 15-14.
- The Pending Approvals page: During the approval process of a request, the approver can modify the start and end dates. For details, see ["Modifying Grant Duration"](#) on page 8-5.

## 6.4.3 Revoking Access

Revoking access to an existing role/account/entitlement can be done immediately or in the future.

To revoke access immediately, select the role/account/entitlement from the corresponding table, and click **Remove**.

To revoke access on a future date, select the role/account/entitlement, and click **Modify Grant Duration**. In the Modify Grant Duration popup, set the End Date field to the date when the access should be revoked.

## 6.5 Managing Request Profiles

When you select catalog items for requesting, the items are added to a request cart. The request cart is similar to the shopping cart in web sites that sell products to customers. You can view the selected items in the cart, or edit the request cart to add or remove items.

Request profiles are request carts that are saved for future reuse by the users. The request cart is saved by the catalog administrator or system administrator so that the user can use it to request for entities without searching through thousands of catalog items.

This section discusses the following topics:

- [Creating a Request Profile](#)
- [Modifying a Request Profile](#)
- [Deleting a Request Profile](#)

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**Note:** Creating, modifying, or deleting a request profile can be performed only by catalog administrators or system administrators.

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## 6.5.1 Creating a Request Profile

To create a request profile:

1. Login to Oracle Identity Self Service.
2. Click the **Self Service** tab if it is not already active.
3. Click the **Request Access** box, and select **Request for Self**.
4. Select one or more catalog items, and click **Add to Cart**. The catalog items are added to the request cart.
5. Click **Next**. The Checkout page is displayed with the cart details. The selected catalog items are displayed in the Cart Items section.
6. Click the down arrow beside **Save As**, and then select **Profile**. The Save As Profile dialog box is displayed with a list of the items in the cart.
7. In the Profile Name field, enter a name for the request profile. This is a mandatory field.
8. In the Description field, enter a description of the request profile.
9. Click **Save**. The request profile is created.

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**Note:** If you create a request profile with cart items that have additional information and save the request profile, then the additional information is not saved.

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## 6.5.2 Modifying a Request Profile

To modify a request profile:

1. Open the access catalog, and go to the Add Access page.
2. Click the **Request Profiles** tab.
3. Locate the request profile that you want to modify, and click **Add to Cart**. Click **Next** to move to the Checkout page.
4. Click **Save As Profile**. The Save as Profile dialog box is displayed.
5. In the Save Profile Name field, enter the name for the request profile that is being modified. If you enter a new name, then a new request profile is created. If you enter the name of an existing request profile, then that request profile is updated with the latest changes.
6. In the Description field, enter a description of the request profile.
7. Click **Save**. Depending on whether you have entered the name of an existing request profile or new name, the request profile is created or updated, respectively.

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**Note:** Values that you add or specify for Start Date, End Date, or Effective Date are not saved in a request profile.

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## 6.5.3 Deleting a Request Profile

To delete a request profile:

1. Open the Add Access page of the access catalog.

2. In the Request Profiles section of the Catalog page, click the cross icon in the row corresponding to the request profile.
3. In the Confirmation dialog box that is displayed, click **Yes**.  
The request profile is deleted.

## 6.6 Tracking a Request

This section describes how to search and track requests:

- [Searching Track Request](#)
- [Tracking a Draft Request](#)

### 6.6.1 Searching Track Request

To track a request:

1. In Identity Self Service, click the **Self Service** tab if it is not already active.
2. Click the icon in the **Track Requests** box. The Track Requests page is displayed.
3. Search for the requests you want to track. You can perform basic and advanced search for requests.

To perform basic search for requests:

- a. From the Search list, select an attribute name based on which you want to specify the search parameter.
- b. In the Search box, enter a value for the selected attribute.
- c. Click the Search icon.

To perform an advanced search for requests:

- a. Click **Advanced**.
- b. Select any one of the following:
  - **All**: On selecting this option, the search is performed with the AND condition. This means that the search operation returns requests that match all the search criteria that is specified.
  - **Any**: On selecting this option, the search is performed with the OR condition. This means that the search operation returns requests that match the search criterion that is specified.
- c. In the searchable request attribute fields, such as Request ID, specify a value. You can include wildcard characters (\*) in the attribute value.

For some attributes, select the attribute value from the lookup or drop down. For example, to search all requests with the Request Awaiting Approval status, from the Status list, select the **Equals** search operator, and then select **Request Awaiting Approval** from the adjacent list.

- d. For each attribute value that you specify, select a search operator from the list. For example, the following search operators are available for Request ID:
  - Starts with
  - Ends with
  - Equals

- Does not equal
- Contains
- Does not contain

For other fields, for example Status, Request Type, Beneficiary, and Requester, only Equals and Does not equal operators are available.

For fields of date type, the search operators are:

- Equals
  - Does not equal
  - Before
  - After
  - On or before
  - On or after
- e. To add a searchable request attribute to the Track Requests page, click **Add Fields**, and select the attribute from the list of attributes.  
For example, if you want to track all requests by a requester, then you can add the Requester attribute as a searchable field and specify a search condition.
  - f. Optionally, click **Reset** to reset the search conditions that you specified. Typically, you perform this step to remove the specified search conditions and specify a new search condition.
  - g. Click **Search**. The search results is displayed in a tabular format.
4. If the request search you performed displays a large number of records, then you can filter the request search result. To do so:
    - a. From the Show list, select any of the following:
      - **Requests Raised By Me:** This is selected by default. Returns requests created by logged-in user.
      - **Requests Raised For Me:** Returns requests where login user exists as beneficiary or target user.
      - **For Reportee:** This option is available if the logged-in user is a manager of a user.
      - **For User:** This option is available if the logged-in user has been granted the User Administrator or the HelpDesk admin role.
      - **All:** Returns all requests in the search result. This option is available if the logged-in user has been granted the System Administrator role.
    - b. To sort the requests in the search result by any of the columns such as Request ID or Status, click the **Sort Ascending** or **Sort Descending** arrows in the column. The requests in the search result are sorted by the selected column.
  5. In the request search result, click a request to view the details of the request. The details of the request is shown in a page with the following information:
    - Summary information: This section shows general request details, such as request ID, request status, and effective date.
    - Target Users: This section lists the beneficiaries or target users for the request.

- **Related Requests:** This section lists requests that are related to the open request, if any.
- **Request Details:** This tab lists the requested catalog items. You can select an item to display a summary information of the item.
- **Approval Details:** This tab displays the status of request approval by each approver to whom the request has been assigned.

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**Note:** HelpDesk users and beneficiaries can view request approval details. However, they cannot add comments or attachments on the request summary page.

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## 6.6.2 Tracking a Draft Request

A requester can save a request for modifying, submitting, or deleting it later. This is useful if the requester is awaiting additional information before submitting the request.

Only the requester can modify, submit, or delete the draft request. Users such as system administrators and beneficiaries cannot view draft requests saved by others.

To track a draft request:

1. In the **Self Service** tab, click the icon in the **Track Requests** box. The Track Requests page is displayed.
2. From the Status list, select the **Equals** search operator, and then select **Request Draft Created** from the adjacent list.
3. In the Search Results region, from the Show list, select the **Requests Raised by Me** filter.
4. (Optional) Use any other search criteria as described in "[Tracking a Request](#)" on page 6-12.
5. Click **Search**. The search results is displayed in a tabular format.

The draft request cannot be withdrawn or closed. To delete a draft request, select a request and click **Delete Request**.

To open a draft request to modify or submit it, click the link in the Request ID column. In the Edit Draft Request page, you can click **Submit** to submit the draft request. If the **Submit** button is not active, select and edit each cart item in the Cart Items region, and then click **Ready to Submit**. To modify and save the request data, click **Update Draft Request**.

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**Note:** The request data saved in draft mode does not include sensitive information such as passwords, even if they were entered before saving the request as draft.

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## 6.7 Deleting a Request

To delete a request:

1. In the **Self Service** tab, click the icon in the **Track Requests** box. The Track Requests page is displayed.
2. Search and select the request that you want to delete.



3. From the Actions menu, select **Delete Request**. Alternatively, you can click **Close Request** on the toolbar.
4. Click **Yes** in the confirmation message box. The request is deleted and a notification is sent to the beneficiary and requester of the request.

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**Note:**

- Configuration of notification can be done in the human task of a SOA composite.
  - For more information about request-related tasks, such as approving a request, reassigning a task, and rejecting a task, see ["Using the Unified Inbox"](#) on page 7-1.
- 
- 

## 6.8 Withdrawing a Request

A request can be withdrawn by the requester, and only the requests that have not started the execution phase can be withdrawn. Also, beneficiaries cannot withdraw requests. Requests having the following stages can be withdrawn:

- Obtaining Approval
- Approved

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**Note:**

- Approved requests cannot be closed unless the request has the Request Awaiting Completion status.
  - Draft requests, which are in Request Draft Created status, cannot be withdrawn.
  - If a request is closed while the request is in the Obtaining Approval stage, then all the approvals that are still pending in the approver task list are removed.
- 
- 

To withdraw a request:

1. In the Self Service tab, click the icon in the **Track Requests** box. The Track Requests page is displayed.
2. Search for the requests that you want to withdraw. The search results display a list of requests that match your search criteria with a Withdraw Request button for each request.
3. For a request that you want to withdraw, click **Withdraw Request**. Alternatively, you can open the details of a request by clicking the request ID, and subsequently clicking **Withdraw Request** on the request details page.
4. Click **Yes** in the confirmation message box. The request is withdrawn and a notification is sent to the beneficiary and requester of the request. If the withdrawal is successful, then request moves to the Request Withdrawn stage. Any pending approval tasks associated with the request are canceled.

## 6.9 Closing a Request

Administrators can prematurely close any request that has not started the execution phase. This includes all requests waiting for approvals or has completed approvals but no operation has been started. Requests with the following state can be closed:

- Obtaining Approval
- Approved

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**Note:**

- Approved requests cannot be closed unless the request has the Request Awaiting Completion status.
  - Draft requests, which are in Request Draft Created status, cannot be closed.
  - If a request is closed while the request is in the Obtaining Approval stage, then all the approvals that are still pending in the approver task list are removed.
- 
- 

To close a request:

1. In the **Self Service** tab, click the icon in the **Track Requests** box. The Track Request page is displayed.
2. Search for the requests that you want to close. The requests that match the search condition are displayed in a tabular format.
3. Select the request that you want to close.
4. From the Actions menu, select **Close Request**. Alternatively, you can click the **Close Request** icon on the toolbar.
5. Click **Yes** in the confirmation message box. The request is closed and a notification is sent to the requester and target user of this request. When a request is closed successfully, the request moves to the Request Closed stage.

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**Note:**

- Configuration of notification can be done in the human task of a SOA composite.
  - For more information about request-related tasks, such as approving a request, reassigning a task, and rejecting a task, see ["Managing Pending Approvals"](#) on page 8-1.
- 
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## 6.10 Requesting Access With Policy Violations


When a request for access is submitted and the Identity Audit feature is enabled, the information in the request data is scanned to detect any possible access violations. A violation occurs if the combination of the access currently assigned to a user along with the access being requested, matches an audit policy.

For example, consider an Identity Audit policy consisting of the following rule:

```
role[*].Role Name EQUAL AP Expense Approver
AND
role[*].Role Name EQUAL AP Merchandise Vendor Approver
```

The rule specifies that a user cannot have both the AP Expense Approver and the AP Merchandise Approver roles at the same time. If this situation occurs, then it is a policy violation.

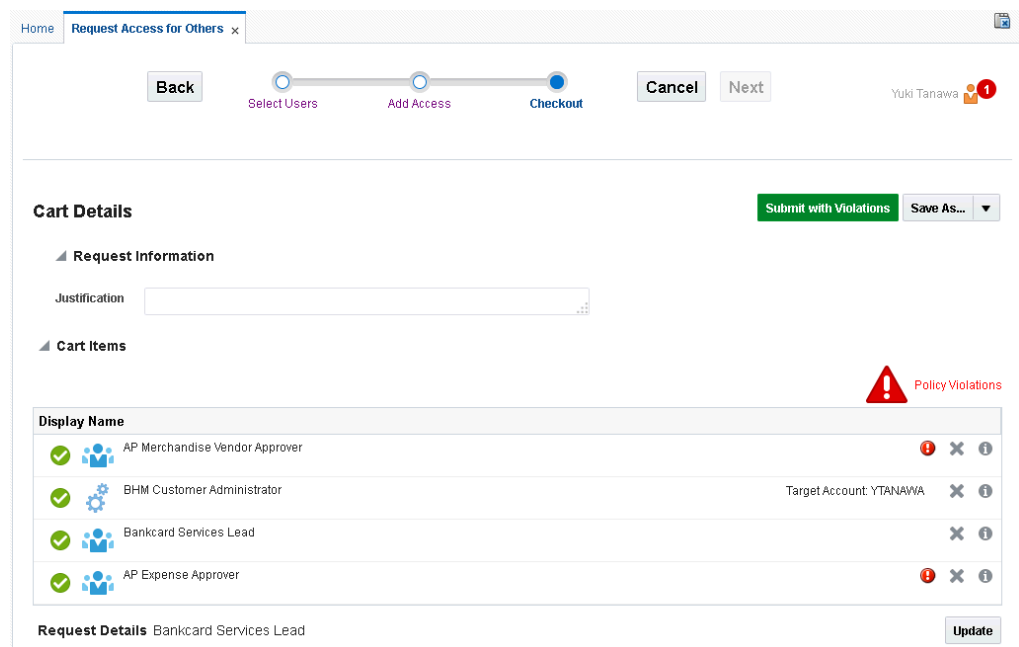
If a violation is detected, the initial request is returned to the requestor, and the page is refreshed to indicate the violations.

Each cart item that is causing the violation is indicated with the  icon, and an overall warning message is displayed. Clicking the message displays an overall view of all the violations detected.

It is still possible to submit the request with the known violations by clicking the **Submit with Violations** button.

Figure 6–1 shows the Checkout page that is indicating policy violations.

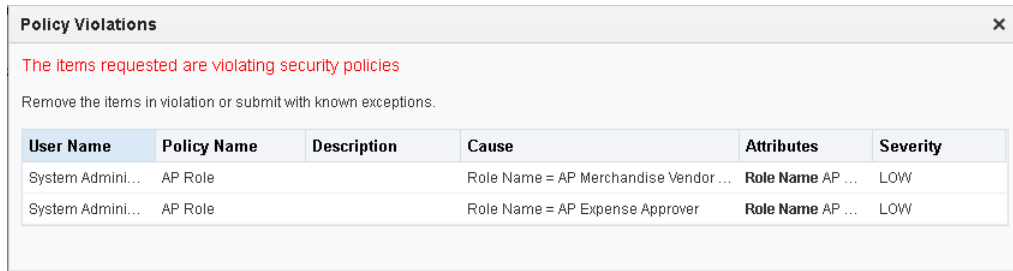
**Figure 6–1 Policy Violation**



Perform the following steps to mitigate the policy violations and submit the request:

1. In the Checkout page of the access catalog, click **Policy Violations**. The Policy Violations dialog box is displayed with the cart items that are causing the policy violation. It displays the policy name that is violated, the cause of the violation, the attributes that cause the violation, and the severity of the violation, as shown in Figure 6–2.

**Figure 6–2 The Policy Violations Dialog Box**



2. Close the Policy Violations dialog box.
3. Click the cross icon with the cart items to remove the items causing the policy violation. In the example in this section, removing any one of the AP Expense Approver or AP Merchandise Vendor Approver roles will remove the policy violation.

The policy violation icons and the policy violation warning are no longer displayed, and the **Submit with Violations** button changes to **Submit**.

4. Click **Submit** to submit the request.  
Alternatively, to submit the request with policy violations, click **Submit with Violations**.

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## Using the Unified Inbox

In Oracle Identity Self Service, you can view task instances of specific types. These types are associated with specific Oracle Identity Manager components. The task types are approval, provisioning, certification tasks, and audit violation tasks.

### **Pending Approval Tasks**

The approval tasks can be viewed and managed from the Inbox as well as from the Pending Approvals page of Identity Self Service. These tasks are instantiated by request service and correspond to associated requests that are in the user or administrator's queue to be approved. For more information, see "[Managing Pending Approvals](#)" on page 8-1.

### **Provisioning Tasks (or Manual Provisioning)**

Provisioning Tasks are not displayed in the Inbox. The provisioning tasks can be viewed and managed from the Provisioning Tasks section of Identity Self Service. These tasks correspond to tasks instantiated by requests, or pending manual provisioning tasks, or failed automatic provisioning tasks in the user or administrator's queue. For more information, see "[Managing Pending Provisioning Tasks](#)" on page 9-2.

Pending manual provisioning tasks can be viewed from the Manual Fulfillment section of Identity Self Service. These tasks are related to provisioning of disconnected application instances. For more information, see "[Managing Manual Fulfillment Tasks](#)" on page 9-7.

The approval and provisioning tasks can be used by both administrators and end-users. For example, an IT department personnel responsible for delivering a laptop to an employee may not be an Oracle Identity Manager administrator, but needs to view and change provisioning tasks.

### **Certification Tasks (or Pending Certifications)**

The certification review tasks can be viewed and managed from the Inbox as well as from the Pending Certifications page of Identity Self Service. These tasks correspond to the certification process in the reviewer's queue. For more information, see "[Managing Certification Review Tasks](#)" on page 10-1.

### **Audit Violation Tasks (or Pending Violations)**

The audit violation tasks can be viewed and managed from the Inbox as well as from the Pending Violations page of Identity Self Service. As a remediator of policy violations that are assigned to you, you can access the pending violations and take action on them. For more information, see "[Managing Pending Violations](#)" on

page 11-1.

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**Note:** Certification and audit violation tasks are displayed only when the Identity Audit feature is enabled. See "[Enabling Identity Audit](#)" on page 14-7 for information about enabling the Identity Audit feature.

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This chapter describes the unified Inbox and some common tasks that you perform in the Inbox. It contains the following sections:

- [Overview of the Unified Inbox](#)
- [Creating a View Definition](#)
- [Editing the Task Chart](#)
- [Editing Inbox Settings](#)

## 7.1 Overview of the Unified Inbox

The Inbox lists all the approval and certification-review tasks assigned to the logged-in user in a single screen. It enables the logged-in user to filter task views into user preferences, such as assigned tasks, completed tasks, and tasks for which information has been requested. The user can select a task to open it in a new tab and then perform necessary actions on the task. This allows you to work on multiple tasks at a time by opening them in different tabs.

To access the Inbox, login to Oracle Identity Self Service, click the down arrow displayed with the logged-in user name, and click **Inbox**.

The Inbox also allows the user to search tasks, organize them in views, and create shared views. The Views pane of the Inbox lists the available views. You can click a view to display its contents, which are filtered representations of tasks that match the view definition.

## 7.2 Creating a View Definition

To create a view definition in the Inbox:

1. On the toolbar in the Inbox, enter a search criteria in the Search field. You can click the search icon adjacent to the Search field to display the search results. You can also choose to perform an advanced search. To do so, click the down arrow adjacent to the search icon, and click **Advanced**. The Advanced Search dialog box is displayed.
2. In the Definition tab, select the **Save Search as View** option. Selecting this option saves the search conditions as a view definition.
3. In the Name box, enter a name for the view. Alternatively, to create a copy of a publicly shared view, click the lookup icon to open the Select Public View dialog box, select a public view name, and click **OK**.

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**Note:** If you log in as a domain admin user, then you can create the view as public so that all users can see the view. When you create a public view, it is displayed under the Standard Views section. For more information, refer to SOA documentation.

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4. From the Assignee list, select the assignee for the tasks that are to be listed in the view. You can filter the options by selecting the options, such as Me, Admin, and Creator.
5. In the Assignee, Task Type, and Add Condition fields, specify a search condition based on which certifications will be displayed in the view. For more information, see "[Searching Certifications in the Pending Certifications Page](#)" on page 10-1.
6. In the Share View section, select any one of the following:
  - **Definition only:** Select this option to share the view definition with other users and groups.
  - **Data:** Select this option to share the data or search result in your view.
7. Click the lookup icon adjacent to the Users and Groups fields to select users and groups respectively with whom you want to share the view.
8. Click **Save as View**. The view is added in the Views pane of the Inbox under My Views.

## 7.3 Editing the Task Chart

To show or hide the task status information in the Inbox:

1. On the toolbar on top of the Inbox, click the **Task Status** icon adjacent to the Status list.
 

**Tip:** If the Task Status section is not displayed by default, then click the arrow next to Task Status to expand the Task Status. To collapse the Task Status, you can click the arrow again.
2. Click the **Edit Task Chart** icon. The Chart Display States dialog box is displayed.
3. Select the task status options that you want to display in the Task Status section of the Inbox. To hide the task status, deselect the task status options.
4. Click **OK**.

## 7.4 Editing Inbox Settings

To modify the way data is displayed in the Inbox:

1. Click the Edit Inbox Settings icon on the toolbar of the Inbox. The Edit Inbox Settings dialog box is displayed.
2. In the Show Columns section, move the column names to and from the Selected Columns list by using the right and left arrows. Only the columns in the Selected Columns list is displayed in the Inbox.

You can also change the order in which the columns are displayed in the Inbox by using the up and down arrows. However, the Title column is always displayed as the first column irrespective of its position.

3. Specify the order in which tasks will be displayed in the Inbox by selecting the column names in the Sort by and Then by lists. Also specify the ascending or descending sort order in the Sort Order list.
4. From the Number of tasks per fetch list, select the number of tasks that will be displayed at a time in the Inbox.
5. Select Hide Task Details Panel if you do not want to display the task details page.

6. From the Default View list, select the default view that will be selected when you navigate to the Inbox.
7. Click **OK**.



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## Managing Pending Approvals

Oracle Identity Manager request service interacts with SOA Server to handle various aspects of human interaction in Oracle Identity Manager workflows. This request service is used to assign tasks to roles and users. You can perform various operations upon tasks assigned to you. For example, you can approve, reject, or claim a task, or request for more information. The process flow in corresponding Oracle Identity Manager workflow is dependent on the outcome of given tasks.

**See Also:** "Developing Workflows" in *Oracle Fusion Middleware Developing and Customizing Applications for Oracle Identity Manager* for information about approval workflows

When a request is submitted, the request service initiates the approval as a task in Oracle SOA Server. This task is assigned to the approver. Further processing of this request by request service remains pending, which is subject to the outcome of the corresponding task. The approver can access either the Inbox section or the Pending Approvals page of the Identity Self Service that lists all the tasks assigned to the approver. The approver can now act upon this task and set its outcome, for example, approve or reject. After the task outcome has been set, the request service resumes the processing of the request that is based on the task outcome.

On successful submission of requests, the request service creates Human Tasks in SOA and assigns them to users or roles in Oracle Identity Manager. Authenticated users can view the tasks waiting for action in the Inbox or in the Pending Approvals page.

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**Note:** This document describes the task actions from the Pending Approvals page. You can perform the same tasks by using the Inbox.

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This section describes some of the task actions:

- [Viewing Pending Approval Tasks](#)
- [Adding Comments and Attachments](#)
- [Approving a Task](#)
- [Rejecting a Task](#)
- [Reassigning a Task](#)
- [Suspending a Task](#)
- [Withdrawing a Task](#)

- [Skipping Current Assignment](#)
- [Claiming a Task](#)
- [Modifying Grant Duration](#)

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**Note:** The features related to performing task actions in the Inbox section are provided by Oracle SOA. For detailed information about the task actions, see *Oracle Fusion Middleware Developer's Guide for Oracle SOA Suite*.

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## 8.1 Viewing Pending Approval Tasks

To view for approval details:

1. Log in to Identity Self Service.
2. Click **Self Service**. Self service Home page is displayed.
3. Click the **Pending Approvals** box. The Pending Approvals page is displayed.

The Pending Approvals page displays the details of your tasks in columns described in [Table 8–1](#):

**Table 8–1 Columns in the My Tasks Page**

Column	Description
Title	The title of the task.
Assignees	The assignee of the task.
State	The current state of the task.
Created	The date and time on which the task is created.
Expires	The expire date of the task.

4. Click the task you would like to view details for.

The task details page displays a detailed view of the request in the Details section, Summary Information section, the Request Details tab, the Approvals tab, and the Cart Items section. It allows complete management of the listed task.

In the Cart Items section, the approver can provide data, without which (if the field is marked as mandatory) the approver will not be allowed to approve a request. For example, when an approver opens a task related to self-registration request, the organization field is marked as mandatory, but no value is specified for this field by the requester. Therefore, the approver must specify a value for this mandatory field.

In addition, the following tabs display details associated to the request:

- **Request Details:** This tab displays the target users or beneficiary information, and related requests, if any.
- **Approvals:** This tab displays the complete approval flow with all approvers. You can select the **Future participants** option to display the next level approvers. You can select the **Full task actions** option to display all the approvals for the task.

## 8.2 Adding Comments and Attachments

After you view the task details, you can add comments and attachments prior to performing any operation on the task such as approving, rejecting, or reassigning the request. An attachment can either be a hyperlink or an actual file. It is recommended that the size of the file attachment that you upload be less than 2 MB. If you want to upload file attachments of size greater than 2 MB, then you must change the ADF configuration and increase the size limit. For more details, see *Oracle Fusion Middleware Fusion Developer's Guide for Oracle Application Development Framework*.

To add comments and attachments:

1. Log in to Identity Self Service.
2. Click **Self Service**. Self service Home page is displayed.
3. Click **Pending Approvals** box. The Pending Approvals page is displayed.

Click the task for which you want to add comments or attachments. The details of the task are displayed in a new tab.

4. To add a comment:
  - a. Click the **Approvals** tab.
  - b. In the Comments section, click the Create icon. The Create Comment dialog box is displayed.
  - c. In the Comment field, enter the comments related to the task, and then click **OK**.
  - d. Select **Task Actions, Save** to save the comment.
5. To add an attachment:
  - a. Expand the Attachments section if it not already expanded.
  - b. In the Attachments section, click the Add icon. The Add Attachment dialog box is displayed.
  - c. Select one of the following options as the attachment type:
    - **URL**: Specify the URL to an attachment.
    - **Desktop File**: Allows you to select and upload a file from the desktop.
  - d. Click **OK**.
6. Select **Task Actions, Save** to save the comment.

## 8.3 Approving a Task

To approve a task that is assigned to you:

1. Log in to Identity Self Service.
2. Click **Self Service**. Self service Home page is displayed.
3. Click **Pending Approvals** box. The Pending Approvals page is displayed.
4. Select the task that you want to approve.
5. Click the task to view its details in a new tab, and then click **Approve**.

The task is approved and is no longer displayed in the tasks table.

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**Note:** A self-registration request is assigned to the System Administrator role by default. Before you can approve a self-registration request, as a member of the System Administrator role, you must claim a self-registration task, provide the organization name, and update the request before approval.

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## 8.4 Rejecting a Task

To reject a request that is assigned to you:

1. Log in to Identity Self Service.
2. Click **Self Service**. Self service Home page is displayed.
3. Click **Pending Approvals** box. The Pending Approvals page is displayed.
4. Select the task that you want to reject.
5. Click the task to view its details in a new tab and provide any comments. Then, click **Reject**. The task is rejected and is no longer displayed in the tasks table of the Approval Details page.

## 8.5 Reassigning a Task

To reassign a request that is assigned to you:

1. Log in to Identity Self Service.
2. Click **Self Service**. Self service Home page is displayed.
3. Click **Pending Approvals** box. The Pending Approvals page is displayed.
4. Select the task that you want to reassign.
5. Click the task to view its details in a new tab. Then, from the Task Actions menu, select **Reassign**.

The Reassign Task dialog box is displayed.

6. Select any one of the following options:
  - **Reassign (transfer task to another user or group):** To reassign the task to another user, group, or application role. On selecting this option, you can search and select users, groups, or application roles for reassigning.
  - **Delegate (allow specified user to act on my behalf):** To delegate the task to a user that you can search and select. The delegated user will take actions on the task on your behalf. The privileges of the delegatee are based on the delegator's privileges.
7. Search for user or groups to which you want to reassign the task, and select the users or group. Otherwise, click **Select All** to select all searched users or groups.
8. Click **OK**. The task is assigned.

## 8.6 Suspending a Task

To suspend a task:

1. In the Approval Details page, search and select the request that you want to suspend.

2. Click the task to view its details in a new tab. Then, from the Task Actions menu, select **Suspend**.

A message is displayed stating that your request has been processed successfully.

## 8.7 Withdrawing a Task

To withdraw a task:

1. In the Approval Details page, search for the request that you want to withdraw.
2. Click the task to view its details in a new tab. Then, from the Task Actions menu, select **Withdraw**.

A message is displayed stating that your request has been processed successfully.

## 8.8 Skipping Current Assignment

In the Pending Approvals page, the Skip Current Assignment option in the Actions menu or Task Actions menu is displayed only to users with the System Administrators role. This option is not displayed for end users.

Skipping the current assignment is not a valid action for an approver. If an approver chooses this action, then the corresponding request fails. Therefore, this option can be hidden for system administrators also. See "Hiding the Skip Current Assignment Option" in *Developing and Customizing Applications for Oracle Identity Manager* for information about hiding the Skip Current Assignment option.

## 8.9 Claiming a Task

To claim a task that is not assigned to you:

1. In the Approval Details page, search and select the request that you want to claim.
2. From the Actions menu, select **claim**.

A message is displayed stating that the request has been assigned to you.

## 8.10 Modifying Grant Duration

To modify the grant duration of the role, account, or entitlement to the user:

1. In the Approval Details page, search and select the request for which you want to modify the grant duration.
2. Open the request details.
3. Click **Claim** in the request details page.
4. In the Request Details tab, click the Grant Duration icon.
5. Modify the values in the following fields:
  - **Start Date:** The start date when the role, account, or entitlement will be provisioned. This must be a future date. This field is not available for modification if the role, account, or entitlement is already assigned to the user.
  - **End Date:** The end date when the role, account, or entitlement will be revoked.

For detailed information about grant duration, see "[Adding and Removing Grant Duration](#)" on page 6-9.

6. Click **Update** in the Request Details tab.

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## Managing Provisioning Tasks

The provisioning tasks feature is used by administrators as well as users. For example, the person in IT administration who is responsible for delivering a laptop computer to an employee may not be an administrator in Oracle Identity Manager, but must view and change provisioning tasks.

The Provisioning Tasks page of the Identity Self Service displays the provisioning tasks assigned to you. In addition, failed automatic provisioning tasks that you must review to take corrective action are displayed, and you must take corrective action on those tasks, such as retry and manually complete.

A provisioning operation such as creating or updating an account, or granting or revoking an entitlement can fail due to one of the following reasons:

- Mandatory information in the process form associated with the provisioning task is missing.
- Password specified for the account does not comply with the password policies configured on the target application.
- Target system is unavailable.
- Connectivity information specified in the ITResource parameter are incorrect, or password is no longer valid.

When a provisioning operation fails, you can configure the provisioning workflow to assign the failed task to an administrator or resource owner for taking an action. These tasks are visible in the Provisioning Tasks page. In this page, all tasks assigned to you for remediation are displayed, and you can perform actions, such as viewing the details of a rejected task and retrying it. If the task is no longer valid, then you can manually complete it. For more information, see "[Managing Pending Provisioning Tasks](#)" on page 9-2.

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**Note:** A user with System Administrator admin role can retry provisioning task.

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The manual provisioning tasks for disconnected application instances are displayed in the Manual Fulfillment page of the Identity Self Service, where you can take actions on the tasks. For more information, see "[Managing Manual Fulfillment Tasks](#)" on page 9-7.

This chapter contains the following sections:

- [Managing Pending Provisioning Tasks](#)

- [Managing Manual Fulfillment Tasks](#)

## 9.1 Managing Pending Provisioning Tasks

You can perform the following tasks in the Provisioning Tasks page:

- [Searching Provisioning Tasks](#)
- [Viewing Provisioning Task Details](#)
- [Setting Response for a Task](#)
- [Adding Notes to a Task](#)
- [Reassigning a Task](#)
- [Viewing Task Assignment History](#)
- [Viewing Form Details](#)
- [Modifying Form Details](#)
- [Retrying a Task](#)
- [Manually Completing a Task](#)

### 9.1.1 Searching Provisioning Tasks

The Provisioning page allows you to search for the provisioning tasks assigned to you or on which your action is pending.

To search for provisioning tasks you can use:

- [Basic Search](#)
- [Advanced Search](#)

#### 9.1.1.1 Basic Search

1. Log in to Identity Self Service.
2. Click the **Self Service** tab.
3. Click the **Provisioning Tasks** box, and select **Open Tasks**. The Provisioning page is displayed.

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**Note:** The Provisioning Tasks tile is a combination of open tasks and manual fulfillment tasks. As a result, the open task count is not displayed.

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4. To perform basic search, select any one of the following search options from the Search drop-down:
  - Task Name
  - Beneficiary
  - Task Status
  - Application Instance
5. Enter value for the search option selected and, click the search icon.
6. The provisioning tasks that match the selected search criteria are displayed in a tabular format.



### 9.1.1.2 Advanced Search

To perform advanced search:

1. Log in to Identity Self Service.
2. Click the **Self Service** tab.
3. Click the **Provisioning Tasks** box, and select **Open Tasks**. The Provisioning page is displayed.
4. Click the **Advanced** link. The fields for advanced search page is displayed.
5. Specify values in one or more of the following fields:
  - **Match:** The **All** and **Any** options are read-only.
  - **Task Name:** Specify a task name that you want to search.
  - **Beneficiary:** Specify the beneficiary of the task.
  - **Task Status:** Select **Pending** or **Rejected** to search for tasks that are pending or rejected respectively.
  - **Application Instance:** Specify the name of the application instance associated with the provisioning task.

After specifying the search criteria, when you click **Search**, the search results table is displayed.

6. Click **Search**. The provisioning tasks that match your search criteria are displayed in a tabular format.

Table 9–1 lists the fields in the search results table.

**Table 9–1 Fields in the Provisioning Tasks Search Results Table**

Field	Description
Task Name	The name of the task
Task Status	The status of the task, which is Pending or Rejected
Application Instance	The name of the application instance, which is affected by this task
Beneficiary	The user whose provisioned application instance will get affected because of this task
Date Assigned	The date and time when the Provisioning task has been assigned to the Assignee
Assignee	The user to whom the task is assigned
Request ID	The ID of the provisioning request task
Account Name	The name of the account being provisioned

### 9.1.2 Viewing Provisioning Task Details

To view provisioning task details:

1. Login to Identity Self Service.
2. Click the **Self Service** tab.  
Click the **Provisioning Tasks** box, and select **Open Tasks**. The Provisioning page is displayed.
3. Search and select the task whose detail you want to view.

4. From the Actions menu, select **Open**. Alternatively, you can click **Open** on the toolbar. The Task Details page is displayed in a new window.

Table 9–2 lists the fields in the Task Details window:

**Table 9–2 Fields in the Task Details Window**

Field	Description
Task Name	The name of the task
Resource Name	The name of the resource, which is affected by this task
Description	A description of the task
User	The beneficiary user name
Status	The status of the task, Pending or Rejected
Response	The response set by the user on the Set Response page <b>Note:</b> For information about setting response, see " <a href="#">Setting Response for a Task</a> " on page 9-4.
Response Description	The description of the response that is defined in the Response tab of the Task Definition section in Oracle Identity Manager Design Console
Notes	The additional comments entered by the approver
Assigned to User	The user to whom or role to which the task is assigned <b>Note:</b> If the task is assigned to a role, this property will come as "Assigned to Role" with the role details.
Error Details	The error, if any, while setting the response
Projected Start	The date when the task is scheduled to start
Projected End	The date when the task is suppose to end
Actual Start	The date when the task was started
Actual End	The date when the task was ended
Last Update	The date when the task was last updated

### 9.1.3 Setting Response for a Task

As an approver, you can set a response for the task while taking an action on the task. To set a response for a task:

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**Note:** Response cannot be set if there are no response codes defined for the corresponding tasks. Response codes are defined by using Oracle Identity Manager Design Console. For more information about defining response codes, see *Oracle Fusion Middleware Developing and Customizing Applications for Oracle Identity Manager*.

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1. In the Self Service tab, click the **Provisioning Tasks** box, and select **Open Tasks**. The Provisioning page is displayed.
2. Search and select a task for which you want to set a response.
3. From the Actions menu, select **Set Response**. Alternatively, click **Set Response** on the toolbar. The Specify Task Responses page is displayed.
4. Select one of the multiple responses defined, and click **Set Response**. The response is set.

### 9.1.4 Adding Notes to a Task

Notes are additional comments provided by the approver. These comments are optional.

To add notes to a task:

1. In the Provisioning page, search and select a task for which you want to add notes.
2. From the Actions menu, select **Open**. Alternatively, you can click **Open** on the toolbar. The Task Details window is displayed.
3. In the Task Details window, click **Add Notes**. The Add Notes for Task window is displayed.
4. In the Enter Additional Notes field, enter the note that you want to add to the task.
5. Click **Add Notes**.

### 9.1.5 Reassigning a Task

As the approver, you can reassign a task to another user or role for taking appropriate action on the task. When the task is reassigned to another user, the assignee becomes the approver. When the task is reassigned to a role, any one member of that role can approve or reject the task.

To reassign a task to another user or role:

1. In the Provisioning page, search and select the task that you want to reassign.
2. From the Actions menu, select **Open**. Alternatively, you can click **Open** on the toolbar. The Task Details window is displayed.
3. In the Task Details window, click **Reassign**. The Reassign Open Tasks page is displayed.
4. Select **User** or **Role** depending on what you want to search for. A list of users or roles is displayed, depending on your selection. You can also filter the search by specifying a criteria for filtering and entering a value in the Filter By field.
5. In the Reassign column, select a user or role to whom you want to assign the task.
6. Click **Reassign**.
7. In the Confirm Tasks to Reassign page, read the details of the action that you are performing and select **Confirm Re-assign Task** to reassign the task or select **Cancel Re-assign Task** to cancel the task reassignment.
8. Check whether the value in the Assigned to section is properly updated according to the above reassignment action.

### 9.1.6 Viewing Task Assignment History

To view the assignment history of a task:

1. In the Provisioning page, search and select a task for which you want to view the task assignment history.
2. From the Actions menu, select **Open**. Alternatively, you can click **Open** on the toolbar. The Task Details window is displayed.
3. In the Task Details window, click **Task Assignment History**. The Task History window is displayed in a tabular format. [Table 9-3](#) lists the columns of the task assignment history.

**Table 9–3 Fields in the Task History Window**

Field	Description
Task Status	The status of the task, Pending or Rejected
Task Action	The source details of the task, for example, when the task is first created it will be "Engine". If the user reassigns the task, it will be "User".
Assign Type	The type of the assignee of the task, for example, when the task is assigned for the first time, it is "Default Task Assignment". If the task is reassigned, then its value is either user or role.
Assigned to User	The user to whom the task is assigned
Assigned to Role	The role to which the task is assigned
Assigned By	The user who assigned the task
Assigned Date	The date when the task was assigned

### 9.1.7 Viewing Form Details

You can view the process form or account details attached with a task. These are process forms associated with the underlying process definition. A task is embedded in the process definition.

To view the process form attached with a task:

1. In the Provisioning Tasks page, search and select a task whose process form you want to view.
2. From the Actions menu, select **View Form**. Alternatively, you can click **View Form** on the toolbar. The View Form window is displayed.

### 9.1.8 Modifying Form Details

You can edit the process form associated with a provisioning workflow to provide missing information, if any.

To modify the process form details:

1. In the Provisioning Tasks page, search and select a task whose process form you want to modify.
2. From the Actions menu, select **Edit Form**. Alternatively, you can click **Edit Form** on the toolbar.
3. In the Edit Form window, modify the required details, and click **Save**.

### 9.1.9 Retrying a Task

As the approver, you can retry a task when an error is generated while setting the response in the first attempt. To retry a task:

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**Note:** Only automated tasks can be retried, and an adapter must be attached to the task. Manual tasks cannot be retried.

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1. In the Provisioning Tasks page, search and select a task that you want to retry.
2. From the Actions menu, select **Retry**. Alternatively, you can click **Retry** on the toolbar.

3. A warning message is displayed prompting you to confirm whether you want to retry the task.
4. Click **Retry**.

### 9.1.10 Manually Completing a Task

There are two types of provisioning operations:

- **Automated:** These are provisioning operations that take place in an automated manner by using an Oracle Identity Manager connector for a particular target application.
- **Manual:** These are provisioning operations that are manually performed with human intervention.

A manual fulfillment task is created during manual provisioning operations. In addition, a manual fulfillment task is created during automated provisioning operation if you want to introduce manual steps to mandate an administrator to take some action either before or after the provisioning operation. For example, if the task requires creation of an account in the EBusiness or AD target, then you must manually fulfill the task after manually creating the account.

To complete a manual fulfillment task:

1. In the Provisioning page, search and select the task that you want to manually complete.
2. From the Actions menu, select Manual Complete. Alternatively, click Manual Complete on the toolbar.

A warning is displayed asking for confirmation.

3. Click **Manually Complete**.

## 9.2 Managing Manual Fulfillment Tasks

As a part of provisioning to disconnected application instance, a task is generated. The task is assigned to a user based on the assignment rules specified in the Manual Provisioning Workflow. See "Disconnected Application Instances" in *Administering Oracle Identity Manager* for information about disconnected application instances.

When the manual action is done, the administrator or the assignee logs into Identity Self Service and completes the manual provisioning task.

The Manual Fulfillment page in the Identity Self Service lists all tasks for provisioning of disconnected application instances.

You can perform the following tasks in the Manual Fulfillment page:

- [Viewing and Editing Task Details](#)
- [Completing a Task](#)
- [Rejecting a Task](#)
- [Adding Comments and Attachments](#)
- [Requesting for Information](#)
- [Reassigning a Task](#)
- [Modifying Grant Duration](#)

## 9.2.1 Viewing and Editing Task Details

To view and edit the details of a manual fulfillment task:

1. Login to Oracle Identity Self Service.
2. Click the **Self Service** tab.
3. Click the **Provisioning Tasks** box, and select **Manual Fulfillment**. The Manual Fulfillment page is displayed.
4. Search for the task for which you want to view or modify the details. To do so, enter a task title in the search field, and click the search icon.
5. Click the task that you want to open. The details of the task is displayed in a separate tab. The task details page consists of the following sections:
  - **Details:** Displays information about the assignee of the task.
  - **Contents:** Displays the details of the task, such as application instance name and beneficiary details.
  - **Cart Details:** Lists the cart items that will be provisioned when the task is completed.
  - **Request Details:** Displays the details of the selected cart item. This consists of:
    - **Details:** Enables you to modify the account information before fulfilling the task.
    - **Grant Duration:** Enables you to modify the duration for which the disconnected application will be provisioned. For more information, see ["Adding and Removing Grant Duration"](#) on page 6-9.
  - **History:** Displays all actions taken on the task. You can filter the task history by clicking Options and selecting one or more of the following options:
    - **Show all:** To show all actions in the task
    - **Exclude system approvals:** To exclude the approvals by Oracle Identity Manager
    - **Combine Repeated Approvals:** To combine the approvals that have been done repeatedly
    - **Include Future approvals:** To show the approvals required in future dates
  - **Comments:** Displays the comment associated to the task, and allows to add a comment to the task.
  - **Attachments:** Displays any attachments with the task, and allows to add or modify the attachments.
6. In the Request Details section, modify the attribute values, and click **Fulfill**.

## 9.2.2 Completing a Task

To complete a task:

1. In the Manual Fulfillment page, search and select the task that you want to complete.
2. From the Actions menu, select **Complete**. Alternatively, you can open the task details, and click **Complete**.

### 9.2.3 Rejecting a Task

To reject a task:

1. In the Manual Fulfillment page, search and select the task that you want to reject.
2. From the Actions menu, select **Reject**. Alternatively, you can open the task details, and click **Reject**.

### 9.2.4 Adding Comments and Attachments

After you view the task details, you can add comments and attachments prior to performing any operation on the task such as approving, rejecting, or reassigning the request. An attachment can either be a hyperlink or an actual file. It is recommended that the size of the file attachment that you upload be less than 2 MB. If you want to upload file attachments of size greater than 2 MB, then you must change the ADF configuration and increase the size limit. For more details, see *Oracle Fusion Middleware Fusion Developer's Guide for Oracle Application Development Framework*.

To add comments and attachments to a task:

1. In the Manual Fulfillment page, search the task to which you want to add a comment or attachment.
2. Click the task to open the task details.
3. To add a comment:
  - a. In the Comments section, click the Create icon. The Create Comment dialog box is displayed.
  - b. In the comment field, enter a comment for the task.
  - c. Click **OK**.
4. To add an attachment:
  - a. In the Attachments section, click the Add icon. The Add Attachment dialog box is displayed.
  - b. Select one of the following options as the attachment type:
    - **URL**: Select to specify the URL to an attachment. Enter the attachment name in the Name field, and enter the URL to the attachment in the URL field.
    - **Desktop File**: Select to upload a file from the desktop. Click Browse, and select the attachment.
  - c. Click **OK**.
5. Click **Task, Save**.

### 9.2.5 Requesting for Information

To request for information about a task:

1. In the Manual Fulfillment page, search for the task for which you want to request for information.
2. Open the task details.
3. Select **Actions, Request Information**. The Request More Information dialog box is displayed.
4. Select any one of the following options:

- **Participant:** To select a participant from the list. Also, select a return option to specify whether the task will return to the current assignee or will go to subsequent participants for further action.
  - **Other users:** To select a user from whom information is requested. Click the lookup icon, and search and select a user.
5. Click **OK**.

## 9.2.6 Reassigning a Task

As the approver, you can reassign a task to another user or role for taking appropriate action on the task. When the task is reassigned to another user, the assignee becomes the approver. When the task is reassigned to a role, any one member of that role can approve or reject the task.

To reassign a task that is assigned to you:

1. In the Manual Fulfillment page, search for the task that you want to reassign.
2. Select the task. From the Actions menu, select **Reassign**.

Alternatively, open the task details, and select **Actions, Reassign**.

The Reassign Task dialog box is displayed.

3. Select any one of the following options:
  - **Reassign (transfer task to another user or group):** To reassign the task to another user, group, or application role. On selecting this option, you can search and select users, groups, or application roles for reassigning.
  - **Delegate (allow specified user to act on my behalf):** To delegate the task to a user that you can search and select. The delegated user will take actions on the task on your behalf. The privileges of the delegatee are based on the delegator's privileges.
4. Click **OK**.

## 9.2.7 Modifying Grant Duration

To modify the grant duration of the account or entitlement to the user:

1. In the Manual Fulfillment page, search for the task for which you want to modify the grant duration of the account or entitlement.
2. Open the request details.
3. In the Request Details tab, click the Grant Duration icon.
4. Modify the values in the following fields:
  - **Start Date:** The start date when the account or entitlement will be provisioned. This must be a future date. This field is not available for modification if the account or entitlement is already assigned to the user.
  - **End Date:** The end date when the account or entitlement will be revoked.

For detailed information about grant duration, see "[Adding and Removing Grant Duration](#)" on page 6-9.

5. Save the task.



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## Managing Certification Review Tasks

You can view and make decisions on certifications from the Inbox or the Pending Certifications page of Oracle Identity Self Service. This section describes working with certifications in the following topics:

- [Searching and Viewing Certifications](#)
- [Completing Certifications](#)

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**Note:** This document describes the actions you can perform in the Pending Certifications page. You can perform the same actions by using the Inbox.

For an overview of identity certification and information about operations you can perform by using the Dashboard, see "[Chapter 12, Using Identity Certification](#)".

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### 10.1 Searching and Viewing Certifications

This section describes how to search and filter certifications in the Pending Certifications page, and how to view the details of certifications. It contains the following sections:

- [Searching Certifications in the Pending Certifications Page](#)
- [Accessing Certification Tasks From the Pending Certifications Page](#)

#### 10.1.1 Searching Certifications in the Pending Certifications Page

To perform simple search for certifications:

1. Login to Oracle Identity Self Service.
2. Click the **Self Service** tab.
3. Click the **Certifications** box. The Pending Certifications page is displayed with a list of certification review tasks assigned to you.
4. From the Status list, select the certification status that you want to search for, for example, **Assigned** or **Completed**. Select **Any** to search for any certification irrespective of the status.
5. In the Search box, specify a search criterion, for example, the certification name.
6. Click the Search icon. The certifications that match your search criteria are listed in the search results table.

**Tip:** To sort the data in the search results table, place the mouse pointer on a column name. Up and down arrows are displayed on the column names. Click the up arrow to sort in ascending order. Click the down arrow to sort in descending order.

## 10.1.2 Accessing Certification Tasks From the Pending Certifications Page

This section describes how to access certification tasks for each type of certification:

- [Viewing User Certification Details](#)
- [Viewing Role Certification Details](#)
- [Viewing Application Instance Certification Details](#)
- [Viewing Entitlement Certification Details](#)

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**Note:** The pages that display certification details and the details for user access rights, role content and membership, account details for application instances and entitlements enable you to personalize the contents of the pages. For example, you can use saved search, show/hide columns, and sort the data in columns. These personalization features are similar in all pages in Oracle Identity Self Service. See [Chapter A, "Personalizing Self Service"](#) for information about personalizing pages in Oracle Identity Self Service.

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### 10.1.2.1 Viewing User Certification Details

To view user certification details:

1. In the Self Service tab of Oracle Identity Self Service, click the **Certifications** box. The Pending Certifications page is displayed with a list of certification tasks assigned to you, and for which you are the primary reviewer or delegated reviewer.
2. Click a certification task name to open it in a new page. The user certification summary of the certification task opens in a new page.
3. Review the following sections of the user details:
  - The user certification name and certification creation date appears at the top of the page. Clicking the information icon adjacent to the certification name displays a Certification Details pop-up with detailed statistics of the current certification being reviewed. The details include information about Overview, Progress Details, and History.
  - In the table that lists the users, the user name is a hyperlink. Clicking this hyperlink opens the access details of the user.

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**Note:** Access details of the user are described in steps 4 through 6 in this procedure.

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- The Detailed Information section consists of the following tabs:
  - **User Information:** This tab displays user attributes that are included in the certification snapshot during certification generation. The user name is a hyperlink. Click the user name to display the user details in a new tab.

- **Risk Summary:** This tab identifies why a user's Risk Summary is High/Medium/Low based on various factors. The pie chart in this tab displays the overall breakdown of a user's risk. Click any area of the chart to open the detail screen of the user certification. To view the risk items in a tooltip, place your mouse pointer over the charts.

This tab also displays a graph that breaks down the risk levels based on the roles, accounts, and entitlements the user has, as well as their associated risk levels. Click any area of the graph to open the detail screen of the user certification. To view the risk items in a tooltip, place your mouse pointer over the graph.

- **Action History:** This tab displays the various delegation paths available on the user details page, and a trail of the actions taken by the reviewers as well as by Oracle Identity Manager. Possible details displayed include all the actions that are available in the Actions menu, as well as proxy, escalate, expire, and route. The route action indicates that certification oversight is active.
4. Review the following sections of the role details displayed when you click the user name to view the user details:

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**Note:** Depending on the entities assigned to the user, such as roles, accounts, and entitlements, the information is displayed, as described in steps 4 through 6.

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- The User Detail section displays the user attributes that are included in the certification snapshot during certification generation.
- The table lists the roles with Display Name, Action, and Risk Summary.
- The Detailed Information section consists of the following tabs:
  - **Catalog Information:** This tab displays the default catalog attributes that are included as part of the default snapshot creation. The Name and Owner fields are hyper-linked. Clicking these hyperlinks opens the role detail and user details pages in new tabs.
  - **Risk Summary:** This tab identifies why the Risk Summary is High, Medium, or Low based on various factors, such as Item Risk, Last Certification Decision, Provisioning Method, and Audit Violations. If there are no audit violations associated with the item, then the Audit Violations entry is not displayed. The Provisioning Method field is hyper-linked. Clicking this hyperlink opens the appropriate access policy or access request details in a new tab.
  - **Certification History:** This tab displays the various certification decisions made by reviewers in the past on the given line-item.
  - **Action History:** This tab displays the phase in which the reviewer made a given decision. Possible values include all the actions that are available in the Actions menu, as well as proxy, escalate, and expire.
  - **Audit Violations:** This tab displays a list of audit violations associated with the selected item. Information includes the policy name, status, remediator, and severity for each audit violation. If there are no audit violations, then the list is empty.

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**Note:** The Audit Violations tab applies only to the User Certification type.

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5. Review the following sections of the account details:
  - The account name and the application instance name are displayed in the table, along with the underlying entitlements associated to the account. Accounts and entitlements are indicated by different icons.
  - The Detailed Information section consists of the following tabs:
    - **Catalog Information:** This tab displays the account details that are the default catalog attributes. These attributes must be included as part of the default snapshot creation. The Name and Certifier fields are hyper-linked. Clicking these hyperlinks opens the account detail and user details pages in new tabs.
    - **Risk Summary:** This tab identifies why the Risk Summary is High, Medium, or Low based on various factors, such as Item Risk, Last Certification Decision, Provisioning Method, and Audit Violations. If there are no audit violations associated with the item, then the Audit Violations entry is not displayed. The Provisioning Method field is hyper-linked for an access request. Clicking this hyperlink opens the appropriate access policy or access request details in a new tab.
    - **Certification History:** This tab displays the various certification decisions made by reviewers in the past on the given line-item.
    - **Action History:** This tab displays the phase in which the reviewer made a given decision. Possible values include all the actions that are available in the Actions menu, as well as proxy, escalate, and expire.
    - **Audit Violations:** This tab displays a list of audit violations associated with the selected item. Information includes the policy name, status, remediator, and severity for each audit violation. If there are no audit violations, then the list is empty.
  
6. Review the following sections of the entitlement details:
  - The account name and the application instance name are displayed in the table, along with the underlying entitlements associated to the account. Accounts and entitlements are indicated by different icons.
  - The Detailed Information section consists of the following tabs:
    - **Catalog Information:** This tab displays the entitlement details that are the default catalog attributes. These attributes must be included as part of the default snapshot creation. The Display Name and Certifier fields are hyper-linked. When you click the Display Name of the entitlement, the granular entitlement hierarchy, if it is being captured in the catalog for a given entitlement, is displayed in a new tab. Clicking the Certifier name opens the user details page in a new tabs.
    - **Risk Summary:** This tab identifies why the Risk Summary is High, Medium, or Low based on various factors, such as Item Risk, Last Certification Decision, Provisioning Method, and Audit Violations. If there are no audit violations associated with the item, then the Audit Violations entry is not displayed. The Provisioning Method field is hyper-linked. Clicking this hyperlink opens the appropriate access policy or access request details in a new tab.

- **Certification History:** This tab displays the various certification decisions made by reviewers in the past on the given line-item.
  - **Action History:** This tab displays the phase in which the reviewer made a given decision. Possible values include all the actions that are available in the Actions menu, as well as proxy, escalate, and expire.
  - **Audit Violations:** This tab displays a list of audit violations associated with the selected item. Information includes the policy name, status, remediator, and severity for each audit violation. If there are no audit violations, then the list is empty.
7. To display the details of the access rights for the next user in the certification task, click **Next** at the top of the page. You can click First, Previous, Next, and Last buttons to navigate between the pages for the access rights of each user. You can click **Back to Summary** to go back to the user certification detail page.

### 10.1.2.2 Viewing Role Certification Details

To view role certification details:

1. In the Self Service tab of Oracle Identity Self Service, click the **Certifications** box. The Pending Certifications page is displayed with a list of certification tasks assigned to you, and for which you are the primary reviewer or delegated reviewer.
2. Click a certification task name to open it in a new page. Page 1 or the role certification summary page of the certification task opens.
3. Review the following sections of the role certification details page:
  - The role certification name and certification creation date appears at the top of the page. Clicking the information icon adjacent to the certification name displays a pop-up with detailed statistics of the current certification being reviewed.
  - In the table that lists the roles, the user name is a hyperlink. Clicking this hyperlink opens the role details. The table also displays the Members and Policies columns.
  - Select a role in the certification table. The Detailed Information section displays the following tabs:
    - **Catalog Information:** This tab displays all catalog attributes of the selected role. The Role Name and Certifier fields are hyperlinked. Clicking these hyperlinks opens the role details and user details in new tabs.
    - **Action History:** This tab displays the various delegation paths available on the role details page, and a trail of the actions taken by the reviewers as well as by Oracle Identity Manager. Possible actions include delegate, re-assign, escalate, proxy, or route. The route action indicates that certification oversight is active.
4. In the certification table, click a role name to open the role detail. The role detail page consists of the following tabs:
  - **Members:** This tab lists the role membership of the open role. Select a row in the members table to display the Detailed Information section, which consists of the User Information, Risk Summary, Certification History, Action History, and Pending Violations tabs.

- **Policies:** This tab lists the policies associated with the open role. Select a row in the policies table to display the Detailed Information section, which consists of the Policy Information, Certification History, and Action History tabs.
5. In the Policies tab, expand a policy by clicking the icon adjacent to the policy. The entitlements associated with the policy are listed in the table. Select the entitlement to display the entitlement details in the Detailed Information section. The entitlement details are displayed in the Catalog Information, Certification History, and Action History tabs.
  6. To display the role contents and role members for the next role in the certification task, click **Next** at the top of the page. You can click First, Previous, Next, and Last buttons to navigate between the pages for the role contents and role member details of each role. You can click **Back to Summary** to go back to the role certification detail page.

### 10.1.2.3 Viewing Application Instance Certification Details

To view application instance certification details:

1. In the Self Service tab of the Oracle Identity Self Service, click the **Certifications** box. The Pending Certifications page is displayed with a list of certification tasks assigned to you, and for which you are the primary reviewer or delegated reviewer.
2. Click a certification task name to open it in a new page. Page 1 or the application instance certification summary page of the certification task opens.
3. Review the following sections of the application instance certification details page:
  - The application instance certification name and certification creation date appears at the top of the page. Clicking the information icon adjacent to the certification name displays a pop-up with detailed statistics of the current certification being reviewed.
  - In the table that lists the application instances, the application instance name is a hyperlink. Clicking this hyperlink lists the accounts belonging to the selected application instance.
  - Select an application instance in the certification table. The Detailed Information section displays the following tabs:
    - **Catalog Information:** This tab displays all catalog attributes of the selected application instance. The Certifier field is hyperlinked. Clicking this hyperlink opens the user details in a new tab.
    - **Action History:** This tab displays the various delegation paths available on the application instance details page, and a trail of the actions taken by the reviewers as well as by Oracle Identity Manager. Possible values include all the actions that are available in the Actions menu, and delegate, re-assign, escalate, proxy, or route. The route action indicates that certification oversight is active.
4. In the certification table, click an application instance name to open the application instance detail. This page lists the application instance names and account names along with the underlying entitlements associated to the account.
5. Click an account to display the account details in the Detailed Information section. This section displays the account details in the Catalog Information, Risk Summary, Certification History, and Action History tabs.

6. Click an entitlement to display the entitlement details in the Detailed Information section. This section displays the entitlement details in the Catalog Information, Risk Summary, Certification History, Action History, and Pending Violations tabs.
7. To display the set of users who have accounts for the next the application instance in the certification task, click **Next** at the top of the page. You can click First, Previous, Next, and Last buttons to navigate between the pages for the account details of each application instance. You can click **Back to Summary** to go back to the application instance certification detail page.

#### 10.1.2.4 Viewing Entitlement Certification Details

To view entitlement certification details:

1. In the Self Service tab of Oracle Identity Self Service, click the **Certifications** box. The Pending Certifications page is displayed with a list of certification tasks assigned to you, and for which you are the primary reviewer or delegated reviewer.
2. Click a certification task name to open it in a new page. Page 1 or the entitlement certification detail page of the certification task opens.
3. Review the following sections of the entitlement certification details page:
  - The entitlement certification name and certification creation date appears at the top of the page. Clicking the information icon adjacent to the certification name displays a pop-up with detailed statistics of the current certification being reviewed.
  - In the table that lists the entitlements, the entitlement name is a hyperlink. Clicking this hyperlink displays the entitlement assignment details of the selected entitlement.
  - Select an entitlement in the certification table. The Detailed Information section displays the following tabs:
    - **Catalog Information:** This tab displays all catalog attributes of the selected application instance. The Display Name and Certifier fields are hyperlinked. Clicking these hyperlinks opens the entitlement details and user details in new tabs.
    - **Action History:** This tab displays the various delegation paths available on the entitlement details page, and a trail of the actions taken by the reviewers as well as by Oracle Identity Manager. Possible values include all the actions in the Actions menu, and delegate, re-assign, escalate, proxy, or route. The route action indicates that certification oversight is active.
4. In the certification table, click an entitlement name to open the entitlement assignment detail. This page lists the account names of the selected entitlement.
5. Click an account to display the account details in the Detailed Information section. This section displays the account details in the Account-Owner Information, Risk Summary, Certification History, and Action History tabs.
6. Click an entitlement to display the entitlement details in the Detailed Information section. This section displays the entitlement details in the Catalog Information, Risk Summary, Certification History, and Action History tabs.
7. To display the set of users who have accounts for the next entitlement in the certification task, click **Next** at the top of the page. You can click First, Previous, Next, and Last buttons to navigate between the pages for the account details of

each entitlement. You can click **Back to Summary** to go back to the entitlement certification detail page.

## 10.2 Completing Certifications

Completing certifications is described in the following sections:

- [Completing User Certifications](#)
- [Completing Role Certifications](#)
- [Completing Application Instance Certifications](#)
- [Completing Entitlement Certifications](#)

### 10.2.1 Completing User Certifications

User certification enables managers to verify their employees and the role assignments, accounts and entitlement assignments for each. Completing a user certification involves the following steps:

1. [Making Certification Decision on the Users](#)
2. [Reviewing Roles and Entitlements](#)
3. [Finishing the User Certification](#)

#### 10.2.1.1 Making Certification Decision on the Users

When a certification task is opened, you may be required to verify the access of each user. This verification step is optional based on the configuration settings set in the certification definition. If verification is not required, then the initial summary view of users are skipped and you are presented with the user detail view.

If verification is required, then a decision must be made on each of the users that you have been asked to review. To do so:

1. In the Pending Certifications page, open the new or in progress certification review task. Page 1 of the certification task is displayed with a list of users.
2. Review the list of users and verify that each employee works for you, and that you are responsible for verifying their access.
3. From the Actions menu, select any one of the following for each user:
  - **Claim:** Select to restore a user to your verification queue for certification. This might happen automatically, depending on the values in certification configuration. See "[Configuring Certification Options](#)" on page 13-9 for information about the certification configuration options. However, even if each user is claimed automatically, you are free to choose another action.
  - **Revoke:** Select if the user is no longer part of the organization. This action removes the user from the certification process, and you will not approve or revoke roles and entitlements for this user. To return a user to your verification queue, select the user name, and select **Claim** from the Actions menu.
  - **Re-assign:** Select if the user works for someone else who should now be responsible for verifying the user's assigned roles and entitlements. This action removes the selected user(s) from the current certification, creates a new certification with the selected user(s), and assigns the person you specify as the primary reviewer for that new certification.



- **Abstain:** Select if the employee does not work for you and you do not know who should be responsible for verifying the user's assigned roles and entitlements. This action on the user records on each role and entitlement assigns to the user your decision to abstain, that is, to leave each assignment as it is. If you know who should be responsible, then you can reassign the user instead.

After you have taken a verification action on each user, you must make certification decisions on each role and entitlement assigned to the users you have claimed. You do not need to make any further certification decisions on a user that you have revoked or reassigned or abstained. Normally, this means that you will open each user and then review its roles and entitlements, as described in ["Reviewing Roles and Entitlements"](#) on page 10-9. However, you may also choose to delegate one or more users to another person, which allows that person to make certification decisions on the roles and entitlements assigned to that user. The following actions are available from the Actions menu:

- **Open:** Select this action to review the details of each user and to make certification decisions on the roles and entitlements assigned to the user. See ["Reviewing Roles and Entitlements"](#) on page 10-9.
- **Delegate:** Select this action to allow another person to make decisions on the access privileges of each selected user. This action will create a new delegated-review task that contains the selected user(s) and will assign the task to the person you specify as delegate. Responsibility still remains with you, the primary reviewer.
- **Un-delegate:** This action applies only to delegated users. This action removes each selected user from the delegated-review task and returns decision-making rights to you, the primary reviewer.

The Actions menu offers two additional convenience actions that are useful after you have made some certification decisions on the details of a user. These actions affect the decisions on multiple details, that is, accesses of each selected user:

- **Complete:** Sets any missing decisions on role-assignments, accounts, or entitlement-assignments to Certify.
- **Reset Status:** Clears all decisions made on the user including decisions on the user's access.
- **Edit Comment:** Allows you to edit the comment associated with the certification task.
- **Sign-off:** Allows you to complete the certification by signing off.

### 10.2.1.2 Reviewing Roles and Entitlements

Use the details view of the certification to review a user's role assignments, accounts, and entitlement assignments. The details view can be accessed by selecting a user in the summary view, and clicking **Open** from the Actions menu, or by clicking the user name.

After your selections are made, you can use the Actions menu to select the appropriate action. The Actions menu contains the following options:

- **Certify:** You approve each selected assignment.
- **Revoke:** You disapprove each selected assignment. This decision indicates that the user no longer needs the privilege and the assignment should be removed. When you select this option, a dialog box might be displayed that asks for comments. Type a note in the Comments pop-up, and click **OK**.

- **Certify Conditionally:** You approve each selected assignment, but only temporarily. This action also requires you to specify an end date on which your approval expires.
- **Abstain:** You take no position on each selected assignment. This records your decision to leave the assignment as it is.
- **Reset:** Use this to clear any decision you have made on the selected assignment.

For each action, optional comments can be added. By default, every decision other than to certify, such as Revoke, Certify Conditionally, and Abstain, allow optional comments.

### 10.2.1.3 Finishing the User Certification

The final step in the certification cycle is the sign-off action. Signing off can only be done when every access privilege has a decision assigned to it. When this state is reached, Oracle Identity Manager automatically prompts you to sign-off on all the decisions taken. If you choose not to sign-off at that time, then you can manually invoke the sign-off dialog box later assuming that all access privileges are still completed. The process for signing off is the same whether automatically prompted by the system or manually activated.

To manually sign-off:

1. From the Actions menu, select **Sign-off**. The Sign-off dialog box is displayed asking to complete the certification.
2. To complete the certification, select **Yes**, and enter a password in the Password Required field. The password option is configurable and set in the certification definition. If disabled, the password field is not displayed in the Sign-off dialog box.

Alternatively, to complete the certification later, select **No**.

3. Click **OK**.

Upon successful sign-off, the tab displaying the certification is closed automatically and a confirmation message is displayed.

If the `FlexibleCertificationProcess` composite is selected in the Certification Configuration page of Oracle Identity System Administration or while creating the certification definition, then the certification tasks are assigned to the user's manager by default. Here, the user's manager is the overseer. The certification is not complete until the overseer signs off. The certification will go to the completed stage only after sign-off by the overseer.

## 10.2.2 Completing Role Certifications

Role certification enables role owners to certify roles and role content. Completing a role certification involves the following steps:

1. [Making Certification Decisions on the Roles](#)
2. [Reviewing the Contents of the Roles](#)
3. [Finishing the Role Certification](#)

### 10.2.2.1 Making Certification Decisions on the Roles

When a certification task is opened, you may be required to verify the access of each role. This verification step is optional based on the configuration settings set in the

certification definition. If verification is not required, then the initial summary view of role will be skipped, and you will be presented with the role detail view.

If verification is required, then a decision must be made on each of the roles for which you are the role owner. To do so:

1. In the Pending Certifications page, open the new or in progress certification review task. Page 1 of the certification task is displayed with a list of roles.
2. From the Actions menu, select any one of the following for each role:
  - **Claim:** Select to restore a role to your verification queue for certification. This might happen automatically, depending on the values in certification configuration. See "[Configuring Certification Options](#)" on page 13-9 for information about the certification configuration options. However, even if each role is claimed automatically, you are free to choose another action.
  - **Revoke:** Select if the role is no longer appropriate. This action removes the role from the certification process, and you will not approve or revoke assignments for this role. To return a role to your verification queue, select the role name, and select **Claim** from the Actions menu.
  - **Re-assign:** Select to remove the role from the current certification and create a new one with the selected role. This action removes the selected role(s) from the current certification, creates a new certification with the selected role(s), and assigns the person you specify as the primary reviewer for that new certification.
  - **Abstain:** Select if the role is not appropriate and you do not know who should be responsible for verifying the role's assigned accounts, memberships, and entitlements. This action on the role records on each account and entitlement assigns to the role your decision to abstain, that is, to leave each assignment as it is. If you know who should be responsible, then you can reassign the role instead.

After you have taken a verification action on each role, you must make certification decisions on each policy and entitlement assigned to the roles you have claimed. You do not need to make any further certification decisions on a role that you have revoked or reassigned or abstained. Normally, this means that you will open each role and then review its policies and entitlements, as described in "[Reviewing the Contents of the Roles](#)" on page 10-12. However, you may also choose to delegate one or more roles to another person, which allows that person to make certification decisions on the policies and entitlements assigned to that role. The following actions are available from the Actions menu:

- **Open:** Select this action to review the details of each role and to make certification decisions on the policies and entitlements assigned to the role. See "[Reviewing the Contents of the Roles](#)" on page 10-12.
- **Delegate:** Select this action to allow another person to make decisions on the access privileges of each selected role. This action will create a new delegated-review task that contains the selected role(s) and will assign the task to the person you specify as delegate. Responsibility still remains with you, the primary reviewer.
- **Un-delegate:** This action applies only to delegated roles. This action removes each selected role from the delegated-review task and returns decision-making rights to you, the primary reviewer.

The Actions menu offers two additional convenience actions that are useful after you have made some certification decisions on the details of a role. These actions affect the decisions on multiple details, that is, accesses of each selected role:

- **Complete:** Sets any missing decisions on account or entitlement assignments to Certify.
- **Reset:** Clears all decisions made on the role including decisions on the role's access.

### 10.2.2.2 Reviewing the Contents of the Roles

Use the details view of the certification to review a role's policies, memberships, and entitlements. The details view can be accessed by selecting a role in the summary view and clicking the **Open** button from the Actions menu, or by clicking the role name.

After your selections are made, you can use the Actions menu to select the appropriate action. The Actions menu contains the following options:

- **Certify:** You approve each selected assignment.
- **Revoke:** You disapprove each selected assignment. This decision indicates that the role no longer needs the privilege and the assignment should be removed. When you select this option, a dialog box might be displayed that asks for comments. Type a note in the Comments pop-up, and click **OK**.
- **Certify Conditionally:** You approve each selected assignment, but only temporarily. This action also requires you to specify an end date on which your approval expires.
- **Abstain:** You take no position on each selected assignment. This records your decision to leave the assignment as it is.
- **Reset:** Use this to clear any decision you have made on the selected assignment.

For each action, optional comments can be added. By default, every decision other than to certify, such as Revoke, Certify Conditionally, and Abstain, allow optional comments.

Click the **Members** tab to review the users who have this role assigned. Revoke, Certify Conditionally, Certify, and/or Abstain the role's members as required. In this tab, an additional **Approve** option is available for two-phased user certification. Selecting this option copies the decision from Phase 1 to Phase 2. See "[Understanding Multi-Phased Review in User Certification](#)" on page 13-33 for information about two-phased review.

### 10.2.2.3 Finishing the Role Certification

The final step in the certification cycle is the sign-off action. Signing off can only be done when every access privilege has a decision assigned to it. When this state is reached, Oracle Identity Manager automatically prompts you to sign-off on all the decisions taken. If you choose not to sign-off at that time, then you can manually invoke the sign-off dialog box later assuming that all access privileges are still completed. The process for signing off is the same whether automatically prompted by the system or manually activated.

To manually sign-off:

1. From the Actions menu, select **Sign-off**. The Sign-off dialog box is displayed asking to complete the certification.
2. To complete the certification, Select **Yes**, and enter a password in the Password Required field. The password option is configurable and set in the certification

definition. If disabled, the password field is not displayed in the Sign-off dialog box.

Alternatively, to complete the certification later, select **No**.

3. Click **OK**.

Upon successful sign-off, the tab displaying the certification is closed automatically and a confirmation message is displayed.

## 10.2.3 Completing Application Instance Certifications

Application instance certification involves certifying or revoking employee entitlements on one or more application instances. These entitlements are assigned directly to an employee and are not assigned as part of a role. Completing an application instance certification involves the following steps:

1. [Making Certification Decisions on the Application Instances](#)
2. [Reviewing Account and Entitlement Assignments](#)
3. [Finishing the Application Instance Certification](#)

### 10.2.3.1 Making Certification Decisions on the Application Instances

When a certification task is opened, you may be required to verify the access of each application instance. This verification step is optional based on the configuration settings set in the certification definition. If verification is not required, then the initial summary view of application instances is skipped, and you are presented with the application instance detail view.

If verification is required, then a decision must be made on each of the application instances. To do so:

1. In the Pending Certifications page, open the new or in-progress certification review task.
2. From the Actions menu, select any one of the following for each application instance:
  - **Claim:** Select to restore an application instance to your verification queue for certification. This might happen automatically, depending on the values in certification configuration. See "[Configuring Certification Options](#)" on page 13-9 for information about the certification configuration options. However, even if each application instance is claimed automatically, you are free to choose another action.
  - **Revoke:** Select if the application instance is no longer appropriate. This action removes the application instance from the certification process, and you will not approve or revoke assignments for this application instance. To return an application instance to your verification queue, select the application instance name, and select **Claim** from the Actions menu.
  - **Re-assign:** Select to remove the application instance from the current certification and create a new one with the selected application instance. This action removes the selected application instance(s) from the current certification, creates a new certification with the selected application instance(s), and assigns the person you specify as the primary reviewer for that new certification.
  - **Abstain:** Select if the application instance is not appropriate and you do not know who should be responsible for verifying the application instance's

assigned accounts and entitlements. This action on the application instance records on each account and entitlement assigns to the application instance your decision to abstain, that is, to leave each assignment as it is. If you know who should be responsible, then you can reassign the application instance instead.

After you have taken a verification action on each application instance, you must make certification decisions on each account and entitlement assigned to the application instances you have claimed. You do not need to make any further certification decisions on an application instance that you have revoked or reassigned or abstained. Normally, this means that you will open each application instance and then review its accounts and entitlements, as described in "[Reviewing Account and Entitlement Assignments](#)" on page 10-14. However, you may also choose to delegate one or more application instances to another person, which allows that person to make certification decisions on the accounts and entitlements assigned to that application instance. The following actions are available from the Actions menu:

- **Open:** Select this action to review the details of each application instance and to make certification decisions on the accounts and entitlements assigned to the application instance. See "[Reviewing Account and Entitlement Assignments](#)" on page 10-14.
- **Delegate:** Select this action to allow another person to make decisions on the access privileges of each selected application instance. This action will create a new delegated-review task that contains the selected application instance(s) and will assign the task to the person you specify as delegate. Responsibility still remains with you, the primary reviewer.
- **Un-delegate:** This action applies only to delegated application instances. This action removes each selected application instance from the delegated-review task and returns decision-making rights to you, the primary reviewer.

The Actions menu offers two additional convenience actions that are useful after you have made some certification decisions on the details of an application instance. These actions affect the decisions on multiple details, that is, accesses of each selected application instance:

- **Complete:** Sets any missing decisions on account or entitlement assignments to Certify.
- **Reset:** Clears all decisions made on the role including decisions on the application instance's access.

### 10.2.3.2 Reviewing Account and Entitlement Assignments

Use the details view of the certification to review an application instance's accounts and entitlements. The details view can be accessed by selecting an application instance in the summary view and clicking the **Open** button from the Actions menu, or by clicking the application instance name.

After your selections are made, you can use the Actions menu to select the appropriate action. The Actions menu contains the following options:

- **Certify:** You approve each selected assignment.
- **Revoke:** You disapprove each selected assignment. This decision indicates that the application instance no longer needs the privilege and the assignment should be removed. When you select this option, a dialog box might be displayed that asks for comments. Type a note in the Comments pop-up, and click **OK**.

- **Certify Conditionally:** You approve each selected assignment, but only temporarily. This action also requires you to specify an end date on which your approval expires.
- **Abstain:** You take no position on each selected assignment. This records your decision to leave the assignment as it is.
- **Reset:** Use this to clear any decision you have made on the selected assignment.

For each action, optional comments can be added. By default, every decision other than to certify, such as Revoke, Certify Conditionally, and Abstain, allow optional comments.

An additional **Approve** option is available for two-phased user certification. Selecting this option copies the decision from Phase 1 to Phase 2. See "[Understanding Multi-Phased Review in User Certification](#)" on page 13-33 for information about two-phased review.

### 10.2.3.3 Finishing the Application Instance Certification

The final step in the certification cycle is the sign-off action. Signing off can only be done when every access privilege has a decision assigned to it. When this state is reached, Oracle Identity Manager automatically prompts you to sign-off on all the decisions taken. If you choose not to sign-off at that time, then you can manually invoke the sign-off dialog box later assuming that all access privileges are still completed. The process for signing off is the same whether automatically prompted by the system or manually activated.

To manually sign-off:

1. From the Actions menu, select **Sign-off**. The Sign-off dialog box is displayed asking to complete the certification.
2. To complete the certification, Select **Yes**, and enter a password in the Password Required field. The password option is configurable and set in the certification definition. If disabled, the password field is not displayed in the Sign-off dialog box.

Alternatively, to complete the certification later, select **No**.

3. Click **OK**.

Upon successful sign-off, the tab displaying the certification is closed automatically and a confirmation message is displayed.

## 10.2.4 Completing Entitlement Certifications

Entitlement certifications enable you to certify whether employees should be able to access entitlements. Completing an entitlement certification involves the following steps:

1. [Making Certification Decisions on the Entitlements](#)
2. [Reviewing the Entitlement Assignments](#)
3. [Finishing the Entitlement Certification](#)

### 10.2.4.1 Making Certification Decisions on the Entitlements

When a certification task is opened, you may be required to verify the access of each entitlement. This verification step is optional based on the configuration settings set in the certification definition. If verification is not required, then the initial summary

view of the entitlements is skipped, and you are presented with the entitlement detail view.

If verification is required, then a decision must be made on each of the entitlements. To do so:

1. In the Pending Certifications page, open the new or in-progress certification review task.
2. From the Actions menu, select any one of the following for each entitlement:
  - **Claim:** Select to restore an entitlement to your verification queue for certification. This might happen automatically, depending on the values in certification configuration. See "[Configuring Certification Options](#)" on page 13-9 for information about the certification configuration options. However, even if each entitlement is claimed automatically, you are free to choose another action.
  - **Revoke:** Select if the entitlement is no longer appropriate. This action removes the entitlement from the certification process, and you will not approve or revoke assignments for this entitlement. To return an entitlement to your verification queue, select the entitlement name, and select **Claim** from the Actions menu.
  - **Re-assign:** Select to remove the entitlement from the current certification and create a new one with the selected entitlement. This action removes the selected entitlement(s) from the current certification, creates a new certification with the selected entitlement(s), and assigns the person you specify as the primary reviewer for that new certification.
  - **Abstain:** Select if the entitlement is not appropriate and you do not know who should be responsible for verifying the entitlement's assigned accounts. This action on the entitlement records on each account assigns to the entitlement your decision to abstain, that is, to leave each assignment as it is. If you know who should be responsible, then you can reassign the entitlement instead.

After you have taken a verification action on each entitlement, you must make certification decisions on each user account assigned to the entitlements you have claimed. You do not need to make any further certification decisions on an entitlement that you have revoked or reassigned or abstained. Normally, this means that you will open each entitlement and then review its user accounts, as described in "[Reviewing the Entitlement Assignments](#)" on page 10-17. However, you may also choose to delegate one or more entitlements to another person, which allows that person to make certification decisions on the user accounts assigned to that entitlement. The following actions are available from the Actions menu:

- **Open:** Select this action to review the details of each entitlement and to make certification decisions on the user accounts assigned to the entitlement. See "[Reviewing the Entitlement Assignments](#)" on page 10-17.
- **Delegate:** Select this action to allow another person to make decisions on the access privileges of each selected entitlement. This action will create a new delegated-review task that contains the selected entitlement(s) and will assign the task to the person you specify as delegate. Responsibility still remains with you, the primary reviewer.
- **Un-delegate:** This action applies only to delegated entitlements. This action removes each selected entitlement from the delegated-review task and returns decision-making rights to you, the primary reviewer.



The Actions menu offers two additional convenience actions that are useful after you have made some certification decisions on the details of an entitlement. These actions affect the decisions on multiple details, that is, accesses of each selected entitlement:

- **Complete:** Sets any missing decisions on account assignments to Certify.
- **Reset:** Clears all decisions made on the entitlement including decisions on the entitlement's access.

#### 10.2.4.2 Reviewing the Entitlement Assignments

Use the details view of the certification to review an entitlement's user accounts. The details view can be accessed by selecting an entitlement in the summary view and clicking **Open** from the Actions menu, or by clicking the entitlement name.

After your selections are made, you can use the Actions menu to select the appropriate action. The Actions menu contains the following options:

- **Certify:** You approve each selected assignment.
- **Revoke:** You disapprove each selected assignment. This decision indicates that the entitlement no longer needs the privilege and the assignment should be removed. When you select this option, a dialog box might be displayed that asks for comments. Type a note in the Comments pop-up, and click **OK**.
- **Certify Conditionally:** You approve each selected assignment, but only temporarily. This action also requires you to specify an end date on which your approval expires.
- **Abstain:** You take no position on each selected assignment. This records your decision to leave the assignment as it is.
- **Reset:** Use this to clear any decision you have made on the selected assignment.

For each action, optional comments can be added. By default, every decision other than to certify, such as Revoke, Certify Conditionally, and Abstain, allow optional comments.

An additional **Approve** option is available for two-phased user certification. Selecting this option copies the decision from Phase 1 to Phase 2. See "[Understanding Multi-Phased Review in User Certification](#)" on page 13-33 for information about two-phased review.

#### 10.2.4.3 Finishing the Entitlement Certification

The final step in the certification cycle is the sign-off action. Signing off can only be done when every access privilege has a decision assigned to it. When this state is reached, Oracle Identity Manager automatically prompts you to sign-off on all the decisions taken. If you choose not to sign-off at that time, then you can manually invoke the sign-off dialog box later assuming that all access privileges are still completed. The process for signing off is the same whether automatically prompted by the system or manually activated.

To manually sign-off:

1. From the Actions menu, select **Sign-off**. The Sign-off dialog box is displayed asking to complete the certification.
2. To complete the certification, Select **Yes**, and enter a password in the Password Required field. The password option is configurable and set in the certification definition. If disabled, the password field is not displayed in the Sign-off dialog box.

Alternatively, to complete the certification later, select **No**.

**3.** Click **OK**.

Upon successful sign-off, the tab displaying the certification is closed automatically and a confirmation message is displayed.

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## Managing Pending Violations

As a remediator of policy violations that are assigned to you, you can access the pending violations and take action on them by using the Identity Self Service. This chapter describes how to manage the pending violations assigned to you. It contains the following sections:

- [Viewing Policy Violations](#)
- [Searching Pending Violations](#)
- [Completing Policy Violations](#)
- [Reassigning or Delegating Policy Violations](#)

### 11.1 Viewing Policy Violations

You can navigate and view the policy violations assigned to you in any one of the following ways:

- In Oracle Identity Self Service, click the **Self Service** tab. Click the icon in the **Pending Violations** box.
- In Oracle Identity Self Service, click the down arrow at the top, and select **Inbox**. Under Views, click the **Pending Violations** view.

### 11.2 Searching Pending Violations

You can search for policy violations if you are aware of the policy violation name that is system-generated.

To search for pending violations:

1. Login to Oracle Identity Self Service.
2. Click the **Self Service** tab.
3. Click the icon in the **Pending Violations** box. The Pending Violations page is displayed.

Alternatively, you can open the Inbox and click the Pending Violations view, as described in "[Viewing Policy Violations](#)" on page 11-1.

4. In the Search field, enter a search criterion, such as the policy violation name.
5. Click the Search icon. The pending violations that match the search criteria are displayed in a tabular format.

## 11.3 Completing Policy Violations

To request for remediation for a policy violation assigned to you:

1. Navigate to the Pending Violation page or Inbox, as described in "[Viewing Policy Violations](#)" on page 11-1.
2. Click the policy violation to open the Violation details page. This page consists of the following tabs:
  - **Details:** This tab has the following sections:
    - **Violation Details:** Displays the details of the policy violation, such as the policy attributes, status, detection count, and the details of the user for which the violation is generated.
    - **Access Details:** Displays the cause of the violation, the rules within the policy that have been violated, the status and attributes of the violation, and comments, if any. In addition, the Attributes column displays details of the cause of the violation.

You can place your mouse pointer on the information icon in the Rules Violated column to display a popup with details of the violated rule, such as rule name, description, and rule condition.
  - **Action History:** This tab displays all actions taken by the remediator of the policy till the current state.
3. For each item in the Access Details section of the Details tab, you can perform the following actions:
  - **Close as Fixed:** This action is to indicate that the cause has been fixed manually, either because it has been taken care of outside the system or the remediator has manually taken action to ensure that this access no longer exists for the user.

To close the policy violation cause by accepting the violation risk:

- a. Select **Close as Fixed**. Alternatively, click **Close** on the toolbar, and then select **Close as Fixed**. The Provide Comments dialog box is displayed.
- b. Enter a comment, and click **Submit**.

- **Close as Risk Accepted:** This action is to indicate that the access is required by the user for a particular time period, and the user can have the access until that date.

To close the policy violation cause by accepting the violation risk:

- a. From the Actions menu, select **Close as Risk Accepted**. Alternatively, click **Close** on the toolbar, and then select **Close as Risk Accepted**. The Provide Comments dialog box is displayed.
- b. In the Expiration Date field, specify a date after which the violation will be re-opened if it still exists.

The default value of the Expiration Date field is 30 days. It can be increased to more than 30 by setting the value of the **Maximum Risk Acceptance period for Policy Violation Causes** field. For information about setting the value of this field, see "[Setting Identity Audit Options](#)" on page 14-7.

- c. In the Comments field, enter a comment, and click **Submit**.

- **Request for Remediation:** This action is to indicate that you want to revoke the access of the user because it is not required by the user, in order to mitigate the violation.

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**Note:** This action is not available for any user attribute that is causing violations, for example user title.

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To request for remediation of the policy violation cause:

- a. From the Actions menu, select **Request for Remediation**. Alternatively, click **Remediate** on the toolbar. The Provide Comments dialog box is displayed.
  - b. Enter a comment, and click **Submit**.
4. After you have taken actions on some or all of the access details, click **Complete** on the top-right corner of the screen.

Based on the actions taken and the conditions of the rules, the policy violation will either be closed (if there are no more violations) or re-opened (if some of the actions were left open or the risk accepted date has passed and the user still has the access) during subsequent identity audit scans.

## 11.4 Reassigning or Delegating Policy Violations

When you reassign or delegate a policy violation task to other user/users, the ownership of the task is transferred to the user (assignee), and the task is removed from your view.

To reassign or delegate policy violations to other users:

1. Navigate to the Pending Violation page or Inbox, as described in "[Viewing Policy Violations](#)" on page 11-1.
2. Search and select the policy violation that you want to reassign or delegate.
3. From the Actions menu, select **Reassign**. The Reassign Task dialog box is displayed.
4. Select any one of the following options:
  - **Reassign (transfer task to another user or group):** Select this option if you want to move the pending violation task to other users or roles that you specify.
  - **Delegate (allow specified user to act on my behalf):** Select this option if you want to allow the specified user to take action on the pending violation task on behalf of the logged-in user.
5. Search for the users (assignees) by specifying a search criterion in the search field.
6. Select the checkbox for each user that you want to select.
 

You can click **Select All** to select all the users in the search result, or you can click **Select None** to reset your selection.
7. Click **OK**. The pending violation task is reassigned/delegated to the selected users. The task is no longer displayed in the task view of the logged-in user.



# Part III

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## Working with Compliance

This part describes the audit and compliance features of Identity Self Service.

It contains the following chapters:

- [Chapter 12, "Using Identity Certification"](#)
- [Chapter 13, "Managing Identity Certification"](#)
- [Chapter 14, "Managing Identity Audit"](#)





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## Using Identity Certification

This chapter provides an overview of identity certification, describes the identity certification user interface, and includes information about how to complete identity certifications. It contains the following topics:

- [Identity Certification Overview](#)
- [Certification UI](#)
- [Certification Name Formats](#)
- [Searching and Viewing Certifications](#)
- [Completing User Certifications in Offline Mode](#)
- [Generating Certification Reports](#)

### 12.1 Identity Certification Overview

This section describes what, why, and how identity certifications are conducted. It also discusses who is typically involved in the identity certification process.

#### 12.1.1 What Is Identity Certification?

Identity certification is the process of reviewing user entitlements and access-privileges within an enterprise to ensure that users have not acquired entitlements that they are not authorized to have. It also involves either approving (certifying) or rejecting (revoking) each access-privilege.

Certifications can be scheduled to run on a regular basis to meet compliance requirements. Managers use the identity certification feature to review their employees' entitlements to access applications and data. Based on changes reported by the identity certification module, managers can authorize or revoke employee access as needed.

You can create four types of certifications. Each type of certification addresses a particular use-case—a specific type of review that enterprises commonly perform. Each type of reviewer reviews a different subset of access-related data from a specific point of view.

[Table 12-1](#) lists the four types of identity certification that are possible in Oracle Identity Manager.

**Table 12–1 The Four Types of Identity Certification**

Identity Certification Type	Description
User Certification	<p>Allows managers to certify employee access to roles, accounts, and entitlements. Typically, each manager in an organization reviews the access-privileges of the people who report directly to that manager. Each reviewer in a certification of this type is focused on his or her direct-reports, but is expected to review all of the access-privileges for each direct report.</p> <p>User certification optimizes review from the perspective of the line-of-business (LOB) manager, who must review all access-privileges for each user who reports to the LOB manager.</p> <p>User certification also supports a two-phased review, in which user access rights can be reviewed by managers first, and subsequently by any of the other IT owners, such as role owner, application instance owner, or entitlement owner, all within a single certification campaign.</p>
Role Certification	<p>Allows role owners to certify role content and/or role members. This certification is used in organizations that have implemented role-based access control (RBAC). Typically, the owner of a role is the person responsible for reviewing its definition (that is, the set of access-privileges that it conveys) as well as its membership (the set of users to whom the role has been assigned). Each reviewer in a certification of this type is focused on a particular enterprise role.</p> <p>Role certification optimizes review from the perspective of the role authorizer or role administrator, who must review the definition and the membership of each role that are owned by the role authorizer or role administrator.</p>
Application Instance Certification	<p>This certification allows the person who is responsible for a particular system or application to review the set of users who have accounts on that system or application. The reviewer can drill down and view the details of the access-privileges of each account. Each reviewer in a certification of this type is focused on one specific system or application.</p> <p>Application instance certification optimizes review from the perspective of the Application Instance Authorizer or Application Instance Administrator, who must review the membership (accounts) and the set of privileges (entitlement-assignments) for each application that are owned by the Application Instance Authorizer or Application Instance Administrator.</p>
Entitlement Certification	<p>Allows entitlement owners to certify user accounts that have a particular privilege. This certification is used if a specific person is responsible for a particular entitlement (that is, an Attribute Value or a group membership that confers a specific access-privilege). The entitlement owner can review the set of user accounts that have that particular entitlement. Each reviewer in a certification of this type is focused on one specific privilege within one specific resource.</p> <p>Entitlement certification optimizes review from the perspective of the Entitlement Authorizer or Entitlement Administrator, who must review the definition and the membership (entitlement-assignments) for each privilege (entitlement-definition) that are owned by the Entitlement Authorizer or Entitlement Administrator.</p>

A scheduled job generates certifications based on a specified certification definition. Oracle Identity Manager applies the selection criteria within the certification definition

to select the privilege assignments (and/or privilege definitions) that will be reviewed and by whom. Oracle Identity Manager generates a separate certification for each primary reviewer. Oracle Identity Manager also generates a review task for each primary reviewer. Oracle Identity Manager creates a new review task whenever a primary reviewer delegates or reassigns line-items to another reviewer. As each reviewer acts on the review task assigned to that reviewer, this updates the overall certification. Overall progress for each certification is visible from the Dashboard.

## 12.1.2 Who Is Involved in Completing Identity Certifications?

Identity certification allows personnel in an organization to review and certify user entitlement data, role content data, application instance data, and entitlement data. Following are descriptions of the types of users that are typically involved in the identity certification process, as well as the certifications that each user type can authorize or revoke. In Oracle Identity Manager, personnel who participate in the identity certification process are called *reviewers*.

Table 12–2 lists the reviewers involved in identity certification.

**Table 12–2 Identity Certification Reviewers**

Reviewer Name	Description	Certification Types That Can Be Accessed
Certifier	A generic term that signifies a person who is responsible for reviewing and completing any kind of certification.	<ul style="list-style-type: none"> <li>■ User certification</li> <li>■ Role certification</li> <li>■ Application instance certification</li> <li>■ Entitlement certification</li> </ul>
User manager	A manager with direct reports. Users report to a user manager.	<ul style="list-style-type: none"> <li>■ User entitlement</li> </ul>
Business reviewer	<p>A user within an enterprise who reviews the access-privileges of other users from a business-oriented perspective. Typically, this is a Line-Of-Business (LOB) manager who is responsible for the access-privileges of users who report to him/her.</p> <p><b>Note:</b> LOB is a category of industry or business function. For example, an LOB manager is oriented to a business function within an enterprise, such as Sales.</p>	<ul style="list-style-type: none"> <li>■ User certification</li> <li>■ Role certification</li> <li>■ Application instance certification</li> <li>■ Entitlement certification</li> </ul>

**Table 12–2 (Cont.) Identity Certification Reviewers**

Reviewer Name	Description	Certification Types That Can Be Accessed
Primary Reviewer	<p>The person who is primarily responsible for making certification decisions on a particular set of line-items. The primary reviewer can reassign a line-item to another user, in which case that user becomes the new primary reviewer for that line-item, and the original primary reviewer never sees that line-item again. The primary reviewer can also delegate any of his line-items to another person, in which case that user becomes the delegated reviewer for that line-item, but the primary reviewer still retains responsibility for that line-item.</p> <p><b>Note:</b> For information about line-item, see "<a href="#">Line of Business and Line Item</a>" on page 13-1.</p>	<ul style="list-style-type: none"> <li>■ User certification</li> <li>■ Role certification</li> <li>■ Application instance certification</li> <li>■ Entitlement certification</li> </ul>
Technical Reviewer	<p>A user within an enterprise who reviews the access-privileges of others from a technically-oriented perspective. Typically, this is an IT expert or an application-owner who is responsible for access-privileges being specified correctly, or for limiting access within the enterprise to a specific access-privilege.</p>	<ul style="list-style-type: none"> <li>■ User certification</li> </ul>
Delegated Reviewer	<p>A person who is assigned to help with the certification work. The delegated reviewer is secondarily responsible for making certification-decisions on a particular set of line-items, but the primary reviewer remains ultimately responsible. Any decision made by the delegated reviewer eventually returns to the primary reviewer, who can override that decision.</p>	<ul style="list-style-type: none"> <li>■ User certification</li> <li>■ Role certification</li> <li>■ Application instance certification</li> <li>■ Entitlement certification</li> </ul>
Final Reviewer	<p>The person who has the final say over the certification-decisions. The final reviewer can review and override the certification decisions of other reviewers.</p> <p>Final Review is performed only after a two-phased review (and only when an administrator has configured the certification-definition to enable this). The primary reviewer from the first phase can then make a final review of the certification actions made by all the reviewers in the first two phases.</p>	<ul style="list-style-type: none"> <li>■ User Certification</li> </ul>

## 12.2 Certification UI

You can view and work with certification objects by using the following in Oracle Identity Self Service:

- Pending Certifications page:** The Pending Certifications page lists all the tasks assigned to the logged-in user in a single screen. It enables the logged-in user to filter task views into user preferences, such as assigned tasks, completed tasks, and tasks for which information has been requested. The user can select a task to open it in a new tab and then perform necessary actions on the task. This allows the user to work on multiple tasks at a time by opening them in different tabs.

To access the Pending Certifications page, login to Oracle Identity Self Service, and in the Self Service tab, click the **Certification** box.

**See Also:** ["Managing Certification Review Tasks"](#) on page 10-1 for detailed information about the Pending Certifications page and the operations you can perform by using the Pending Certifications page

- Dashboard:** The Identity Certification Dashboard provides an overview of in-progress and completed certifications in the system. The certifications displayed in the dashboard depends on your role. A user with either the Certification Administrator or Certification Viewer admin role can see all certifications in the system. A non-administrative user, for example, a manager, can see any certification for which that user is assigned as a primary reviewer. A primary reviewer or user with the Certification Viewer admin role can view the certification information. A user assigned the Certification Administrator admin role can view any certification, and take basic actions on in-progress certifications. The primary reviewer cannot take actions on the certifications in the Dashboard.

To access the Dashboard, login to Oracle Identity Self Service, click the Compliance tab, click the Identity Certification box, and select **Dashboard**.

## 12.3 Certification Name Formats

The certification task names are displayed is different formats depending on the review phase and reviewer. [Table 12–3](#) lists the certification task names in various review phases.

**See Also:**

- ["Certification Task"](#) on page 13-2 for information about certification tasks
- ["Understanding Multi-Phased Review in User Certification"](#) on page 13-33 for information about the review phases in multi-phased review for user certification

**Table 12–3 Certification Name Formats**

Review Phase	Name Format	Example
Phase 1 (P1)	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]
Phase 1 Reassign	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Reassigned[ <i>NEW_PRIMARY_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]Reassigned[ Jane Doe ]
Phase 1 Delegate	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Delegated[ <i>P1_DELEGATED_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]Delegated[ Jane Doe ]
Phase 1 Verification	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Verification	Q1 Access 2012[ Robert Klein ]Verification

**Table 12–3 (Cont.) Certification Name Formats**

<b>Review Phase</b>	<b>Name Format</b>	<b>Example</b>
Phase 2 (P2)	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Roles[ <i>P2_TECHNICAL_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]Roles[ Terence Hill ]
	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Application Instances[ <i>P2_TECHNICAL_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]Application Instances[ Martha Smith ]
	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Entitlements[ <i>P2_TECHNICAL_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]Entitlements[ Hattori Hanzo ]
Phase 2 Reassign	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Roles[ <i>P2_TECHNICAL_REVIEWER</i> ]Reassigned[ <i>NEW_P2_TECHNICAL_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]Roles[ Terrence Hill ]Reassigned[ Jane Doe ]
	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Application Instances[ <i>P2_TECHNICAL_REVIEWER</i> ]Reassigned[ <i>NEW_P2_TECHNICAL_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]Application Instances[ Martha Smith ]Reassigned[ Jane Doe ]
	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Entitlements[ <i>P2_TECHNICAL_REVIEWER</i> ]Reassigned[ <i>NEW_P2_TECHNICAL_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]Entitlements[ Hattori Hanzo ]Reassigned[ Jane Doe ]
Phase 2 Delegate	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Roles[ <i>P2_TECHNICAL_REVIEWER</i> ]Delegated[ <i>NEW_P2_TECHNICAL_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]Roles[ Terrence Hill ]Delegated[ Jane Doe ]
	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Application Instances[ <i>P2_TECHNICAL_REVIEWER</i> ]Delegated[ <i>NEW_P2_TECHNICAL_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]Application Instances[ Martha Smith ]Delegated[ Jane Doe ]
	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Entitlements[ <i>P2_TECHNICAL_REVIEWER</i> ]Delegated[ <i>NEW_P2_TECHNICAL_REVIEWER</i> ]	Q1 Access 2012[ Robert Klein ]Entitlements[ Hattori Hanzo ]Delegated[ Jane Doe ]
Phase 2 Verification	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Roles[ <i>P2_TECHNICAL_REVIEWER</i> ]Verification	Q1 Access 2012[ Robert Klein ]Roles[ Terence Hill ]Verification
	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Application Instances[ <i>P2_TECHNICAL_REVIEWER</i> ]Verification	Q1 Access 2012[ Robert Klein ]Application Instances[ Martha Smith ]Verification
	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Entitlements[ <i>P2_TECHNICAL_REVIEWER</i> ]Verification	Q1 Access 2012[ Robert Klein ]Entitlements[ Hattori Hanzo ]Verification
Final review	<i>CERT_DEFINITION</i> [ <i>P1_PRIMARY_REVIEWER</i> ]Final Review	Q1 Access 2012[ Robert Klein ]Final Review

## 12.4 Searching and Viewing Certifications

This section describes how to search and filter certifications in the Certification Dashboard, and how to view the details of certifications. It contains the following topics:

- [Searching Certifications in the Dashboard](#)
- [Viewing Certifications From the Dashboard](#)

### 12.4.1 Searching Certifications in the Dashboard

The Dashboard enables you to perform basic search and advanced search for certifications.

To perform a basic search for certifications:

1. Login to Oracle Identity Self Service.
2. Click the **Compliance** tab.
3. Click the **Identity Certification** box, and select **Dashboard**. The Dashboard page is displayed.
4. From the Search list, select any one of the following, and enter a search criterion in the box adjacent to the list:
  - **Certification Name:** To search the certifications by certification name.
  - **Organization Name:** To search the certifications by the organization name selected for the certification.
  - **Type:** To search the certifications by the certification type.
  - **Create Date:** To search the certifications by certification creation date.
5. Click the search icon. The certifications that match your search criteria are displayed in the search results table.

**Tip:** To sort the data in the search results table, place the mouse pointer on a column name. Up and down arrows are displayed on the column names. Click the up arrow to sort in ascending order. Click the down arrow to sort in descending order.

To perform an advanced search for certifications:

1. Login to Oracle Identity Self Service.
2. Click the **Compliance** tab.
3. Click the **Identity Certification** box, and select **Dashboard**. The Dashboard is displayed with a list of certifications in a table. The table consists of columns, such as Name, Percent Complete, and Organization.

You can personalize the table to display or hide certification attributes that are displayed as columns in the table. You can also change the order in which the columns are displayed in the table.

4. To show or hide columns and change the order of the columns, follow the instructions in "[Personalizing the Search Result](#)" on page A-3.
5. In the Search Certifications section, click **Advanced**.
6. Select any one of the following options:
  - **All:** To specify that the search result must match all the specified search criteria.
  - **Any:** To specify that the search result must match any one of the specified search criteria.
7. Enter values in the certification search attributes.

8. Click the Search icon. The certifications that match your search criteria are displayed in the table.
  - Tip:** To sort the data in the search results table, place the mouse pointer on a column name. Up and down arrows are displayed on the column names. Click the up arrow to sort in ascending order. Click the down arrow to sort in descending order.
9. (Optional) You can refine the certification search result. To do so, from the Show list, select any one of the following to filter the list of certifications displayed in the Dashboard:
  - **New and In Progress:** Lists the certifications that are assigned to you and the certifications in progress.
  - **New:** Lists only the new certifications that are assigned to you.
  - **In Progress:** Lists only the certifications in progress.
  - **Completed:** Lists the certifications that are in the completed state.
  - **Expired:** Lists the certifications whose end date has passed.
  - **All:** Lists all types of certifications including new, in progress, and expired certifications.

## 12.4.2 Viewing Certifications From the Dashboard

You can open and view certification details from the Pending Certifications page or the Dashboard. However, all users cannot see the certifications in the Dashboard. Only the primary reviewers, who have been selected as certifiers during the certification creation process, can see the certifications in the Dashboard. All other users can access certification tasks only from the Pending Certifications page. For example, the delegated reviewers cannot see the particular certification in the Dashboard, but can see a certification task in the Pending Certifications page. Similarly, phase 2 reviewers for user certification cannot see any certification in the Dashboard. For non-admin users, the Dashboard provides a read-only access to certifications for the purpose of monitoring.

**See Also:** ["Understanding Multi-Phased Review in User Certification"](#) on page 13-33 for information about the phases of reviews in multi-phased review for user certification.

To open and view certification details from the Dashboard:

1. In the **Compliance** tab of Oracle Identity Self Service, click the **Identity Certification** box, and select **Dashboard**. The Dashboard page is displayed.
2. Select the certification for which you want to display the details. A summary of the selected certification is displayed in the Detail Information section, which consists of the following tabs:
  - **Certification Details:** Displays the certification attributes such as name, percentage complete, and number of roles, accounts, entitlements, or users for the selected certification. A link to the requests page is also displayed if closed-loop remediation has been activated for the certification.

For information about closed-loop remediation and remediation tracking, see ["Understanding Closed-Loop Remediation and Remediation Tracking"](#) on page 13-26. For information about the Track Requests page, see ["Tracking a](#)



[Request](#)" on page 6-12.

- **Certification Tasks:** Displays a list of certification tasks that are part of the selected certification. This is a read-only view, and the user cannot take any action on the certification tasks.
  - **Reports:** Enables you to generate certification reports. This tab is displayed only if the report option is configured in Oracle Identity Manager. See ["Generating Certification Reports"](#) on page 12-12 for details.
3. From the Actions menu, select **Open**. Alternatively, you can click **Open** on the toolbar, or click the certification name to open it. The details of the selected certification are displayed in the certification details page.

In both Pending Certifications page and the Dashboard, you can also click the certification name to open the details of the certification.

The certification details is displayed in a tabular format. You can hide, unhide, and re-order columns in the table. For details, see ["Personalizing the Search Result"](#) on page A-3. In addition, you can use the saved search feature in this page to search for the details. For information about creating and using saved search, see ["Using Saved Search"](#) on page A-4.

## 12.5 Completing User Certifications in Offline Mode

You have the option to download user certification data to your local computer and work on it in an offline mode by using Microsoft Excel without having an active session with Oracle Identity Manager. After making decisions on the certifications, you can connect to Oracle Identity Manager and upload your decisions. The availability of this option can be controlled by enabling or disabling the **Enable Interactive Excel** option in the Certification Configuration page in Oracle Identity Self Service. For information about this option, see ["Configuring Certification Options"](#) on page 13-9.

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**Note:**

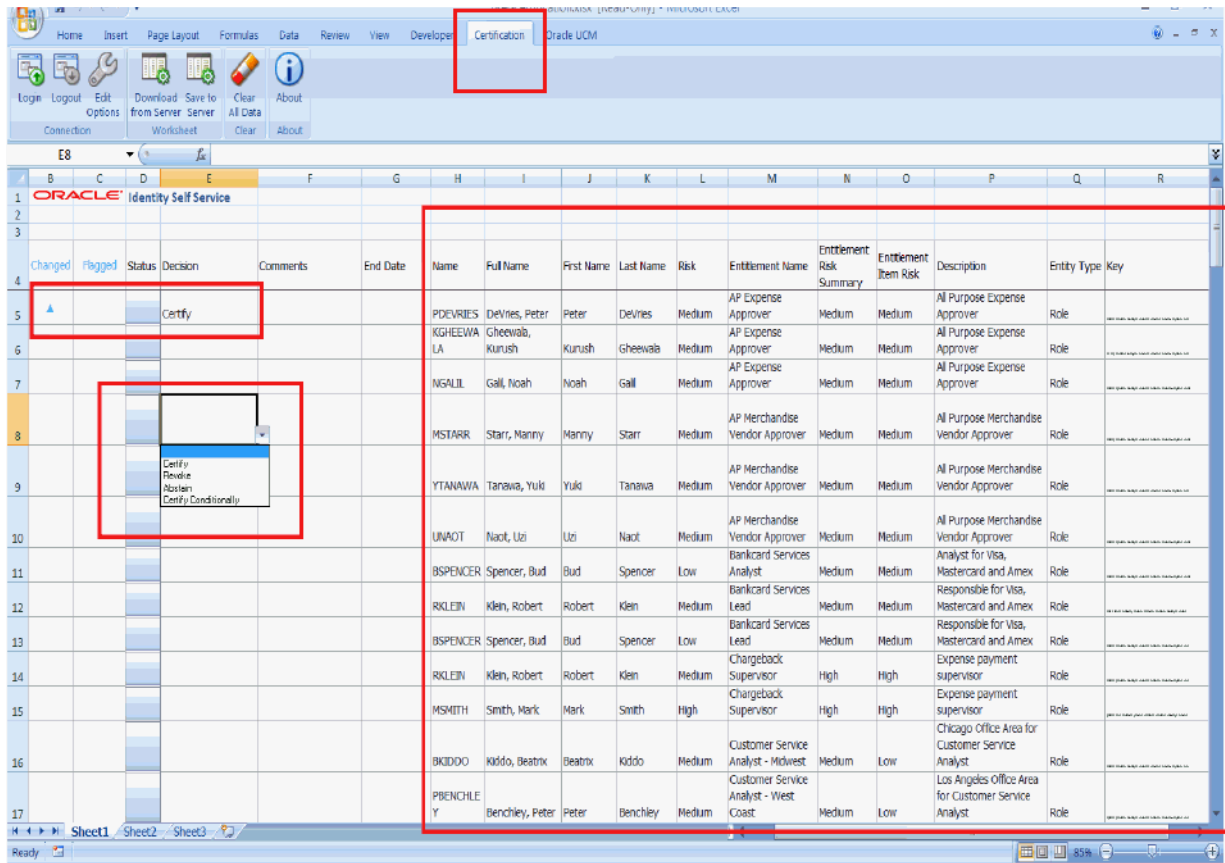
- The option to download user certification data to your local computer and work on it in an offline mode is available for user certifications only. This functionality is not available for role, application instance, and entitlement certifications.
  - For this functionality to work, you must have Microsoft Excel 2007 or 2010. To configure Microsoft Excel for this functionality:
    1. Ensure that the prerequisites described in "Configuring Excel to work with ADF Desktop Integration" in the *Oracle Fusion Middleware Desktop Integration Developer's Guide for Oracle Application Development* are met.
    2. Perform the one-time configuration, as described in "How to Install Runtime Edition of ADF Desktop Integration" in the *Oracle Fusion Middleware Desktop Integration Developer's Guide for Oracle Application Development*.
  - For applications running in an environment using Oracle Access Manager, ensure that the URL for the ADF Desktop Integration Remote servlet is configured as a protected resource for Oracle Access Manager. The ADF Desktop Integration Remote servlet is:  
`http://IDM_HOST.domain.com:OIM_PORT/identity/adfdiRemoteServlet`
- 
- 

When the **Enable Interactive Excel** option is enabled, the **Download to Editable Excel** menu option is available in the Actions menu in the certification detail and certification summary pages of the user certification.

To work on a user certification in offline mode:

1. Open a user certification from the Dashboard or Pending Certifications page.
2. From the Actions menu, select **Download to Editable Excel**. A message box is displayed with the options to open or save the file.
3. Select **Open with**.
4. Make sure that **Microsoft Office Excel** is selected instead of Microsoft Office Excel (Default). Microsoft Office Excel (Default) is the version of Excel for which the plugin for this functionality is not enabled.
5. Click **OK**. A message box is displayed asking whether you want to connect to the corresponding server where the application is running and from where the spreadsheet was downloaded.
6. Click **Yes**. The page to login to Oracle Identity Self Service is displayed. This provides an extra layer of security before you can download the data to work on.
7. Login to Oracle Identity Self Service by providing the credentials. The user certification data is downloaded into a spreadsheet.
8. Click the **Certification** tab. This displays the list of options available when you work on a record. [Figure 12-1](#) shows the Certification tab.

Figure 12–1 The Certification Tab



9. Select the decisions from the drop-down for each user. When a decision is selected, the Changed column displays a flag that indicates the change. The area highlighted in grey color is a read-only area and no changes can be made there.

Decisions other than Certify cannot be updated unless certain conditions are met, and as a result, the data upload will fail. To view these errors, double-click the error field under the status column. Then, you can perform the necessary action to fix it before trying to upload again. The actions can be:

- Revoke: Comments are required.
- Abstain: Comments are required.
- Certify Conditionally: Comments and an end date are required.

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**Note:** User-defined field (UDF) data for both user and catalog will show up in the spreadsheet as read-only columns.

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10. When you finish selecting the decisions, you can upload the data back to the server by clicking the **Save to Server**. The user data is updated on the user certification screens.

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**Note:** When you upload the spreadsheet data, if the application instance and entitlement decisions are different, the decisions for entitlements may be over-ridden on the server side depending on which data gets uploaded to the server first. In other words, data downloaded in a particular order is uploaded in that particular order.

For example, if you revoke an entitlement and certify the account as Certify Conditionally, the entitlement could also be certified as Certify Conditionally if the account is updated last in the server, after the entitlement has been updated.

As a work around, you can download the Excel file again to verify the final value updated on the server.

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If you try to download the spreadsheet for a certification that has already been completed, then a different version of the spreadsheet is downloaded, in which all the columns are marked as read-only and the **Save to Server** button is not available.

## 12.6 Generating Certification Reports

Oracle BI Publisher reports are used for identity certification. These reports select data from the certification tables of the Oracle Identity Manager database.

There are specific templates to control the format and content of reports. For example, many of the certification reports have a template that includes details from action history for each line-item and detail, and another template that does not.

There are a list of predefined or default certification reports in Oracle Identity Manager. For more information about the default certification reports, see "Certification Reports" in the *Administering Oracle Identity Manager*.

This section contains the following topics:

- [Generating Certification Reports From the Dashboard](#)
- [Generating Exported Certification Reports From the Certification Pages](#)

### 12.6.1 Generating Certification Reports From the Dashboard

To generate certification reports by using the Dashboard:

1. In Oracle Identity Self Service, click the **Compliance** tab. Click the **Identity Certification** box, and select **Dashboard**.
2. Search and select the certification for which you want to generate the report. The Detailed Information section is displayed for the selected certification.
3. Click the **Reports** tab.
4. Select Report Type as Complete Certification, Certified, Revoked, Abstained, or Certified Conditionally.
5. From the Report Format Output list, select the format in which you want to generate the report, such as HTML or PDF.
6. Select the **Display Action History** option to include in the report the action history or trail of actions taken by all reviewers on the certification. Deselecting this option does not show the action history in the certification report.

7. Click **Generate Report**. The certification information is exported to the selected option, such as HTML or PDF.

**Tip:** On selecting Excel as the report format in step 5, an error message is displayed on opening the report. This is a security alert from Microsoft and can be ignored. However, if you want to avoid the message, then perform the following steps:

1. Go to Windows registry.
2. Search and navigate to the  
HKEY\_CURRENT\_USER\Software\Microsoft\Office\12.0\Excel\Security  
key.
3. Set the following value:  
(DWORD) "ExtensionHardening" = 0

## 12.6.2 Generating Exported Certification Reports From the Certification Pages

To generate certification reports by using the Inbox:

1. In Oracle Identity Self Service, click the **Self Service** tab. Click the **Certifications** box. The Pending Certifications page is displayed.
2. Click an in-progress certification task name to open Page 1 of the certification task.
3. From the Actions menu, select Export to PDF or Excel.

The exported certification tasks in PDF or Excel is equivalent to Complete Certification Report.



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## Managing Identity Certification

This chapter describes the concepts related to identity certification, the configuration tasks required for identity certification. It contains the following topics:

- [Certification Concepts](#)
- [Configuring Certifications](#)
- [Managing Certification Definitions](#)
- [Scheduling Certifications](#)
- [Understanding How Risk Summaries are Calculated](#)
- [Understanding Closed-Loop Remediation and Remediation Tracking](#)
- [Understanding Event Listeners](#)
- [Configuring Event Listeners and Certification Event Trigger Jobs](#)
- [Configuring Certification Reports](#)
- [Understanding Multi-Phased Review in User Certification](#)
- [Understanding Certification Oversight](#)
- [Troubleshooting Identity Certification](#)

### 13.1 Certification Concepts

The concepts related to identity certification are described in the following sections.

#### 13.1.1 Line of Business and Line Item

LOB is a category of industry or business function. For example, an LOB manager is oriented to a business function within an enterprise, such as Sales.

A line item is a row of data that appears on Page One of a certification. Each line item collects or groups together according to the type of certification the set of privilege-assignments related to a particular identity or privilege. A reviewer can open any line-item to see its line item details. For example, within phase one of a user certification, each line item represents a user. Opening the user details displays the access-privileges of that user.

### 13.1.2 Certification Task

Certification task consists of a set of work to be done within a certification process. Each set of line-items that is assigned to a particular reviewer initiates a Service-Oriented Architecture (SOA) task that contains that particular set of line items and that is routed to SOA Inbox of that particular reviewer. The SOA component also notifies the reviewer that a certification task has been assigned to the reviewer.

### 13.1.3 Certification Object

Certification object is a generated certification that is assigned to a particular certifier or primary reviewer. Each certification object consists of:

- A unique certification ID
- A set of line-items, each of which contains a set of details

### 13.1.4 Certification Definition

Certification definition is a named set of parameters that is used as input to a certification job to generate certification objects. A certification definition specifies the following:

- The type of certification to generate, such as user certification, role certification, application instance certification, or entitlement certification
- Selection criteria that describe which line items, for example users, to select
- Content-restriction criteria that describe which details to select for each line item
- Other parameters that control the generation of certification objects or the behavior of review tasks

### 13.1.5 Certification Jobs

Certification jobs are used to create certifications as requested or as scheduled. A certification job is a background execution-task that generates certification objects based on a specified certification definition. Certification jobs can be:

- Scheduled to run at regular intervals, such as weekly, monthly, or quarterly, as required
- Run immediately from the Scheduler section of Oracle Identity System Administration
- Triggered from an event-listener action

You can create and run certification-generation jobs to create certifications as requested or as scheduled. You can enable and run the risk-aggregation job to calculate the risk-values of entities, such as users, accounts, role-assignments, and entitlement-assignments.

### 13.1.6 Closed-Loop Remediation

Closed-loop remediation is a feature that utilizes the provisioning system of Oracle Identity Manager to automatically revoke accounts, roles, and entitlements based on the results of the Oracle Identity Manager certification process.



### 13.1.7 Remediation Tracking

You can use the request catalog to track the remediation status of revoked accounts, access within accounts, or roles. This records whether and when each revocation request is fulfilled.

### 13.1.8 Event Listener

Event listener is a service that responds to changes in users. Event listeners are supported for all certification types.

Each event listener for certification contains:

- The selection-criteria specified by an administrator
- The certification definition to use in response

### 13.1.9 Certification Authorization

The following Oracle Identity Manager admin roles grant the assignee privileges required to administer the certification feature and monitor the progress of certification instances:

- **Certification Administrator:** The Certification Administrator admin role grants the assignee super-user privileges for the certification feature. In particular, this admin role grants access to the certification configuration and scheduler in the Oracle Identity Manager System Administration. This role also grants full access to certification where you can view or take action on any certifications.
- **Certification Viewer:** The Certification Viewer is a read-only role, allowing a compliance administrator to view new, in progress, and completed certifications.

See "Security Architecture" in the *Oracle Fusion Middleware Developing and Customizing Applications for Oracle Identity Manager* for detailed information about the permissions and associated authorization policies of the Certification Administrator and Certification Viewer admin roles.

## 13.2 Configuring Certifications

This section contains the following topics:

- [Prerequisites for Configuring Certifications](#)
- [Configuring Certification Options](#)

### 13.2.1 Prerequisites for Configuring Certifications

Configuring certifications has the following prerequisite steps:

- [Marking a Catalog Item as Certifiable](#)
- [Setting the Certifier in the Request Catalog](#)
- [Setting User Manager and Organization Certifier](#)
- [Setting User Attributes for Certification Snapshot](#)
- [Setting Risk Levels for Individual Entities](#)
- [Tagging Attributes](#)
- [Configuring the Availability of Identity Certification](#)

- [Configuring Reminders, Notifications, Escalations, and Expiry for Certifications \(Optional\)](#)

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**Note:** Some of the preconfiguration steps require you to use the request catalog. For detailed information about the request catalog, see the following sections:

- ["Requesting Access"](#) on page 6-1
  - ["Managing the Access Request Catalog"](#) in *Administering Oracle Identity Manager*
- 
- 

### 13.2.1.1 Marking a Catalog Item as Certifiable

A requestable entity, such as role assignment, role membership, application instance, or entitlement, is available for certification only after it is marked as certifiable in the request catalog. Any entity that is not marked as certifiable does not appear in the certification.

By default, all items in the catalog are marked as certifiable. You can deselect the **Certifiable** option if you do not want a certification task to be generated for that entity.

To mark an entity as certifiable:

1. Login to Oracle Identity Self Service.
2. Navigate to the request catalog page.
3. Search and select the application instance or entitlement that you want to set as certifiable.

To modify the Certifiable option for roles, open the role details page, and then set the Certifiable option in the Catalog Attributes section.

4. Click the info (i) icon to open the Detailed Information tab for the selected catalog item.
5. Under Detailed Information, select the **Certifiable** option.
6. Click **Apply**.

### 13.2.1.2 Setting the Certifier in the Request Catalog

When you set a user as the certifier for an entity and select some of the options for selecting reviewers, such as Role Certifier or Application Instance Certifier, the user is automatically set as the certifier or primary reviewer for certifying that entity. For example, if user John Doe is selected as the certifier for the Vision Developers role, then John Doe is automatically set as the primary reviewer for certifying the Vision Developers role depending on the selection in the Reviewers screen of creating certifications. In this example, after the user is set as the certifier for the Vision Developers role and you are creating a Role Certification, selecting the Role Certifier option will pick up this field.

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**Note:** Setting the certifier in the request catalog is required if you want to use some of the options for selecting reviewers in the certification creation screen, such as Role Certifier or Application Instance Certifier.

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To set the certifier in the catalog:

1. In Oracle Identity Self Service, navigate to the Catalog page.
2. Search and select the role, application instance, or entitlement for which you want to set the certifier.
3. For the Certifier User field, click the lookup icon. From the lookup, search and select a user that you want to set as certifier for the selected entity.

---

**Note:** The Certifier Role field available in the Detailed Information section of the catalog is not used in Oracle Identity Manager 11g Release 2 (11.1.2.3.0).

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4. Click **Apply**.

### 13.2.1.3 Setting User Manager and Organization Certifier

The user manager and organization certifier are available for selection as the primary reviewer in the certification creation process.

User manager is the user selected in the Manager field in the Attributes tab of the User Details page in Oracle Identity Self Service. If Jane Doe is specified as the manager for Terence Hill, then while creating a user certification definition, as described in ["Creating Certification Definitions"](#) on page 13-10, when you select user manager as the primary reviewer, Jane Doe is automatically set as the primary reviewer for the certification tasks generated for Terence Hill.

The organization certifier is the user selected in the Certifier User Login field in the Attributes tab of the Organization Details page in Oracle Identity Self Service. If Robert Klein is specified as the organization certifier for the Vision North organization, then while creating the certification definition, when you select organization certifier as the primary reviewer, Robert Klein is automatically set as the primary reviewers for the certifications tasks generated for Vision North.

---

**Note:**

- Setting the user manager or organization certifier is required if you want to use the Reviewer option of User Manager or Organization Certifier. Otherwise, this is not required.
  - Role organization certifier does not support the Hierarchy aware option. For the organization certifier, the role must be available in the organization. In other words, the specific organization must be specified for the role. Otherwise, certification will not be generated. Make sure that the role and organization are linked and organization has the certifier user assigned.
- 

### 13.2.1.4 Setting User Attributes for Certification Snapshot

Certification snapshots the following user attributes in Oracle Identity Manager:

```
UserManagerConstants.AttributeName.USER_KEY.getId();
userManagerConstants.AttributeName.USER_ORGANIZATION.getId();
userManagerConstants.AttributeName.USER_LOGIN.getId();
userManagerConstants.AttributeName.MANAGER_KEY.getId();
userManagerConstants.AttributeName.STATUS.getId();
userManagerConstants.AttributeName.EMAIL.getId();
userManagerConstants.AttributeName.FIRSTNAME.getId();
userManagerConstants.AttributeName.LASTNAME.getId();
```

```

UserManagerConstants.AttributeName.DISPLAYNAME.getId();
UserManagerConstants.AttributeName.EMPTYTYPE.getId();
UserManagerConstants.AttributeName.PHONE_NUMBER.getId();
UserManagerConstants.AttributeName.EMPLOYEE_NUMBER.getId();
UserManagerConstants.AttributeName.USER_UPDATE.getId();
UserManagerConstants.AttributeName.USER_CREATEBY.getId();
UserManagerConstants.AttributeName.USER_UPDATEBY.getId();
UserManagerConstants.AttributeName.USER_CREATED.getId();
UserManagerConstants.AttributeName.DEPARTMENT_NUMBER.getId();
UserManagerConstants.AttributeName.LOCALITY_NAME.getId();
UserManagerConstants.AttributeName.POSTAL_CODE.getId();
UserManagerConstants.AttributeName.STATE.getId();
UserManagerConstants.AttributeName.STREET.getId();
UserManagerConstants.AttributeName.USER_COUNTRY.getId();
UserManagerConstants.AttributeName.LOCALE.getId();
UserManagerConstants.AttributeName.TITLE.getId();
UserManagerConstants.AttributeName.GENERATION_QUALIFIER.getId();
UserManagerConstants.AttributeName.COMMONNAME.getId();
UserManagerConstants.AttributeName.HIRE_DATE.getId();
UserManagerConstants.AttributeName.ACCOUNT_STATUS.getId();
UserManagerConstants.AttributeName.MIDDLENAME.getId();

```

All other user attributes can be added to the certification snapshots if the attributes are marked as certifiable. These attributes are stored along with the other user defined attributes. Note that marking an attribute as certifiable can impact performance, and therefore, it is recommended to mark the attributes as certifiable only if required.

### 13.2.1.5 Setting Risk Levels for Individual Entities

To set the risk levels for individual entities:

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**Note:** See "[Understanding How Risk Summaries are Calculated](#)" on page 13-22 for information about the impact of setting risk levels and how Oracle Identity Manager processes risk levels to arrive at risk summaries.

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1. In Oracle Identity Self Service, navigate to the Catalog page.
2. Search and select the role, application instance, or entitlement for which you want to set the risk level.
3. Under Detailed Information, from the Risk Level list, select **High Risk**, **Medium Risk**, or **Low Risk**.
4. Click **Apply**.

After setting the risk level for an individual entity, you must run the Risk Aggregation scheduled job so that the new risk level is correctly picked up when new certifications are created. Note that existing certification objects do not reflect the new risk level.

### 13.2.1.6 Tagging Attributes

Accounts, IT resources, and entitlements must be tagged for certification in the Design Console. Without tagging, certification for the entities are not generated.

You can check if the accounts, IT resources, and entitlements are already tagged by following the navigation in the Design Console as described in this section. If the entities are already tagged, then you can skip this section. Otherwise, configure account and IT resource tagging by performing the steps in this section.

---



---

**Note:** For the certification creation to work, the value of the following properties must be set to `true`, as described in the procedure in this section.

- Entitlement
  - ITResource
  - AccountName
- 
- 

To configure account and IT resource tagging:

1. Login to the Design Console.
2. Under Development Tools, click **Form Designer**.
3. Click the search icon on the top. The Form Designer Table is displayed with a list of all available forms.
4. Open the child process form, and click **Create New Version**.
5. Click the **Properties** tab.
6. Locate only one entitlement field per form, click **Add Property**, and add the `Entitlement = true` property setting.

If there are multiple entitlement child forms, then add one `Entitlement = true` property setting per entitlement form.

7. Save the child form, and click **Make Version Active**.

---



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**Note:** If there are multiple child forms, update all of them by repeating steps 4 through 7 before going to the next step.

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8. Select the parent forms for each connector that is installed. The parent form has the User ID fields to store the account name in the target system, for example, `UD_ADUSER` and `UD_EBS_USER`.
9. Select a form. A new Form Designer tab opens.
10. Click **Create New Version**. In the popup, enter a name, for example, `v2`. Click the save icon. Close the popup.
11. In the Current version list, make sure that the newly created version `v2` is selected.
12. Click the **Properties** tab.
13. Locate the field that uniquely identifies the account in the target system, such as `UserID`, `UserName`, and `AccountName`, which are typical fields in the default connectors. Click **Add Property**, and add the `AccountName = true` property setting.
14. Locate the IT resource field. For most connectors, this is identified by the text `ITResourceLookupField` as a property for the target system. Click **Add Property**, and add the `ITResource = true` property setting.
15. Save the parent form. Click **Make Version Active**.
16. Repeat steps 3 through 11 for each IT resource.

### 13.2.1.7 Configuring the Availability of Identity Certification

The certification feature is part of Compliance in Oracle Identity Manager. Therefore, the certification feature is available when the value of the `Identity Auditor Feature Set Availability` system property is set to `TRUE`. When the value of this property is `TRUE`, role lifecycle management, Segregation of Duties (SoD), and identity certification are enabled.

If you change the value of this property, then you must restart Oracle Identity Manager server.

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---

**Note:** For information about system properties and setting the values of system properties, see "Managing System Properties" in *Administering Oracle Identity Manager*.

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### 13.2.1.8 Configuring Reminders, Notifications, Escalations, and Expiry for Certifications (Optional)

If email notifications is configured in SOA, as described in "Configuring SOA Email Notification" in *Administering Oracle Identity Manager*, then email notifications are sent by default in the following scenarios:

- When a task is assigned to a user
- When a task is completed

By default, two reminders are sent one day after and two days after the certification has been created. There is no escalation or expiry set for the certifications by default.

To change the default configuration for certification:

1. Login to Oracle SOA Composer with Admin credentials, such as `weblogic`, by navigating to the following URL:  
`http://HOST_NAME:PORT_NUMBER/soa/composer`
2. Click **Open**, and select **Open Tasks**. The Select a Task to open dialog box is displayed.
3. Select `CertificationProcess_rev1.0`, and click **Open**. The `CertificationTask : Event Driven Configuration` page is displayed.
4. In the Notification Settings section, perform the following:
  - a. The assignees of the task are selected as recipients of the notification for Assign and Complete tasks. To change the default setting, you can select the task status in the Task Status column, and select the notification recipient in the Recipient column. You can click the pencil icon for each task to edit the default notification message, and click **OK**.
  - b. In the drop-down below, change the default setting for reminders.
5. In the Expiry and Escalation Policy section, you can change the default value for escalation and expiry.
6. Click **OK**.
7. Click **Save**, and then click **Commit**.

## 13.2.2 Configuring Certification Options

You can set default options in Oracle Identity Self Service that are used during certification creation based on the type of certification. These options can be changed during the certification creation process for each certification definition.

To configure certification options:

1. Login to Oracle Identity Self Service.
2. Click the **Compliance** tab.
3. Click the **Identity Certification** box, and select **Certification Configuration**. The Certification Configuration page is displayed.
4. Set the configuration properties, as listed in [Table 13–1](#).

---

**Note:** All the options listed in [Table 13–1](#) set the default configuration that is picked up during certification creation based on the type of certification. These can be changed during the certification creation process for each certification definition.

---

**Table 13–1** Configuration Properties

Property	Description
Password required on sign-off	Select to require users to sign off in order to complete a certification.
Allow comments on certify operations	Select to allow the user to type a comment if a certify action is selected. By default, a comment is required.
Allow comments on all non-certify operations	Select to allow the user to type a comment if a revoke action is selected. By default, a comment is required.
Verify employee access	Select to control if you want to view Page 1 in the user certification view. By default, this option is selected. This option is used in user certification.
Prevent self certification	Select to prevent reviewers from being able to certify their own access. Enabling this option allows the certification creator to assign the certification to an alternate reviewer.  When the Prevent self certification option is enabled, the <b>User Manager</b> option is selected by default, which means that the assignee is the user's manager.  To select any other user, select <b>Select User</b> . Click the Search icon to search and select an alternate reviewer.
User and Account Selections	Select any one of the following: <ul style="list-style-type: none"> <li>■ Include only active users and active accounts</li> <li>■ Include any user with active accounts</li> <li>■ Include all users and all accounts</li> </ul>
Allow advanced delegation	Select to enable the ability to delegate a line item to others. This option is not selected by default.  When delegation is enabled, there is a verification stage, in which the certification is routed to the primary reviewer with all the decisions of the delegates as well as the primary reviewer's own decisions for final sign off.

**Table 13–1 (Cont.) Configuration Properties**

Property	Description
Allow multi-phased review	Select to enable collaborative certification, for which in phase 1 the business review is completed and that is followed by a phase 2 for the technical review followed by an optional final review, which is completed by the business reviewer again. This is used only in user certification only.
Allow reassignment	Select to enable the ability to reassign the line items in page 1 of certifications to other users. When line items are reassigned, the items are removed from the certification task and are no longer visible within the review cycle for the original certification object. A new certification object is created containing the reassigned line items. The new assignee is the primary reviewer for the new certification object.
Allow auto-claim	Select to mark all the items in page 1 as claimed by default. By default, auto claim is enabled. If you deselect this option, then users have to manually claim each item before they can view the item details.
Perform closed loop remediation	Select to specify closed-loop remediation when certification is completed.
Enable Interactive Excel	Select to enable ADF DeskTop Integration (DI) for user certification that provides the user the option to download certification data to Microsoft Excel worksheet and work on it in offline mode. For information about working on certifications in an offline mode, see <a href="#">"Completing User Certifications in Offline Mode"</a> on page 12-9.
Enable Certification Reports	Select to enable the creation of certification reports and display the Reports tab in the Detailed Information section of the Certification Dashboard.
Composite Name	Select the SOA composite for the certification workflow. The default composite is default/CertificationProcess. You can select another version of the composite to enable certification oversight in the certification workflow. To do so, select the CertificationOverseerProcess composite. This composite specifies that the reviewer's manager is the overseer for the certification process.

5. Click **Save**.

## 13.3 Managing Certification Definitions

This section contains the following topics:

- [Creating Certification Definitions](#)
- [Modifying Certification Definitions](#)
- [Deleting Certification Definitions](#)

### 13.3.1 Creating Certification Definitions

Creating certification definitions is described in the following sections:

- [Creating a User Certification Definition](#)
- [Creating a Role Certification Definition](#)
- [Creating an Application Instance Certification Definition](#)



- [Creating an Entitlement Certification Definition](#)

### 13.3.1.1 Creating a User Certification Definition

To create a user certification definition:

1. Log in to Oracle Identity Self Service.
2. Click the **Compliance** tab.
3. Click the **Identity Certification** box, and select **Definition**. The Certification Definitions page is displayed.
4. From the Actions menu, select **Create**. Alternatively, click **Create** on the toolbar. The General Details page of the New Certification wizard is displayed.
5. Enter values as follows:
  - **Certification Name:** Enter a name for the certification.
  - **Type:** Select **User** to create a user certification.
  - **Description:** Optionally enter a description for the new user certification.
6. Click **Next**. The Base Selection page of the New Certification wizard is displayed.
7. Select a user-selection strategy in the Base Selection section, as follows:
  - **Users from All Organizations:** Selects users from all organizations in Oracle Identity Manager.
  - **Only Users from Selected Organizations:** Allows you to manually select specific organizations. You can select the organizations by clicking **Add**. To remove a selected organization, click **Remove**.

---

**Note:** When completing a certification, a certifier cannot see the organization name or any other details about the organization unless that person is also the organization administrator for that organization. If the certifier is not the organization administrator, only the users in the organization are displayed.

---

  - **All users:** Selects all the users in Oracle Identity Manager.
  - **Users criteria:** Selects all the users that meet the given search condition.
  - **Selected users:** Allows you to select specific users from a list of users in the system. To select users, click **Add**. To remove selected users, click **Remove**.
8. Select any one of the following options to specify constraints to the base selection:
  - Users with Any Level of Risk
  - Only Users with High Risk Summaries
  - Only Users with High Risk Roles
  - Only Users with High Risk Application Instances
  - Only User with High Risk Entitlements
9. Click **Next**. The Content Selection page is displayed.
10. Select the following:
  - **Include users with no accounts:** This option includes the users who have no access within the certification.

- **Limit the role-assignments to certify for each user:** The list of roles per user can be restricted to the selected option. For example, if you select selected roles and add one role, then that role only will show up in the certification if it is marked as certifiable in the catalog even if the user has other roles.
- **Include accounts with no certification attributes:** This includes the accounts in the selected application instances even if there are no certifiable entitlements (access) within the target system. If you deselect this option, then accounts in the target system that do not have any entitlements do not appear in the certification.
- **Limit the application-instance-assignments to certify each user:** Similar to roles, you can restrict the application instances you want to see within the certification.
- **Limit the entitlement-assignments to certify for each user:** You can limit or filter the entitlements that you can see within the certification by selecting any one of the following options:
  - **All Entitlements:** Select to show all entitlements.
  - **Entitlements Outside Roles:** Select to show only the entitlements that are not provisioned by roles/access policies, and exclude access granted via roles/access policies.
  - **Accounts with High-Risk Entitlements:** Select to show account information for high-risk entitlements only.
  - **Only High-Risk Entitlements:** Select to show only the high-risk entitlements, and exclude the entitlements with medium and low risk levels.
  - **Only High-Risk Entitlements Outside Roles:** Select to show only high-risk entitlements, exclude the entitlements with medium and low risk levels, and exclude all entitlements (with any risk) granted via roles/access policies.

---

**Note:** The **Only High-Risk Entitlements Outside Roles** option is available only after you apply Oracle Identity Manager bundle patch 11.1.2.3.170117.

For instructions on downloading and applying the 11.1.2.3.170117 bundle patch, refer to the bundle patch documentation.

---

- **No Entitlements:** Select to exclude all entitlements.
- **Selected Entitlements Only:** Select to choose the entitlements that you want to show. To do so, click **Add**. In the Add Entitlements dialog box, search and select the entitlements, and then click **Select**.
- **Selected Entitlements Criteria:** Selects all of the entitlements that meet the given search condition.

---

**Note:** The **Selected Entitlements Only** option is available only after you apply Oracle Identity Manager bundle patch 11.1.2.3.180331.

For instructions on downloading and applying the 11.1.2.3.180331 bundle patch, refer to the bundle patch documentation.

---

11. Click **Next**. The Configuration page is displayed.
12. Select the options, as described in [Table 13–1, "Configuration Properties"](#), and click **Next**. The Reviewers page is displayed.

If you want to enable multi-phased review with advanced delegation, then select the **Allow advanced delegation** and **Allow multi-phased review** options.

If you want to enable certification oversight in the certification workflow, then click the search icon, search for the available composites, select the **CertificationOverseerProcess** composite, and click **Add**.

13. From the Reviewer list, select a primary reviewer. The primary reviewer can be user manager, organization certifier, or any other user that you select.

For multi-phased review, perform the following:

- a. In the Phase 1 section, select any one of the following to select the Phase 1 reviewer:
    - **User Manager**: Selects the user's manager as the Phase 1 reviewer.
    - **Organization Certifier**: Selects the organization certifier as the Phase 1 reviewer.
    - **Search for a User**: Selects any user as the Phase 1 reviewer that you search and specify by clicking the lookup icon.
  - b. In the Phase 2 (Optional) section, select the **Enable Phase 2 review process** option to specify that the privilege certifier will be the primary Phase 2 reviewer for each user privilege, such as role, account, and entitlement assignments.
  - c. In the Final Review (Optional) section, select the **Enable Final Review process** option to enable a final review process by the Phase 1 reviewer for final validation and sign off.
14. Click **Next**. The Incremental page is displayed.
  15. Select **Enabled** for Generate Incremental Data. This setting enables certifiers to certify or revoke only changes or inclusions made to a certification. It eliminates the need to review the access of users who have been certified.

When Incremental Certification is enabled, it takes the following parameters:

- **Incremental Date Range** (required): This includes:
  - **Since Last Base** (default): When this option is selected, current access of the user is compared against the last certification of the same type, which was created without enabling incremental and all the incremental certifications since then, to the current date when the certification is created.
  - **Since Date**: When this option is selected, current access of the user is compared against all the certifications of the same type since the given date and when the certification is created.
- **Show Previous Value** (optional): This includes:
  - **Disabled** (default): When this is deselected, then the values that have already appeared in the previous certifications based on the Incremental Date Range parameter are not included in the certification.

- **Enabled:** When this is selected, all the current values that existed in previous certifications are displayed with the last decisions taken for those access.

16. Click **Next**. The Summary page is displayed with the details of the user certification.
17. Click **Create** to create the user certification. A message is displayed asking if you want to create a certification job based on the definition and run it now. You can edit the job name, and click **Yes** to run the certification job.

Alternatively, click **No** to create a certification definition without creating and running the scheduled job. With this option, you must manually create a certification job later.

The new user certification definition is displayed in the Certification Definition page.

---

**Note:** For multi-phased review with advanced delegation:

- The certification is not 100% complete till the Phase 2 reviewers or technical reviewers have completed all the reviews. The certification status displays the phase and percentage completion in each phase the certification is in during the two phased review. To view this status, click the In Progress certification in the Inbox or Dashboard.
  - The certification goes to the Phase 1 primary reviewer for final review. In Page 2, the Phase 1 primary reviewer can review the actions made by the users in the first and second phases (greyed out) as well as the system-generated default actions, which the Phase 1 primary reviewer can override.
- 

### 13.3.1.2 Creating a Role Certification Definition

To create a role certification definition:

1. Log in to Oracle Identity Self Service.
2. Click the **Compliance** tab.
3. Click the **Identity Certification** box, and select **Definition**. The Certification Definitions page is displayed.
4. From the Actions menu, select **Create**. Alternatively, click **Create** on the toolbar. The General Details page of the New Certification wizard is displayed.
5. Enter values as follows:
  - **Name:** Enter a name for the certification.
  - **Type:** Select **Role** to create a role certification definition.
  - **Description:** Optionally enter a description for the new role certification definition.
6. Click **Next**. The Base Selection page of the New Certification wizard is displayed.
7. In the Base Selection section of the page, select a role selection strategy from the list, as shown:
  - **All Roles in All Organizations:** Selects all roles in all the organizations in Oracle Identity Manager.

- **Roles from Selected Organizations:** Selects the roles from the organizations that you specify. Click Add to search and select an organization. To remove a selected organization, click Remove.

---

**Note:** When completing a certification, a certifier cannot see the organization name or any other details about the organization unless that person is also the organization administrator. If the certifier is not the organization administrator, only the users in the organization are displayed.

---

- **All Roles:** Selects all roles in Oracle Identity Manager.
- **Role criteria:** Selects all of the roles that meet the given search condition. You can preview the results of this selection.

**Tip:** You can save the search and use it for specifying role criteria while creating another role certification definition. The saved search is not mapped to a specific certification. To use the role criteria saved search for another role certification definition:

1. During certification creation, after selecting the **Role Criteria** option and specifying the search condition, you must click **Update and Preview Results**. This associates the selected criteria with the definition.
  2. If you want to save this search criteria as a template, then click **Save**. You are prompted to enter a name for the template that you are saving. You can then save this template and reuse it.
  3. The saved template is not specific to a certification. While creating another certification, this template is displayed by default. If you create another new template, then that template is displayed. In other words, the latest template is displayed for all criteria screens associated with a type of certification.
  4. If you do not want to use the generated template, then change the value in the Saved Search list to something else that you want to use.
- **Selected roles:** Allows you to manually select the roles.
8. Select any one of the following options to specify constraints:
    - Roles with Any Level of Risk:
    - Only High Risk Roles:
  9. Click **Next**. The Content Selection page is displayed.
  10. Select **Certify Policies** to specify the certification of policies. Select **Certify Members** to specify the certification of role members.
  11. Click **Next**. The Configuration page is displayed.
  12. Select the configuration options, as described in [Table 13-1, "Configuration Properties"](#), and click **Next**. The Reviewers page is displayed.
 

From the Reviewer list, select a primary reviewer. The primary reviewer can be entitlement certifier, role certifier, or any other user that you select.
  13. Click **Next**. The Incremental page is displayed.
  14. Select **Enabled** for Generate Incremental Data. This setting enables certifiers to certify or revoke only changes or inclusions made to a certification. It eliminates the need to review the access of users who have been certified.

When Incremental Certification is enabled, it takes the following parameters:

- **Incremental Date Range** (required): This includes:
  - **Since Last Base** (default): When this option is selected, current access of the user is compared against the last certification of the same type, which was created without enabling incremental and all the incremental certifications since then, to the current date when the certification is created.
  - **Since Date**: When this option is selected, current access of the user is compared against all the certifications of the same type since the given date and when the certification is created.
- **Show Previous Value** (optional): This includes:
  - **Disabled** (default): When this is deselected, then the values that have already appeared in the previous certifications based on the Incremental Date Range parameter are not included in the certification.
  - **Enabled**: When this is selected, all the current values that existed in previous certifications are displayed with the last decisions taken for those access.

15. Click **Next**. The Summary page is displayed with the details of the user certification.

16. Click **Create**. A message is displayed asking if you want to create a certification job based on the definition and run it now. You can edit the job name, and click **Yes** to run the certification job.

Alternatively, click **No** to create a certification definition without creating and running the scheduled job. With this option, you must manually create a certification job later.

The new role certification definition is displayed in the Certification Definition page.

### 13.3.1.3 Creating an Application Instance Certification Definition

To create an application instance certification definition:

1. Log in to Oracle Identity Self Service.
2. Click the **Compliance** tab.
3. Click the **Identity Certification** box, and select **Definition**. The Certification Definitions page is displayed.
4. From the Actions menu, select **Create**. Alternatively, click **Create** on the toolbar. The General Details page of the New Certification wizard is displayed.
5. Enter values as follows:
  - **Name**: Enter a name for the certification.
  - **Type**: Select **Application Instance** to create an application instance certification definition.
  - **Description**: Optionally enter a description for the new application instance certification definition.
6. Click **Next**. The Base Selection page of the New Certification wizard is displayed.
7. In the Base Selection section of the page, select an application instance selection strategy from the list, as shown:

- **All Application Instances:** Selects all application instances in Oracle Identity Manager.
  - **Selected application instances only:** Allows you to manually select the application instances. Click **Add** to search and select the application instances. To remove any selected application instance, click **Remove**.
8. Select any one of the following options to specify constraints:
    - Application Instances with Any Level of Risk
    - Only High Risk Application Instances
  9. Click **Next**. The Content Selection page is displayed.
  10. Select any one of the following:
    - **Accounts of Users from All Organizations:** Selects the accounts of users from all organizations in Oracle Identity Manager.
    - **Accounts of Users from Selected Organizations:** Allows you to manually select the organizations whose user accounts will be certified.
    - **Accounts of All Users:** Selects the accounts of all users in Oracle Identity Manager.
    - **Accounts of Selected Users:** Allows you to manually select the users whose accounts will be certified.
  11. Click **Next**. The Configuration page is displayed.
  12. Select the configuration options, as described in [Table 13–1, "Configuration Properties"](#), and click **Next**. The Reviewers page is displayed.
  13. From the Reviewer list, select a primary reviewer. The primary reviewer can be application instance certifier, user manager, application instance certifier, organization certifier, or any other user that you select.
  14. Click **Next**. The Incremental page is displayed.
  15. Select **Enabled** for Generate Incremental Data. This setting enables certifiers to certify or revoke only changes or inclusions made to a certification. It eliminates the need to review the access of users who have been certified.

When Incremental Certification is enabled, it takes the following parameters:

- **Incremental Date Range** (required): This includes:
  - **Since Last Base** (default): When this option is selected, current access of the user is compared against the last certification of the same type, which was created without enabling incremental and all the incremental certifications since then, to the current date when the certification is created.
  - **Since Date:** When this option is selected, current access of the user is compared against all the certifications of the same type since the given date and when the certification is created.
- **Show Previous Value** (optional): This includes:
  - **Disabled** (default): When this is deselected, then the values that have already appeared in the previous certifications based on the Incremental Date Range parameter are not included in the certification.

- **Enabled:** When this is selected, all the current values that existed in previous certifications are displayed with the last decisions taken for those access.

16. Click **Next**. The Summary page is displayed with the details of the user certification.
17. Click **Create**. A message is displayed asking if you want to create a certification job based on the definition and run it now. You can edit the job name, and click **Yes** to run the certification job.

Alternatively, click **No** to create a certification definition without creating and running the scheduled job. With this option, you must manually create a certification job later.

The new application instance certification definition is displayed in the Certification Definition page.

### 13.3.1.4 Creating an Entitlement Certification Definition

To create an entitlement certification definition:

1. Log in to Oracle Identity Self Service.
2. Click the **Compliance** tab.
3. Click the **Identity Certification** box, and select **Definition**. The Certification Definitions page is displayed.
4. From the Actions menu, select **Create**. Alternatively, click **Create** on the toolbar. The General Details page of the New Certification wizard is displayed.
5. Enter values as follows:
  - **Name:** Enter a name for the certification.
  - **Type:** Select **Entitlement** to create an entitlement certification definition.
  - **Description:** Optionally enter a description for the new entitlement certification definition.
6. Click **Next**. The Base Selection page of the New Certification wizard is displayed.
7. In the Entitlement Selection Strategy section of the page, select a strategy from the list, as shown:
  - **Selected Entitlements:** Allows you to manually select the entitlements. Click **Add** to search and select the entitlements. To remove any selected entitlement, click **Remove**.
  - **All Entitlements with Selected Certifiers:** Allows you to select a list of certifiers and include all the entitlements for which they are specified as *Certifier User* in the catalog.
  - **Entitlements associated with certifiers in selected organizations:** Allows you to limit the certification to only the entitlements that are certified by members of the specified organization(s). Under Selected Organization, click **Add** to search and select the organization. To remove any selected organization, click **Remove**.
  - **All Entitlements:** Allows you to select all entitlements from the catalog.
  - **Entitlement Criteria:** Allows you to select all of the entitlements that meet the given search condition.



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**Note:** The **Entitlements Criteria** option is available only after you apply Oracle Identity Manager bundle patch 11.1.2.3.180331.

For instructions on downloading and applying the 11.1.2.3.180331 bundle patch, refer to the bundle patch documentation.

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8. (Optional) Under Selection Constraints, deselect the **Include entitlements provisioned by access policy** option to exclude the entitlements from the certification definition that are provisioned by access policies.

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**Note:** The **Include entitlements provisioned by access policy** option is available only after you apply Oracle Identity Manager bundle patch 11.1.2.3.170117.

For instructions on downloading and applying the 11.1.2.3.170117 bundle patch, refer to the bundle patch documentation.

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Deselecting this option filters out all access granted via access policies during certification creation. For example, entitlement (Ent1) was granted to users (User1 and User2), and User2 got this Ent1 via role/policy. When you create an entitlement certification with this option deselected to exclude access policy grants, then the newly created certification will contain only User1.

This option is selected by default, which means that the certification definition will include all entitlements that are provisioned by access policy and other mechanisms, such as direct provisioning, request, or reconciliation.

9. Select any one of the following options to specify constraints:
- Entitlements with Any Level of Risk
  - Only High Risk Entitlements
10. Click **Next**. The Content Selection page is displayed.
11. Click **Next**. The Configuration page is displayed.
12. Select the configuration options, as described in [Table 13–1, "Configuration Properties"](#), and click **Next**. The Reviewers page is displayed.
13. From the Reviewer list, select a primary reviewer. The primary reviewer can be entitlement certifier or any other user that you select.
14. Click **Next**. The Incremental page is displayed.
15. Select **Enabled** for Generate Incremental Data. This setting enables certifiers to certify or revoke only changes or inclusions made to a certification. It eliminates the need to review the access of users who have been certified.

When Incremental Certification is enabled, it takes the following parameters:

- **Incremental Date Range** (required): This includes:
  - **Since Last Base** (default): When this option is selected, current access of the user is compared against the last certification of the same type, which was created without enabling incremental and all the incremental certifications since then, to the current date when the certification is created.

- **Since Date:** When this option is selected, current access of the user is compared against all the certifications of the same type since the given date and when the certification is created.
  - **Show Previous Value** (optional): This includes:
    - **Disabled** (default): When this is deselected, then the values that have already appeared in the previous certifications based on the Incremental Date Range parameter are not included in the certification.
    - **Enabled:** When this is selected, all the current values that existed in previous certifications are displayed with the last decisions taken for those access.
16. Click **Next**. The Summary page is displayed with the details of the user certification.
  17. Click **Create**. A message is displayed asking if you want to create a certification job based on the definition and run it now. You can edit the job name, and click **Yes** to run the certification job.

Alternatively, click **No** to create a certification definition without creating and running the scheduled job. With this option, you must manually create a certification job later.

The new entitlement certification definition is displayed in the Certification Definition page.

### 13.3.2 Modifying Certification Definitions

To modify a certification definition:

1. In the **Compliance** tab of Oracle Identity Self Service, click the **Identity Certification** box, and select **Definition**. The Certification Definitions page is displayed.
2. Select the certification definition that you want to modify.

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**Note:** If there is a periodic scheduled task tied to this definition, then the next execution of the scheduled task will be run by using the modified changes.

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3. From the Actions menu, select **Edit**. Alternatively, you can click **Edit** on the toolbar.
 

A message is displayed stating that the definition is referenced by scheduled jobs and event listeners and asking for confirmation. This message is not displayed if you try to edit a certification definition for which you have not created certification jobs.
4. Click **Edit** to confirm. The Certification Definition pages are displayed on which you can edit the values in the fields.
5. Edit the fields to modify the certification definition by navigating through the pages by clicking the **Next** and **Back** buttons.
6. When finished, click **Save**. A message is displayed stating that the definition has been successfully updated.
7. Click **OK**.

### 13.3.3 Deleting Certification Definitions

To delete a certification definition:

1. In the **Compliance** tab of Oracle Identity Self Service, click the **Identity Certification** box, and select **Definition**. The Certification Definitions page is displayed.
2. Select the certification definition that you want to delete.
3. From the Actions menu, select **Delete**. Alternatively, you can click **Delete** on the toolbar.

A message is displayed stating that the definition is referenced by scheduled jobs and event listeners and asking for confirmation. This message is not displayed if you try to delete a certification definition for which you have not created certification jobs.

4. Click **Delete** to confirm. A message is displayed asking for confirmation.
5. Click **OK**.

## 13.4 Scheduling Certifications

Certifications are scheduled as part of the certification creation process. For more information, see "[Creating Certification Definitions](#)" on page 13-10. Certifications can be scheduled to run once, or to repeat on a daily, weekly, or monthly basis.

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**Note:** You must create a certification definition before you can schedule it. See "[Creating Certification Definitions](#)" on page 13-10.

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After you create a certification definition by clicking Create on the Summary page of the New Certification wizard, a message is displayed asking if you want to create a certification job and run it. You can edit the scheduled job name in the Job Name box. When you click Yes, the certification job is created for the new certification definition and is run. You can go to the Scheduler section in Oracle Identity System Administration and search for the job. The default name of the job is `Cert_DEFINITION_NAME`.

The certification job is created based on the Certification Creation Task scheduled task. This scheduled task is used to create new certification jobs for a defined certification definition. When the job runs, the certification definition is used and certifications are generated.

See "Predefined Scheduled Tasks" in *Administering Oracle Identity Manager* for information about the Certification Creation Task scheduled task. You can modify the certification jobs from the Scheduler section of Oracle Identity System Administration. See "Modifying Jobs" in *Administering Oracle Identity Manager* for details.

You can also schedule a certification from the Scheduler section of Oracle Identity System Administration. To do so, follow the instructions in "Creating Jobs" in *Administering Oracle Identity Manager*. In this method, select Certification Creation Task in the Task field in the Create Job page.

When you modify a certification job, specify the certification definition name in the Certification Definition Name field of the Job Details page.

## 13.5 Understanding How Risk Summaries are Calculated

You can directly assign high, medium, and low risk levels to roles, application instances, and entitlements, as well as to certain predefined risk factors. A risk-aggregation job calculates Risk Summaries for the remaining higher-order data objects that are required to support identity certification. These objects include every user, user-role assignment, account, and entitlement-assignment in Oracle Identity Manager. During identity certification, certifiers use Risk Summaries to separate high-risk certification items from medium-risk and low-risk items.

This section describes how the system processes risk levels to arrive at Risk Summaries. It also describes the risk-aggregation job, which you can run manually or on a scheduled basis.

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**Note:** Roles, application instances, and entitlements are *metadata* objects, whereas users, accounts, and entitlement-assignments are *instance-data* objects.

Metadata objects are structural objects that represent and describe your information systems within Oracle Identity Manager, whereas instance-data objects are the individual instances of application data that populate the systems. For example, consider a customer service application (a resource) that has a predefined role that enables users to create trouble tickets (an entitlement). In this example, a single resource object represents the application and a single entitlement object represents a specific privilege within that application.

Now consider there might be thousands of user accounts on this resource, some subset of which has the entitlement-assignment that allows the user to create a trouble ticket. A single resource (metadata object) can have multiple accounts (instance-data objects), and a single entitlement (metadata object) can have multiple assignment instances (instance-data objects). Oracle Identity Manager calculates the risk levels for instance-data objects because it would not be feasible for a human to process risk levels for every user, account, and entitlement-assignment on a recurring basis.

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### 13.5.1 Understanding Item Risk and Risk-Factor Mappings

Item risk and the risk-factor mappings are settings that are under your direct control.

#### 13.5.1.1 Setting Item Risk

*Item risk* refers to the risk levels that you and other administrators can assign to specific roles, application instances, and entitlements.

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**Note:** Three bars signifies high risk, two bars signifies medium risk, one bar signifies low risk.

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If you do not directly assign an item-risk level to a metadata object, then Oracle Identity Manager assigns a default item-risk level for you. Roles, application instances, and entitlements can each have a default value.

To set the default item-risk level for the metadata objects:

1. Login to Oracle Identity Self Service.

2. Click the **Compliance** tab.
3. Click the Identity Certification box, and select **Risk Configuration**. The Risk Configuration page is displayed.
4. Select the High, Medium, or Low risk radio buttons for each item.
5. Click **Save**.

You should reserve high item-risk levels for metadata objects that confer highly-restricted privileges to users. Note that setting a high item-risk level on an object will cause its parent object to also have a high Risk Summary value. Similarly, setting a medium item-risk level on an object will cause its parent object to have at least a medium Risk Summary value. In order for a higher-order object to have a low Risk Summary value, all of the objects under it in the system hierarchy would have to have low risk settings.

### 13.5.1.2 Understanding Risk-Level Mappings (Risk Factors)

Risk-Factor Mappings are settings that map risk levels to certain predefined conditions. For example, you might configure "items with open audit violations" as high risk, whereas "items that are closed as risk-accepted" you might configure as medium risk.

Generally speaking, you should reserve high Risk-Factor levels for conditions in which privileges are being extended to users that may be irregular or dangerous.

There are three Risk-Factor categories in Oracle Identity Manager, and each category contains multiple settings. Risk-Factor categories are described in [Table 13-2](#).

**Table 13-2 Risk Factors**

<b>Risk Factor</b>	<b>Description</b>
Provisioning Scenarios / Assignment Scenarios	<p><i>Provisioning Scenarios</i> define the risk levels that should be associated with the method or mechanism used to assign a role, account, or entitlement-assignment to a user.</p> <p>For example, you might configure a risk level of <i>Medium</i> for objects that are provisioned directly by an administrator, and a risk level of <i>Low</i> for objects that are provisioned based on Policies that are tied to Roles. You might configure a risk-level of <i>High</i> for objects that are pulled into Oracle Identity Manager via reconciliation.</p>
Last Certification Action	<p>Defines risk level based on the status of the last certification for the account, entitlement-assignment, or user-role assignment under consideration.</p> <p>For example, configure a risk level of <i>Low</i> for any item for which the previous certification decision was to approve, and configure a risk level of <i>Medium</i> for any item for which the previous certification decision was to <i>Certify Conditionally</i>. Finally, you might configure a value of <i>High</i> for any item for which the previous certification decision was <i>Abstain</i> or <i>Revoke</i>.</p>
Identity Audit Violation	<p>Defines risk levels associated with causes contained in open identity audit violations. A cause may be associated with an account, entitlement-assignment, or user-role assignment. For example, you might configure a risk level of High for objects that have an associated cause in an active violation, because such a situation represents a Segregation of Duties (SoD) violation. Note that if an object has no associated causes in an open identity audit violation, then this risk factor is skipped when computing risk summaries.</p>

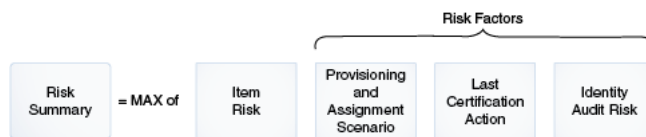
**Note:** Changing Risk-Level mappings on the Risk Configuration page in the UI can cause major ripple effects that impact Risk Summaries throughout Oracle Identity Manager. During your initial setup you should configure mappings on the Risk Level configuration page, and then avoid making additional unnecessary changes. See ["Understanding How Changing Risk Configuration Values Impacts the System"](#) on page 13-25 for more information about the ripple effects that impact Risk Summaries.

### 13.5.2 Understanding Risk Aggregation and Risk Summaries

The Risk Aggregation Task scheduled job processes Item-Risk levels and Risk-Factor levels, and calculates Risk Summaries for each higher-order object that supports identity certification.

Risk aggregation Task is used to seed the predefined Risk Aggregation Job. You do not need to create new jobs using this task. When a job of this task type runs, it calculates the risk of all the users in Oracle Identity Manager since they have been last updated. See "Predefined Scheduled Tasks" in *Administering Oracle Identity Manager* for information about this scheduled task. You can enable the Risk Aggregation Task scheduled job by following the instructions in "Disabling and Enabling Jobs" in *Administering Oracle Identity Manager*.

In the first phase of risk aggregation, the Risk Aggregation Task scheduled job evaluates each individual object's Item-Risk level and its three Risk-Factor levels, and assigns the highest of the four levels to the object's Risk Summary property. A Risk Summary value is calculated for each individual User object, User-Role Assignment object, Account object, and entitlement-assignment object. The following diagram illustrates this process.

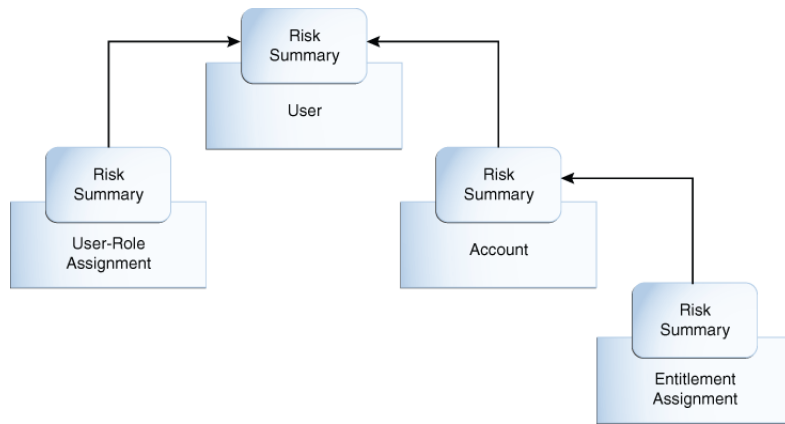


Once Risk Summaries are calculated for every object, the next phase of aggregation begins, in which the Risk Summary of each individual object rolls up to the Risk Summary of the parent object that contains it.

Above the entitlement-assignment level, each data object's Risk Summary value contributes to the Risk Summary of the parent-object that contains it. For example, Account objects are one hierarchy-level up from entitlement-assignment objects, and User objects are one hierarchy level up from there. So, the Risk Summary of every entitlement-assignment object within an Account object contributes to the Risk Summary for that Account, and, similarly, the Risk Summary for every Account object within the User object contributes to the Risk Summary for that User.

User objects are also one level above User-Role Assignment objects, so the Risk Summary for every User-Role Assignment object contributes to the Risk Summary for that User.

The following diagram illustrates this process.



In the diagram, the Risk-Summary value of the entitlement-assignment rolls up to the Account object. The Risk-Summary values of Accounts and the Risk-Summary values of User-Role Assignments roll up to the Risk Summary of any associated User.

### 13.5.3 Understanding How Changing Risk Configuration Values Impacts the System

There are three main actions or system events that can impact Risk Summary values. Depending on the action or system event, the impact can be minor, moderate, or major. Each action or event and its consequences is described in [Table 13-3](#).

**Table 13–3 Actions or System Events That can Impact Risk Summary Values**

Action or Event	Impact	Description
Users and/or Oracle Identity Manager make changes to individual entitlements	Minor	<p>Applies to changes to individual data objects, such as accounts, entitlements, and user-role assignments. These values might change frequently. For example, the following types of changes are included in this category:</p> <ul style="list-style-type: none"> <li>■ An entitlement is added to or removed from an account.</li> <li>■ An account is added to or removed from a user.</li> <li>■ A role assignment is added to or removed from a user.</li> <li>■ A risk factor on an individual data object changes.</li> </ul> <p>The impact within Oracle Identity Manager is relatively minor because the changes happen at the level of each individual entitlement.</p>
An administrator makes item-risk changes to roles, resources, and entitlements	Moderate	<p>Applies to situations where you or another administrator change the risk-level of a role, an application instances, or an entitlement.</p> <p>The ripple-effect of these changes can be large. Changing the risk level on a metadata object can change the item-risk level on every data-object associated with the metadata object. Changing the risk level on a data-object may affect its risk summary and, in turn, the risk summary of every other data-object that contains it.</p> <p>For example, changing the risk level on an entitlement definition will change the Item Risk on every assignment of that entitlement that corresponds to it. Changing the Item Risk on an entitlement-assignment may change its Risk Summary. Changing the Risk Summary of an entitlement-assignment may affect the Risk Summary of the parent Account. Changing the Risk Summary of an Account may affect the Risk Summary of the User who owns the Account.</p>
An administrator makes configuration changes to the Risk-Level Mappings	Major	<p>Applies to situations where you or another administrator change the Risk-Level Mappings on the Risk Configuration page in Oracle Identity System Administration.</p> <p>Changing the risk level associated with a specific value of a specific risk factor could affect the risk summary of any user-role assignment, account, or entitlement-assignment that has that risk-factor value. Changing the risk summary of any user-role assignment, account, or entitlement assignment could in turn affect every user associated with an affected user-role assignment, account, or entitlement assignment.</p> <p>For this reason, you should change risk-level mappings only rarely.</p>

## 13.6 Understanding Closed-Loop Remediation and Remediation Tracking

Closed-loop remediation is a feature that allows you to directly revoke roles, application accounts, and entitlements from the provisioning solution as a result of roles and entitlements revoked during the certification process.

When a certification is complete and all primary review tasks have been signed off, Oracle Identity Manager attempts to remove every user and privilege for which the final decision was to revoke. Requests are created to de-assign any role-assignment that is revoked, to de-provision any account that is revoked, to remove any entitlement-assignment that is revoked, and to delete or disable any user that is revoked. Specifically:



- Revoking a user deletes/disables the user and removes all privileges of that user.
- Revoking a user's role-assignment removes that member from the role. This might eventually cause provisioning to remove accounts and entitlement-assignments granted by the role (if those accounts and entitlement-assignments are not otherwise granted to the user.)
- Revoking a user's account deletes/disables the account. This implicitly removes/disables any entitlement-assignments associated with that account.

If the account is deleted from the target system when the certifier revokes the account as a result of closed-loop remediation, Oracle Identity Manager supports changing the behavior to disable the account., as described in "[Disabling Accounts When Revoked](#)" on page 13-28.

- Revoking a user's entitlement-assignment removes the assignment from the account that contains it.

The remediation status can be tracked in the request catalog for auditing purposes. Each remediation-request contains the certification ID of the certification that spawned the request, which allows the Dashboard to link to the Track Requests page of Oracle Identity Self Service to display the status of all the requests associated with the certification that is being displayed.

### 13.6.1 Configuring Challenge Workflows

By default, closed-loop remediation functions in the following way:

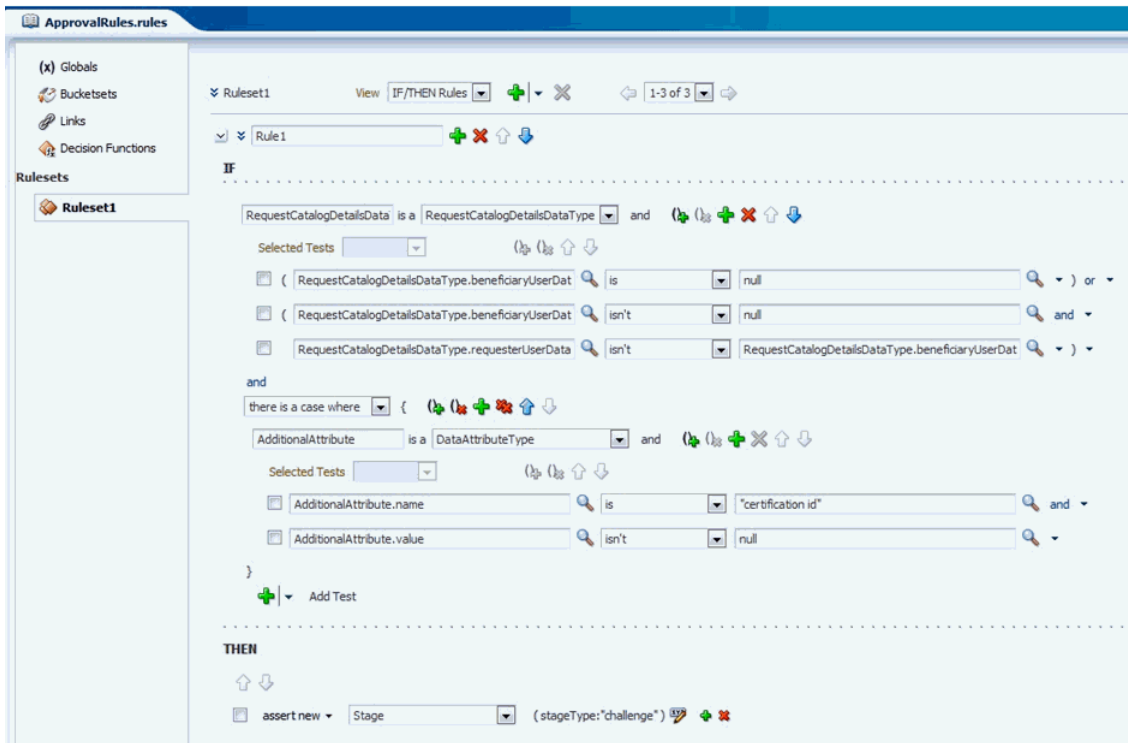
- If the person who signed-off the certification (final reviewer) is the user's (beneficiary's) manager, then the requests are auto-approved.
- If the final reviewer is not the user's manager, then the requests go through a challenge workflow, which is as follows:
  1. A request is sent to the user (beneficiary) whose access is revoked.
  2. If the beneficiary accepts the revoke by approving the request, then closed-loop remediation takes place and access is revoked.
  3. If the beneficiary challenges the revoke by rejecting the request, then the request is sent back to the person who signed off the certification (final reviewer).
    - a. If the final reviewer accepts the challenge, then the process stops and the beneficiary's access is not revoked.
    - b. If the final reviewer rejects the challenge, then closed-loop remediation takes place and the access is revoked.

This logic is defined within the DefaultRequestApproval composites in SOA by using rules. You can modify the rules to have all the closed-loop remediation requests to be auto-approved. To do so:

1. Login to Oracle SOA Composer with Admin credentials, such as weblogic, by navigating to the following URL:  
`http://HOST_NAME:PORT_NUMBER/soa/composer`
2. Click **Open**, and select **Open Rules**. The Select a Dictionary to open dialog box is displayed.
3. For the DefaultRequestApproval\_rev2.0 composite, click **Ruleset1** in the Contents column.

4. Click **Edit**.
5. Expand Rule 1, as shown in [Figure 13-1](#):

**Figure 13-1 Rule for Auto-approval**



6. Under THEN, click the pencil icon.
7. In the pop-up, change the value from challenge to auto. This value specifies that all the closed-loop remediation requests will be auto-approved, and the challenge workflow will not be invoked.
8. Click **OK**.
9. Click **Save**, and then click **Commit**.

### 13.6.2 Disabling Accounts When Revoked

When closed-loop remediation is enabled and the account is deleted from the target system when the certifier revokes an account, Oracle Identity Manager supports changing the behavior to disable the account. This can be done in one of the following ways:

- Keep closed-loop remediation enabled, change the behavior of the process task for revocation to disable the account. Alternatively, you can set the Undo Task for account creation to be the default Disable User task as opposed to the revoke task. This means that Oracle Identity Manager will never trigger an actual revoke, but will only disable.
- Disable closed-loop remediation by deselecting the **Perform closed loop remediation** option in the Certification Configuration page, and maintain a report that lists the remediation of revoked accounts. You can then implement a process that will perform the disable outside of the certification workflow either through Oracle Identity Manager or through any other mechanism. If performed outside of

Oracle Identity Manager, then perform a reconciliation to keep the account status in sync. In addition, you can possibly implement a scheduled job that will read the contents of the report and automatically disable the accounts.

## 13.7 Understanding Event Listeners

The Event Listener mechanism detects specific business events and stores the event details for certification. The stored event details are called Certification Event Triggers, and these are processed into certifications by the Certification Event Trigger Task, running as a scheduled job. The business events currently detected by event listeners are modifications of Oracle Identity Manager users, either individually or in bulk.

Every event listener contains a ruleset and a certification definition, as described in "[Managing Certification Definitions](#)" on page 13-10. The ruleset contains one or more rules, each of which tests one or more conditions and specifies an action to take if its conditions are met. The standard action for event listener rules is to store a Certification Event Trigger that identifies the event listener, the user or users that were modified, and the certification definition that should be generated in response to this event.

Triggers accumulate between runs of the Certification Event Trigger Job. When the job runs, it groups the triggers by their event listener identifiers, and then processes each group according to the corresponding event listener's properties. By default, the trigger job creates a certification for all users in each group of triggers, using the listener's certification definition as the template for the certification. After this, the triggers from the completed group are deleted.

There are several properties that affect how an event listener's triggers will be processed by the trigger job. The first property determines whether the listener is in active or disabled state. If a listener is disabled, then its rules are no longer evaluated when business events occur, and therefore, no triggers are stored from that listener. If a listener stored triggers before being disabled, then the next trigger job run deletes those triggers without processing them. When a disabled listener is set back to active state, it can once again store triggers that are processed by the trigger job.

Another event listener property that affects trigger processing is its Event Count, which limits how many triggers may be processed for the listener during a single run of the trigger job. This setting is optional. If it is not specified, then the number is unlimited. If the event count is specified, then it represents the maximum number of triggers that may be processed. When the trigger job runs, it checks the listener's event count for each batch of triggers, and if the number of triggers exceeds the event count, then the triggers are discarded without generating a certification. This feature is useful for preventing huge certifications from being created when users are modified in bulk.

Finally, the trigger job itself may be configured to process the triggers from certain event listeners, but not others. This feature is controlled by a Certification Event Trigger Task parameter titled Event Listener Name List. If this parameter is left blank in the definition of the trigger job, then triggers from all listeners are processed when the trigger job runs. If the name list is defined, then only the listeners in that list have their triggers processed when the job runs; triggers from other listeners are ignored and retained for future trigger job runs. When multiple instances of scheduled jobs are defined for the Certification Event Trigger Task, then each list of event listeners can have its triggers processed on the most appropriate schedule.

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**Note:** If a listener name appears in more than one Event Listener Name List, or if one of the trigger jobs has an empty Event Listener Name List, then the first of these jobs to run consumes all of that listener's triggers. Triggers are always discarded after the first time they are processed.

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## 13.8 Configuring Event Listeners and Certification Event Trigger Jobs

This section contains the following topics:

- [Creating an Event Listener](#)
- [Modifying an Event Listener](#)
- [Deleting an Event Listener](#)
- [Configuring Certification Event Trigger Jobs](#)

### 13.8.1 Creating an Event Listener

To create a new event listener:

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**Note:** Before creating an event listener, you must create a user certification definition or an application instance definition that will be executed when the Certification Event Trigger job is run.

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1. Login to Oracle Identity Self Service.
2. Click the **Compliance** tab.
3. Click the **Identity Certification** box, and select **Event Listeners**. The Event Listeners page is displayed.
4. From the Actions menu, select **Create**. Alternatively, click **Create** on the toolbar. The Create Event Listener page is displayed.
5. In the Listener Properties section, specify the name with which the event will be identified, and the description.
6. From the Certification Definition list, select a certification definition that will be executed.
7. In the Event Count box, enter the maximum number of events that should be processed for this listener at the time the Certification Event Trigger Job runs. Use this to avoid executing an action for bulk updates.
8. From the Status list, select Active or Disabled status.
9. In the Event Trigger section, add a rule containing conditions that will be evaluated when an event takes place. For example, when a user is updated, a condition can check if the user's title property or location property has changed. Another example can be change of manager for a user.

To add a condition:

- a. Click the plus (+) icon, and change Rule 1 to a rule name, for example, Manager Change Condition.
- b. Click the expand icon to the left of the condition.
- c. Click the lookup icon to open the Condition Browser.

- d. Click **Modified User, previousValue**. Select **manager**, and click **OK**. This sets `ModifiedUser.previousValue.Manager`.
  - e. Select the condition operation, such as **isn't**.
  - f. Click the second lookup icon, search and select the attribute name and click **OK**, so that the following condition is set:  
`ModifiedUser.previousValue.Manager isn't ModifiedUser.currentValue.Manager`
  - g. Under **THEN**, click the plus (+) icon to the left of **Add Action**.
  - h. Click the down arrow key and select **call**.
  - i. From the list, select **certifyThisUser**.
10. Click **Create** to create the event listener.

When the Certification Event Trigger job is run, a certification will be created for a user whose manager has changed.

An example of the event listener rule can be to check for an attribute's change to a specific value. For example:

```
ModifiedUser.previousValue.country isn't ModifiedUser.currentValue.country and
ModifiedUser.currentValue.country is "Brazil"
```

`ModifiedUser.previousValue.country isn't ModifiedUser.currentValue.country` checks for a change in the Country attribute. Any change causes this condition to evaluate to TRUE. Then, and `ModifiedUser.currentValue.country is "Brazil"` adds a second condition to the rule. This checks whether the attribute has changed to a specific value, for example Brazil. This condition is applicable if some special certification is required for employees moving to Brazil. For other employees who have moved to some other place, the rule's action is not triggered.

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**Note:** User-Defined Fields (UDFs) or custom attributes do not appear in ModifiedUser's lists of current and previous values, but these attributes can be specified in the Event Listener rule conditions. To do so, type an expression in the following format into the rule's condition field:

```
ModifiedUser.{current|previous}Value.get{String|Integer|Long|Date|Boolean}Attribute("NAME")
```

Here, *NAME* is the internal name of the UDF. For example, to retrieve the previous value of a string-valued UDF named FavoriteColor, insert the following expression:

```
ModifiedUser.previousValue.getStringAttribute("FavoriteColor")
```

---

## 13.8.2 Modifying an Event Listener

To modify an event listener:

1. In the **Compliance** tab of Oracle Identity Self Service, click the **Identity Certification** box and select **Event Listeners**. The Event Listeners page is displayed with a list of event listeners.
2. Select the event listener that you want to modify.

3. From the Actions menu, select **Edit**. Alternatively, click **Edit** on the toolbar. The event listener details page is displayed.
4. Edit the values in the fields to modify the event listener.
5. Click **Save**.

### 13.8.3 Deleting an Event Listener

To delete an event listener:

1. In the **Compliance** tab of Oracle Identity Self Service, click the **Identity Certification** box and select **Event Listeners**. The Event Listeners page is displayed with a list of event listeners.
2. Select the event listener that you want to delete.
3. From the Actions menu, select **Delete**. Alternatively, click **Delete** on the toolbar. A message is displayed asking for confirmation.
4. Click **Yes** to confirm.

### 13.8.4 Configuring Certification Event Trigger Jobs

As mentioned in "[Understanding Event Listeners](#)" on page 13-29, the Certification Event Trigger Job offers an optional parameter called Event Listener Name List. If one or more event listener names are supplied in this field, then the trigger job will only process the triggers for those listeners, which implies that you will need multiple trigger jobs to cover processing for your full set of listeners. The sections describes how to set this parameter and how to define multiple trigger jobs. It contains the following sections:

- [Setting the Event Listener Name List](#)
- [Adding More Trigger Jobs](#)

#### 13.8.4.1 Setting the Event Listener Name List

To set the Event Listener Name List:

1. Login to Oracle Identity System Administration.
2. On the left pane, under System Configuration, click **Scheduler**.
3. In the search field, enter `Certification Event Trigger Job`, and perform the search.
4. Click the job name in the search result to display the trigger job details.
5. Scroll down to the Parameters section, where you can see a parameter titled Event Listener Name List (comma separated).
6. Enter one or more event listener names in this field, separated by commas. Make sure to type each listener's name exactly as it appears in the Name column of the Event Listeners table.
7. Click **Apply** to save the changes.

#### 13.8.4.2 Adding More Trigger Jobs

In addition to the predefined instance of the Certification Event Trigger Job, you can create new trigger job instances by performing the following steps:

1. Login to Oracle Identity System Administration.

2. On the left pane, under System Configuration, click **Scheduler**.
3. On the left pane, from the Actions menu, select **Create**. Alternatively, you can click the icon with the plus (+) sign beside the View list.
4. In the Create Job panel, expand the Task field by clicking the icon to its right.
5. In the Search field, enter `Certification Event Trigger Task`, and perform the search.
6. In the search result, click the Certification Event Trigger Task row, and then click **Confirm**.
7. Enter the Job Name and any desired scheduling details for this trigger job instance.
8. In the Event Listener Name List field, enter a comma-separated list of the listener names that this trigger job instance will process.

Every instance of the trigger job can have its own schedule or can be run manually, and can be restricted to handling triggers for a specified subset of listeners. This enables you to trigger different event listeners at different intervals.

## 13.9 Configuring Certification Reports

To configure the display of the Reports tab in the Detailed Information section of the Dashboard:

1. Log in to Oracle Identity System Administration.
2. Click the **Compliance** tab.
3. Click the **Identity Certification** box, and select **Certification Configuration**. The Certification Configuration page is displayed.
4. Select the **Enable Certification Reports** option.
5. Click **Save**.

Reports can be generated in the following formats:

- PDF
- RTF
- HTML
- Microsoft Excel
- CSV

## 13.10 Understanding Multi-Phased Review in User Certification

Collaborative certification or two-phased review with advanced delegation (TPAD) provides the following functionalities:

- Two-phased review, which allows to combine within a single certification the perspectives of business-oriented and technical reviewers.
- Advanced delegation, which allows a certifier to retain overall responsibility while delegating decisions to others. Advanced delegation of individual line-items within a certification allows a reviewer to spread the work among several people who can work simultaneously. This allows those who are responsible for reviewing access within an enterprise to spread the burden and thus complete the work more quickly.

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**Note:** Oracle Identity Manager supports TPAD for user certification only. TPAD is not supported for role certification, application instance certification, and entitlement certification.

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This section describes TPAD in the following sections:

- [Multiple Phases of Review](#)
- [Delegation to Multiple Reviewers Within Each Phase](#)
- [Stages of Certification in TPAD](#)

### 13.10.1 Multiple Phases of Review

Multiple phases of review combines multiple perspectives on the same set of user-access-privileges. For user certification, the phases are:

- **Business Review:** This is the required first phase of review. The business reviewer, typically the manager of each user, views all the certifiable access privileges of a user. First, the manager confirms that the user is a valid holder of privileges, such as an employee, within that enterprise. Then the manager confirms that the user's position within the enterprise justifies the user's access privileges, such as role assignments, account assignments, and entitlement assignments. The business reviewer certifies or approves any privilege that seems appropriate and revokes any privilege that seems unnecessary or unreasonable.
- **Technical Review:** This is an optional second phase of review. The technical reviewer, typically the owner or an authorizer of each privilege, reviews the members of the privilege or the assignments of that privilege to specific users or to specific accounts of specific users. The technical reviewer certifies or approves any privilege that seems appropriate and revokes any assignment of that privilege that seems unnecessary or unreasonable.
- **Final Review:** This is an optional final phase review. If the certification is configured to enable final review, then the primary reviewer from the first phase, for example the manager of each user, can see the decisions that reviewers made in the first two phases and can override those decisions if required.

**See Also:** ["Section 12.1.2, "Who Is Involved in Completing Identity Certifications?"](#) for information about primary reviewer, technical reviewer, final reviewer, and delegated reviewer.

### 13.10.2 Delegation to Multiple Reviewers Within Each Phase

The primary reviewer in Phase One or Phase Two can spread the work to other users in the following ways:

- The primary reviewer can reassign responsibility for any set of line items to another user. Reassignment transfers the responsibility to another person, whereas delegation retains the responsibility with the primary reviewer. Reassignment of line items in Phase One creates a new certification.
- The primary reviewer can delegate each line-item, or any set of line-items, to any user that the primary reviewer selects. This user is called a delegated reviewer. Delegating a line-item marks that line-item as delegated in the primary reviewer's task, and prevents the primary reviewer from acting on that line-item.
- The primary reviewer can undelegate any delegated line-item at any time within the phase before signing off the certification task. Undelegating a line-item



removes it from the delegated reviewer's task, and allows the primary reviewer to act on the line-item, for example, by making certification-decisions or delegating or reassigning it.

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**Note:** The undelegated item must be claimed before the reviewer can view it. If Auto-claim is disabled, then you have to manually claim each item before you can view the item details.

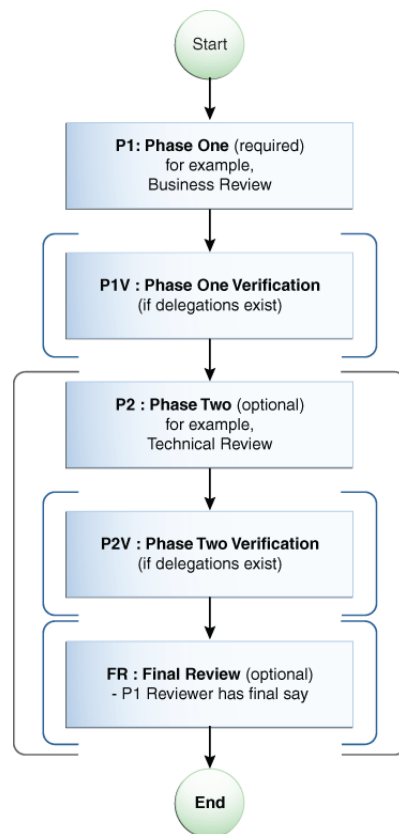
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In Phase One or Phase Two, whenever the primary reviewer delegates line-items and signs off with at least one line-item still delegated, which means that the primary reviewer has not undelegated all of those line-items before signing off, then Oracle Identity Manager generates a review task for Phase-One Verification or Phase-Two Verification, and assigns this task to the primary reviewer. This task allows the primary reviewer to see and override any decision that a delegated reviewer made in that phase.

### 13.10.3 Stages of Certification in TPAD

Figure 13–2 illustrates the stages of certification in TPAD by combining the required Phase One, the optional Phase Two, and the optional Final Review phase that depends on Phase Two, with the conditional verification tasks.

**Figure 13–2 Stages of Certification in TPAD**



As shown in Figure 13–2, the overall sequence of stages within TPAD certification are:

1. **start:** Certification is created, and certification task is generated by running the Certification Creation Task scheduled job.

2. **Phase One Review:** This is always required.
3. **Phase One Verification:** This takes place only if Phase One is completed with delegations.
4. **Phase Two Review:** This is optional depending on configuration.
5. **Phase Two Verification:** This takes place only if Phase Two is completed with delegations.
6. **Final Review:** This is optional depending on configuration and takes place only if Phase Two is completed.
7. **end:** Certification task is completed. If any access has been revoked as a part of the certification completion, then closed-loop remediation takes place.

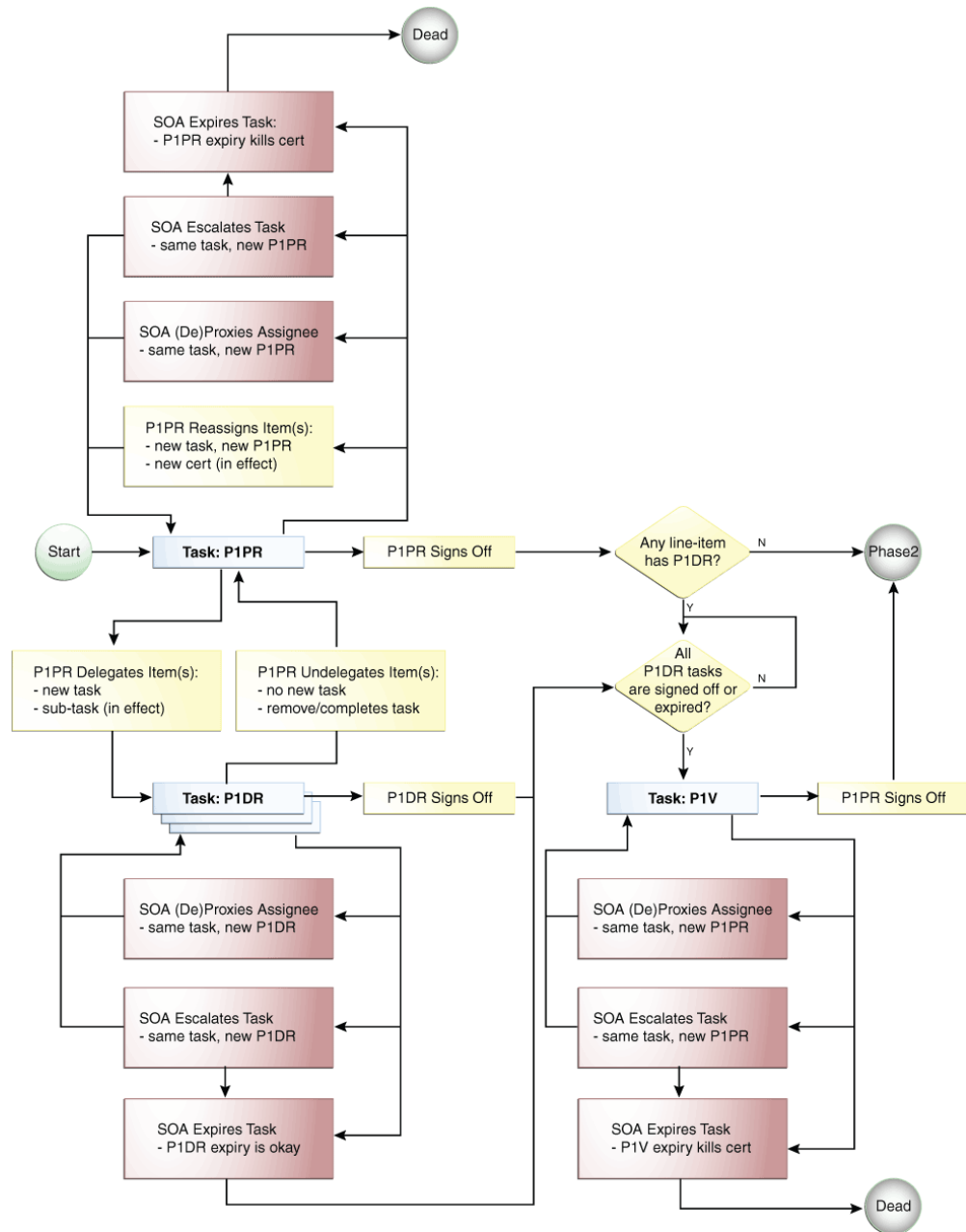
The certification stages in TPAD are described in the following sections:

- [Phase One With Verification](#)
- [Phase Two With Verification](#)
- [Final Review](#)

### 13.10.3.1 Phase One With Verification

[Figure 13–3](#) shows the first phase of certification review with TPAD.

Figure 13-3 Phase One With Verification



Following is the process flow of the Phase One review with verification in TPAD:

1. **Start:** A set of certification objects are generated, and the review process starts. Every line-item within each particular certification object is assigned to a Phase One Primary Reviewer (P1PR).
2. **Task P1PR:** When the scheduled jobs for certification generation are run, Oracle Identity Manager uses Service-Oriented Architecture (SOA) to create a task, for each certification object, which is assigned to the Phase One Primary Reviewer (P1PR).

When the primary reviewer opens the task, the primary reviewer can see every line-item within the certification object. If the primary reviewer opens any

particular line-item, then the primary reviewer can see every line-item-detail for that line-item.

The primary reviewer can act on any line-item within the task. The primary reviewer can delegate any line-item to another person, or can reassign any line-item to another person. By default, the primary reviewer owns every line-item and can decide, such as certify or revoke, the line-item-details.

After decision has been made for each line-item, or each detail for the line-item has a Phase-One Decision, or has been delegated or reassigned, the primary reviewer can sign off or complete the task.

- 3. P1PR Reassigns Item(s):** If the primary reviewer during Phase One reassigns any set of line-items to another person, then Oracle Identity Manager removes those reassigned line-items (and their details) from the original certification and puts them into a new and separate certification. The person to whom the line-items were reassigned becomes the P1PR for that new and separate certification.

The reassigned line-items disappear from the task of the original P1PR, and does not reappear within this review process. Even if the new P1PR reassigns or delegates the line-items back to the original P1PR, this creates a new task for the original P1PR so that it is part of a different review process in the following way:

- If the new P1PR reassigns line-items back to the original P1PR, this will be a new certification with its own P1PR task.
  - If the new P1PR delegates the line-items back to the original P1PR, then this will be a new delegated review (P1DR) task within the review-process of the new P1PR.
- 4. P1PR Delegates Item(s):** If the primary reviewer delegates any set of line-items to another person, then that person is the phase one delegated reviewer (P1DR) for each of those line-items. A new task is created and assigned to the new P1DR.

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**Note:** In order to minimize the number of tasks, it is recommended that you select the set of line-items that you intend to delegate to a particular reviewer. Otherwise, the delegated reviewer can receive any number of tasks, each of which contains some subset of line-items from the same phase of the same certification object.

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When the primary reviewer delegates a particular set of line-items, the line-items are marked as delegated within the task from which the primary reviewer delegated them. The primary reviewer can no longer act within that task on those line-items unless the primary reviewer undelegates them. The primary reviewer has an opportunity during Phase One Verification to see and override the decisions made by any delegated reviewer.

- 5. P1PR Undelegates Item(s):** The primary reviewer can undelegate or take back from a delegated reviewer any line-item that is delegated. Undelegating a line-item allows the primary reviewer to act on that line-item and removes that line-item from the task of the current delegated reviewer, which prevents the delegated reviewer from acting on it further.

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**Note:** The undelegated item must be claimed before the reviewer can view it. If Auto-claim is disabled, then you have to manually claim each item before you can view the item details.

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6. **P1PR Signs Off:** After every line-item has been completed or delegated or reassigned, the primary reviewer can sign off on the task, which completes the task. A line-item is completed when all of its details have a decision for the current phase. At this point, Oracle Identity Manager determines whether or not Phase One Verification (P1V) is required.
7. **SOA (De)Proxies Assignee (P1PR):** A proxy can be assigned for the assigned reviewer, such as P1PR. For example, when the reviewer is scheduled to go on vacation, the reviewer can activate a proxy. When the reviewer returns from vacation, the proxy is deactivated. When the newly assigned (proxy) reviewer opens the task, the proxy reviewer can view and act on each line-item and line-item-details. See [Section 4.5, "Managing Proxies"](#) for information about adding, modifying, and removing proxies.
8. **SOA Escalates Task (P1PR):** The certification task can be escalated depending on configuration of the SOA composite that Oracle Identity Manager uses for certification-review tasks. For example, if the reviewer has not signed off or completed a task within a configured time-limit, SOA can escalate the task and reassign it to the manager of the currently-assigned reviewer. After the task is escalated the maximum number of times or has reached some other condition that terminates escalation, the task expires.
9. **SOA Expires Task (P1PR):** A certification review task can expire in certain conditions. For example, if the reviewer has not signed off a task within a configured time-limit, then the task can expire. If the task is configured to escalate before expiring, then SOA expires the task only after it has escalated the maximum number of times or reaches some other condition that terminates escalation. When a task expires, it cannot be acted upon.
10. **Task: P1DR:** Each delegated-review task contains a set of line-items that the primary reviewer has delegated to the delegated reviewer. When the delegated reviewer opens the task, the delegated reviewer can see only the line-items that are delegated in the particular delegation-event that produced the task. If the phase-one delegated reviewer (P1DR) opens any particular line-item, P1DR can see every detail for that line-item.

The delegated reviewer can act on any line-item within the task. The delegated reviewer cannot delegate any line-item to another person, cannot undelegate any line-item, and cannot reassign any line-item to another person. By default, the delegated reviewer owns every line-item and can decide, such as certify or revoke, its line-item-details. After every line-item has been decided, or all the details for the line-item has a Phase-One Decision, the delegated reviewer can sign off or complete the task.
11. **P1DR Signs Off:** After every line-item within a delegated-review task has been decided, the delegated reviewer can sign off or the task. Every delegated-review task must complete or must expire before the certification review process can proceed to Phase-One Verification.
12. **Any line-item has P1DR:** This branch-point decides whether the Phase One Verification stage is required. This depends on whether any line-item is delegated:
  - If any line-item that is not reassigned remains delegated when the P1PR signs off, then the review process moves to Phase One Verification.
  - If no line-item that is not reassigned remains delegated when the P1PR signs off, then the review-process moves to Phase Two.
13. **All P1DR tasks are signed off or expired:** This branch loops until every Phase One delegated-review task has either been signed off (completed) or has expired.

14. **Task: P1V:** After the primary-reviewer (P1PR) has signed off and every delegated-review-task (P1DR) has either completed or expired, Phase One Verification begins. Another task for the same certification-object is created and assigned to the primary reviewer. Within this task, the primary reviewer can see and override any decision made in Phase One. The primary reviewer also can complete any line-item that no delegated reviewer has completed. The primary reviewer cannot reassign and delegate, and therefore, cannot undelegate any line-item within this task.
15. **P1PR Signs Off (P1V):** After every line-item-detail within the certification-object for every line-item that has not been reassigned to another primary reviewer has a decision, the Phase-One Primary Reviewer can sign off. When the reviewer signs off on the Phase-One Verification task, the certification review process proceeds to Phase Two.
16. SOA can proxy the assignee, and escalate or expire the P1V task (similar to the P1PR task). See steps 7 through 9 for details.

### 13.10.3.2 Phase Two With Verification

Phase Two is an optional, plural, and rotated version of Phase One.

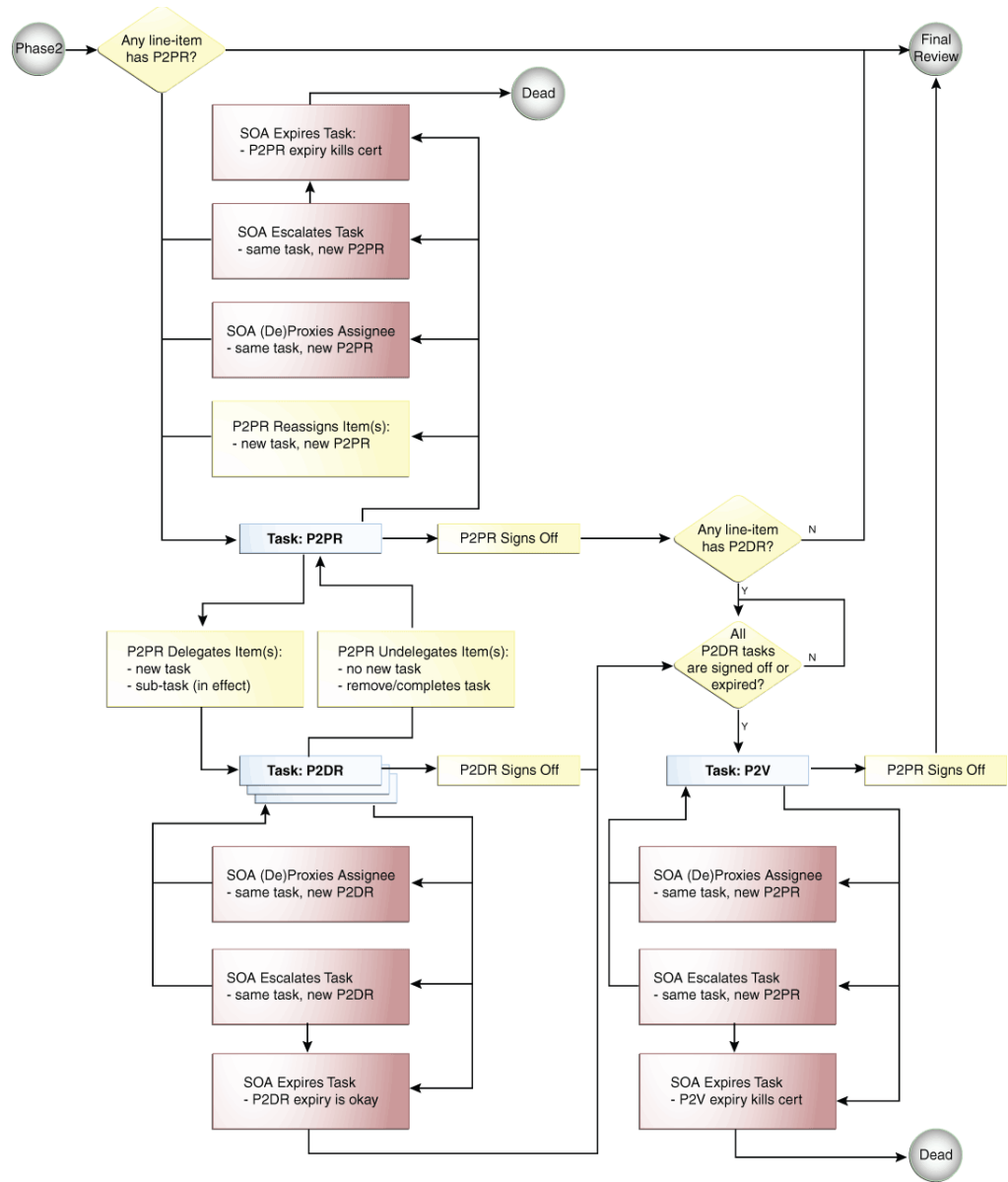
**Optional:** Phase Two is optional because it occurs only if Phase Two is enabled in configuration, the administrator specified a strategy to select a Phase Two Primary Reviewer, and the specified strategy assigned a Phase Two Primary Reviewer to at least one line-item within the certification.

**Plural:** There can be multiple Phase Two Primary Reviewers because each reviewer administers or authorizes a line-item-detail rather than a line-item. For example, in a user certification, each role assignment, account assignment, or entitlement assignment can have a different primary reviewer.

**Rotated:** Each reviewer in Phase Two can see a rotated view. For example, in Phase One of user certification, the business-reviewer can see users as line-items and each user's access-privileges as line-item-details. In Phase Two of user certification, each technical reviewer can see privilege-definitions, such as role, application instance, or entitlement definitions, as line-items and can see members of each privilege as line-item-details. This privilege-centric view is more useful to a technical-reviewer, who can delegate or reassign responsibility for individual privilege-definitions.

[Figure 13–4](#) shows the second phase of certification review with TPAD.

Figure 13-4 Phase Two With Verification



The stages in Phase Two are similar to Phase One, except for the following:

- Task: P2PR:** A review task is generated for each type of privilege for which each Phase Two primary reviewer (P2PR) must review assignments within that certification. When a Phase Two primary reviewer opens a P2PR task, that primary reviewer can see a list of line-items for which that primary reviewer is responsible within the certification object. For example, in Phase Two of a user certification, the Technical Reviewer who opens a P2PR task can see a list of privileges, such as role definitions, application instance definitions, or entitlement definitions, for which that primary reviewer is the certifier and for which that certification object contains assignments. Because this type of certification is user-centric, the rotated view is privilege-centric.

If the primary reviewer opens any particular line-item, the primary reviewer can see every line-item-detail for that line-item. The primary reviewer can act on any line-item within the task. The primary reviewer can delegate any line-item to

another person or can reassign any line-item to another person. By default, the primary reviewer owns every line-item and can decide, such as certify or revoke, its line-item-details.

- **P2PR Reassigns Item(s):** If the primary reviewer in Phase Two reassigns any set of line-items to another person, then that person becomes the new primary reviewer (P2PR) for those line-items. Oracle Identity Manager creates a new primary-review task and assigns it to the new P2PR.

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**Note:** The Reassign operation in Phase Two does not generate a new certification. For example, if a primary technical reviewer reassigns a (rotated) line-item, then this does not split the certification.

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The reassigned line-items disappear from the task of the original P2PR. The line-items are displayed within a separate task that is assigned to the new P2PR.

### 13.10.3.3 Final Review

Final Review is optional and is a tie-breaker. It is the simplest phase in TPAD.

**Optional:** Final Review occurs only if it is enabled in configuration, the administrator specified in the certification definition that Final Review is to be performed, and Phase Two is performed because at least one line-item had a Phase Two Primary Reviewer.

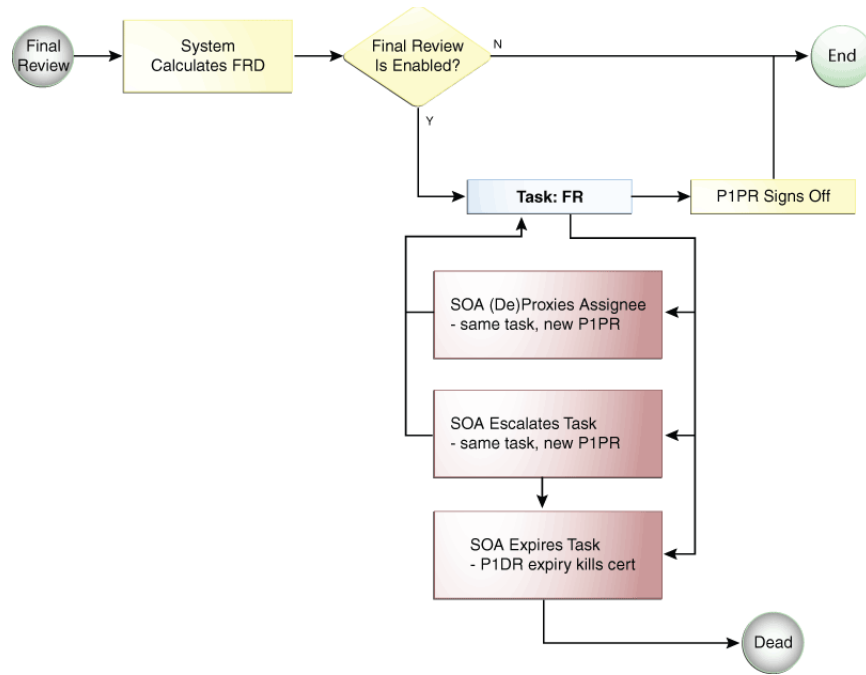
**Tie-breaker:** Because the Phase Two reviewers may have made different decisions than the Phase One reviewers, the Phase One primary reviewer can view and override the decisions made in the two earlier phases. Therefore, Final Review is a tie-breaker.

**Simplest phase:** There is only one Final Reviewer, who is the Phase One Primary Reviewer. The Final Reviewer cannot delegate and cannot reassign. The Final Reviewer can see the decisions made during Phase One, the decisions made during Phase Two, and can override the decisions.

Figure 13–5 depicts the optional Final Review phase of certification review with TPAD.



Figure 13–5 Final Review Phase



In Final Review, the following stages are different from other review phases:

- **System Calculates FRD:** Oracle Identity Manager calculates a Final Review Decision (FRD) in the following manner:
  - For any line-item detail that has a Phase Two decision other than Abstain, the Phase Two decision becomes the Final Review decision.
  - If a particular line-item detail lacks a Phase Two decision, or if the Phase Two decision is to abstain, then the Phase One decision becomes the Final Review decision.
- **Final Review is enabled:** This branch decides whether or not to generate a task for Final Review and assign it to the Phase One Primary Reviewer. If Phase Two is disabled in configuration, or if Phase Two is not used in this certification review, or if Final Review is disabled in configuration, then task for Final Review is not generated. If Phase Two decisions have been made and Final Review is enabled in configuration, then the task for Final Review is generated.
- **Task: FR:** The Final Reviewer opens the Final Review task, and can see the following:
  - The decision made during Phase One on each line-item detail.
  - The decision made during Phase Two on each line-item detail.
  - The Final Review Decision.

The Final Reviewer can override the FRD in the context of the Phase One and Phase Two decisions. The Final Reviewer cannot reassign and delegate, and therefore, cannot undelegate any line-item within the task. The Final Reviewer can sign off after validating each FRD. At that point, the Final Review task is complete and the overall certification process is complete with the exception of closed-loop remediation, which Oracle Identity Manager performs automatically following signoff. If the Final Reviewer does not sign off and allows the Final Review task to expire, then the certification process is dead.

You can use Final Review to compare the Phase One decision with the Phase Two decisions and make a final decision. If you prefer the Phase Two decision, then do not enable Final Review in configuration.

## 13.11 Understanding Certification Oversight

Certification *oversight* is the activity of reviewing, and possibly overriding, the decisions of the primary reviewer within the scope of a particular primary-review task.

A person who has the opportunity to override the certification decisions of a primary reviewer within the scope of a particular primary-review task is called an *overseer*. The overseer has the following characteristics:

- An overseer must be an Oracle Identity Manager user.
- Only one overseer at a time can oversee a primary-review task.
- An overseer has the right to view and override the decisions made by the primary reviewer or by any previous overseer.

As a part of the certification configuration, you can select a certification composite that defines the certification oversight workflow. A certification composite is a SOA workflow that the certification server launches for each primary reviewer, or delegated reviewer, during a phase of certification.

By default, the CertificationOverseerProcess composite defines the following behavior:

- A primary-review task is not completed until the primary reviewer and every overseer in the sequence has signed off.
- Decisions signed off by the final overseer in the sequence of overseers are final for that primary-review task.
- Closed-loop remediation begins after the overall certification is complete. No phase of certification is complete until every primary-review task is complete.
- For Phase Two and Final Review phase of certification:
  - Since Phase Two can have multiple primary reviewers, each primary-review task can have a separate sequence of overseers, one primary-review task per each primary reviewer. For detailed information about multi-phased reviews, see "[Understanding Multi-Phased Review in User Certification](#)" on page 13-33.
- For delegation, oversight takes place only for the verification task of a primary reviewer. If the primary reviewer delegates during the primary-review task, then the primary-review task does not have oversight. Instead, oversight takes place during the subsequent verification-task, which contains all the decisions for that phase.
- Reassignment of a line-item during Phase One of certification creates a new certification and creates a new primary-review task that is assigned to the re-assignee. Here, a new sequence of overseers are calculated for the new primary-review task.

You can extend the default oversight functionality to specify different levels of oversight or stop the oversight process when a certain stage is reached. To do so, you must create and deploy custom certification composites. For more information on creating and deploying custom certification composites, see "Customizing Certification Oversight" in *Developing and Customizing Applications for Oracle Identity Manager*.

## 13.12 Troubleshooting Identity Certification

Table 13–4 lists possible issues encountered while using identity certification and the steps to resolve the issues.

**Table 13–4 Troubleshooting Identity Certification Issues**

Problem	Solution
You create certification definition and run the Certification Creation Task scheduled job, but no certification tasks are generated.	Make sure that all the certification configuration steps, as described in "Configuring Certifications" on page 13-3, have been performed.

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**Note:** Ensure that all required SOA patches are applied. For a list of SOA patches, see *Oracle Fusion Middleware Installation Guide for Oracle Identity and Access Management*.

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## Managing Identity Audit

The Identity Audit feature detects Segregation of Duties (SoD) violations. SoD violation or identity audit policy violation is a violation whereby a user has been assigned privileges that should not be held individually or in combination.

Identity audit (IDA) enables the creation of rules and policies that detect potentially dangerous combinations of privileges held by users or roles that can lead to access violation, and determines policy violations and policy violation causes.

This feature can be enabled or disabled by setting the value of the `Identity Audit` system property to true or false respectively. See "System Properties" in *Administering Oracle Identity Manager* for information about this system property. Also, in an upgraded deployment of Oracle Identity Manager, you must manually set the value of the `Workflows policies enabled` system property in order to use the identity audit and role lifecycle management features.

This chapter describes the IDA feature in the following topics:

- [Identity Audit Concepts](#)
- [Enabling Identity Audit](#)
- [Configuring Identity Audit](#)
- [Managing IDA Rules](#)
- [Managing IDA Policies](#)
- [Managing Scan Definitions](#)
- [Managing Policy Violations](#)

### 14.1 Identity Audit Concepts

You can use Identity Audit to detect Segregation of Duties (SoD) violations. The detection mechanism of IDA monitors users' actual access to resources, and captures any violations on a continuous basis. This can be one of the following types:

- **Detective mode:** In a detective mode, the entire identity warehouse of users can be monitored for anomalies or toxic combinations of user access rights.
- **Preventive mode:** In preventative mode, any access that is requested via the access catalog in real-time can be automatically detected as an Identity Audit policy violation, and preventative action can be taken.

There may be multiple audit policies defined. A single audit policy detects a specific violation on users. An audit policy is composed of one or more audit rules, and each

rule detects a cause of the violation. User profiles as well as their associated roles, accounts, entitlements, and organizations are then scanned for identity audit policy violations. User accounts (including entitlements), user attributes, and roles/access policies that violate an identity audit policy are flagged and tracked until the violation is resolved. The solution also maintains a comprehensive history of audit scans.

The concepts related to Identity Audit are described in the following sections.

### 14.1.1 Identity Audit Rules

An identity audit rule consists of a rule condition. These rules can be simple or complex based on the entities and user access privileges. You can define complex rules with nested conditions on the basis of user information, catalog metadata associated to applications, entitlements, roles, and organization metadata.

An identity audit rule can be associated with multiple policies. When a rule condition is modified, all policies associated with this rule are impacted. If the modified rule is the cause of any existing open violations in the system, then the cause and the associated violation are impacted by the change in condition.

A rule can be specified by entering an IF condition, and then return values when the condition matches.

Rules are associated with policies. When entities associated with an impacted violation are scanned against the policies associated with the rule, Oracle Identity Manager takes the following actions on the violation:

- Oracle Identity Manager checks whether the modified condition still causes an exception.
- If the rule condition still results in an exception, then Oracle Identity Manager sets the violation cause status to Active. Otherwise, the violation cause status is set to Inactive.

Identity audit rules must be owned by a user. Any user can be a rule owner irrespective of the admin role privileges of the user.

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**Note:**

- See "[Managing Administration Roles](#)" on page 18-1 for information about admin roles and admin role capabilities.
- The following admin role capabilities related to identity audit policies cannot be used from Identity Self Service, but can be used through APIs:
  - Identity Audit Policy - Assign Rule
  - Identity Audit Policy - Unassign Rule
  - Identity Audit Policy - Disable
  - Identity Audit Policy - Enable
  - Identity Audit Policy - Assign Rule
  - Identity Audit Policy - Unassign Rule
  - Identity Audit Rule - Enable
  - Identity Audit Rule - Disable
  - Identity Audit Scan Run - Delete

For information about using APIs, see *Developing and Customizing Applications for Oracle Identity Manager* and *Java API Reference for Oracle Identity Manager*.

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You can add new rules to an existing policy. However, this change can impact some existing unresolved violations. The next time the modified policy is scanned, existing open violations that are impacted by this change are updated and new ones are created if the new rules have caused exceptions.

### 14.1.2 Rule Condition

A rule has a single condition. A rule's condition is the IF portion of the rule and is evaluated to be either true or false against the input values passed to the rule at policy evaluation time.

A condition is a set of one or more criteria, which can be logically conjugated together with AND or OR operators. The criteria can be grouped, and the groups can be logically conjugated together with AND or OR operators. This allows for complex nested Boolean expressions. A condition criterion consists of an attribute, operators, and value, as shown:

Condition criterion = *ATTRIBUTE OPERATOR VALUE*

### 14.1.3 Identity Audit Policies

An identity audit policy is a collection of audit rules that together enforce SoD business policies. Identity audit policies consist of metadata, such as the identity audit policy name, description, severity, creation date, and update data. Identity audit policies have designated policy owners and policy remediators.

An identity audit policy must be owned by any user. The policy owner can create, search, view, modify, or delete policies.

By default, policies will report a violation if any of its rules evaluate to true.

An identity audit policy owner is responsible for the definition of the policy. However, it is the remediator's responsibility to take action on an identity audit policy violation and fix the violation.

#### 14.1.4 Scan Definitions

An identity audit scan is the action of executing an identity audit policy along with its associated rules against a given population of entities (users).

A scan definition specifies a particular identity audit scanning "recipe" that can be used by a scheduled task to run and repeat the desired scan in the future. Scan definitions contain a base selection of users or organizations to scan, and a collection of one or more policies to evaluate when scanning. In addition, other configuration settings can also be specified in a scan definition.

Scan definitions act as templates that configure a scheduled task (scan job) with audit scan parameters. Scan definitions themselves contain no scheduling information.

IDA scan can be of the following types:

- **Detective scan:** A scheduled job that performs an IDA scan according to a specified IDA scan definition, and generates a persistent policy violation for each user SoD conflict that it detects. This type of scan is used to find latent problems in access privileges.

A detective scan is the process of applying a scan definition to a user population and generating IDA policy violations. A scan definition consists of policies and user-selection criteria. Each policy contains rules that define the combination of access privileges that will result in a violation being detected by the scan. Detective scans are run as Oracle Identity Manager scheduled jobs. Detected violations are persisted to the data store if they are new and updated if they already exist. You can also use the capability of running a detective scan on-demand for a single policy in a "preview" mode. In preview mode, the scan returns a collection of preview violations that it has detected, but these violations are not actionable and can only be saved temporarily.

- **Preventive scan:** A synchronous (not scheduled) IDA scan that reports a list of violations. This type of scan is used to detect hypothetical policy violations that might be introduced as a direct result of a particular access grant during the request process.

A preventive scan is a synchronous IDA scan that returns a list of potential violations against a specified set of IDA policies, initiated as part of access request processes. This type of scan is used to detect potential policy violations that would be introduced if a particular request is submitted by a requestor. The preventive scan violation results may be discarded, or the requestor can be stopped from submitting the request. OIG IDA provides APIs for invoking preventive scans and for managing their results. The IDA Policies included in a preventive scan are those policies marked with the Evaluate flag during access request.

#### 14.1.5 Scan Jobs

An identity audit scan can be effectively saved as a scheduled task (a scan job) in the Oracle Identity System Administration that performs an audit scan, using selection criteria from its scan definition with a preface of Identity Audit\_ScanDefinitionName, and can be scheduled by an administrator with a given date and time, or on a repeated basis.



Multiple scan jobs can exist, allowing individual scans to be performed on their own schedule. Multiple scan jobs can run concurrently.

## 14.1.6 Policy Violations

An identity audit policy violation occurs if one or more rules associated with an identity audit policy is broken by a user account (including entitlements within the account), a user attribute, or a user role. The goal here is for the solution to track the violation until it is resolved. The solution must display a unique violation per policy and the objects, such as users, roles, entitlements, and accounts, that have been violated within the policy. By default, a policy violation occurs when one or more rules associated with a policy is matched by a user account including entitlements within the account, a user attribute, or a user role.

## 14.1.7 Remediators

An identity audit policy must have one or more remediators. A mediator can be a role, a manager, or any user with or without any particular role associated. You cannot assign multiple users as mediator. Assigning multiple users as mediator can be achieved only by assigning any role as the mediator. A mediator is responsible for fixing an identity audit policy violation or for reassigning the violation to another eligible mediator.

IDA policies have designated remediators who are responsible for taking action when violations are discovered. Notification for policy violations are sent to the Inbox of the remediators. When a policy detects a violation during a scan, the violation is assigned to the mediator(s) designated by the policy. Remediators are notified when they have been assigned a new policy violation. The mediator role allows remediators to view and edit their assigned policy violations.

A mediator may reassign a policy violation to another eligible mediator, after which the original mediator is no longer responsible for the policy violation and can take no further action on it or reclaim it.

## 14.1.8 Policy Violation Remediation

An IDA scan creates a Policy Violation when the scan detects a target entity (for example, a User) matching one or more rules specified in the policy set referenced by the scan definition. The Policy Violation comprises a set of attributes including the violation target, the policy violated, a violation count, along with a collection of (Policy Rule) Violation Causes. Violation Causes are included to give remediators specific information about the rule conditions that produced the Segregation of Duties conflict. A remediation task is created and assigned to the mediator(s) designated by the policy to initiate the remediation workflow.

### 14.1.8.1 Violation Causes

Each violation cause includes the rule, condition, and attributes resulting in the violation.

**14.1.8.1.1 Violation Cause Actions** The mediator can take one of the following actions:

- **Request for Remediation (remediate):** This action is available for causes that involve catalog items, such as user role, account, and entitlements, within the account. The mediator requests revocation of the catalog item mentioned as a cause of the violation.

- **Close As Fixed:** The remediator has taken an action independent of the provisioning system to fix the violation cause.
- **Close As Risk Accepted:** This action indicates that the violation cause condition should be ignored in subsequent policy re-evaluations for a limited time.

**14.1.8.1.2 Violation Cause States** An IDA policy violation transitions through a sequence of states during the remediation process. The possible states of an IDA policy violation are:

- **Active:** The initial state of a violation cause. This state indicates that the rule condition still matches.
- **Risk Accepted:** The state after the remediator temporarily disables a rule condition by selecting the Risk Accepted action. This state expires when the specified time limit is reached, and the rule condition is evaluated at the subsequent scan.
- **Manually Fixed:** The state after the remediator takes the Close as Fixed action.
- **Remediation Requested:** The state after the remediator takes the Request Remediation action.
- **Resolved:** This state is set by system when a scan detects that a violation cause condition no longer matches the target entity. Typically, resolved state is reached when a remediator's action has been applied and an identity audit scan confirms it. However, an external change to the remediation can also resolve a violation cause.

Remediators take action on violation causes to resolve the identity audit policy violation so that it no longer matches any rule of the violated policy. Subsequent scans re-evaluate the policy (re-apply the rules to the target entity) and confirms if the violation cause has been resolved and update the violation cause statuses accordingly. The remediator can also indicate that a violation cause can be accepted (ignored) for a limited time.

#### **14.1.8.2 Policy Violation States**

An IDA policy violation transitions through a sequence of states during the remediation process. The possible states of an IDA policy violation are:

- **Open:** The initial state of Policy Violation, before it is assigned to the remediator(s) designated by the policy.
- **Assigned:** The state after an IDA Policy Violation has been assigned to a remediator.
- **Remediation In Progress:** The state after the first remediator action and until the remediator completes the remediation.
- **Remediation Under Review:** Policy Violation state is moved to this state if the remediation has overseers. The Policy Violation remains in this state until the last reviewer action.
- **Remediation Completed:** The state after the remediation (and review, if required). From this state, an IDA Scan either closes or re-opens the Policy Violation.
- **Closed:** The state after an IDA Policy Violation is evaluated and no outstanding violations are detected. An administrator can also force the Policy Violation into this state by invoking the Close action.

## 14.1.9 Policy Violation Reports

Oracle Business Intelligence Publisher is used for IDA Policy Violation Reports. Reports are available in BI Publisher RTF template format. BI Publisher uses the appropriate SQL queries (defined in the data model) to query Oracle Identity Manager database (specifically IDA tables) for the violation data.

IDA Policy Violation Reports are available for download from Reports link in the **Compliance** tab of Oracle Identity Self Service. An IDA Policy Violation report can be generated for a Policy, Scan Stop Date, Manager, Remediator or selected users.

For information about generating identity audit policy violation reports, see "[Generating Identity Audit Policy Violation Reports](#)" on page 14-26.

For information about each type of identity audit policy violation report, see "Identity Audit Reports" in *Administering Oracle Identity Manager*.

## 14.2 Enabling Identity Audit

By default, the Identity Audit feature is disabled in a Oracle Identity Manager deployment. As a result, the Compliance tab of the Identity Self Service is not available. To enable IDA:

1. Login to Oracle Identity System Administration.
2. On the left navigation pane, under System Management, click **System Configuration**.
3. Search for the Identity Auditor Feature Set Availability system property. This property has the `OIG.IsIdentityAuditorEnabled` keyword.
4. Change the value of this system property to TRUE. By default, the value is FALSE. Changing this value to TRUE enables the IDA feature.
5. Save the change.
6. Restart Oracle Identity Manager server.

Identity audit is enabled and the Compliance tab in Identity Self Service is available.

## 14.3 Configuring Identity Audit

This section describes how to configure Identity Audit after it is enabled. It contains the following topics:

- [Setting Identity Audit Options](#)
- [Configuring Reminders, Notifications, Escalations, and Expiry for Identity Audit \(Optional\)](#)

### 14.3.1 Setting Identity Audit Options

After IDA is enabled, you can configure the way IDA will work by using the Identity Self Service. To configure IDA:

1. Login to Oracle Identity Self Service.
2. Click the **Compliance** tab.
3. Click the **Identity Audit** box, and select **Configuration**. The Configuration page is displayed.

- Under General Settings, specify values for the fields described in [Table 14–1](#).

**Table 14–1 IDA Configuration Settings**

Field	Description
Prevent self remediation	Selecting this option prevents the assigned remediator from remediating a policy violation when the remediator's attribute-values are among the causes of the violation. When this option is selected, the administrator must ensure that the scan definition specifies an alternate remediator. Any policy violation that involves the primary remediator will be assigned to the alternate remediator.
Scan Run Details Retention Period	This field specifies the number of days for the retention period. Scan details older than the specified days will be purged.
User Batch Size	This field specifies the number of users to be processed during a scan.
Threads per scan	This field specifies the number of threads to be used while running a scan.
Composite Name	This property specifies the SOA composite to be used to generate policy violation tasks.  The default value is the default/IdentityAuditRemediation composite. If you want to use a custom composite to generate policy violation tasks, then click the search icon adjacent to this field, search and select the composite from the Select a Composite dialog box, and click <b>Select</b> .  <b>Note:</b> See "Customizing the Identity Audit Composite" in <i>Developing and Customizing Applications for Oracle Identity Manager</i> for information about customizing and deploying the identity audit composite to use a custom identity audit flow.
Maximum Risk Acceptance period for Policy Violation Causes	This field specifies the maximum number of days for which risk is accepted for policy violation causes.

- Click **Save**.

You can click **Reset** to reset the values in the fields to default.

### 14.3.2 Configuring Reminders, Notifications, Escalations, and Expiry for Identity Audit (Optional)

If email notifications is configured in SOA, as described in "Configuring SOA Email Notification" in *Administering Oracle Identity Manager*, then email notifications are sent by default in the following scenarios:

- when a policy violation is assigned to a user
- when a policy violation is completed

By default, two reminders are sent one day after and two days after the policy violation task has been created. There is no escalation or expiry set for the policy violations by default.

To change the default configuration for identity audit:

- Login to Oracle SOA Composer with Admin credentials, such as weblogic, by navigating to the following URL:

`http://HOST_NAME:PORT_NUMBER/soa/composer`

2. Click **Open**, and select **Open Tasks**. The Select a Task to open dialog box is displayed.
3. Select `IdentityAuditRemediationTask`, and click **Open**. The Event Driven Configuration page is displayed.
4. In the Notification Settings section, perform the following:
  - a. The assignees of the task are selected as recipients of the notification for Assign and Complete tasks. To change the default setting, you can select the task status in the Task Status column, and select the notification recipient in the Recipient column. You can click the pencil icon for each task to edit the default notification message, and click **OK**.
  - b. In the drop-down below, change the default setting for reminders.
5. In the Expiry and Escalation Policy section, you can change the default value for escalation and expiry.
6. Click **OK**.
7. Click **Save**, and then click **Commit**.

## 14.4 Managing IDA Rules

This section describes how to create and manage IDA rules. It contains the following sections:

- [Searching Rules](#)
- [Creating Rules](#)
- [Understanding Rule Expressions](#)
- [Modifying Rules](#)
- [Duplicating Rules](#)
- [Deleting Rules](#)

### 14.4.1 Searching Rules

This section describes how to perform basic search and advanced search for rules:

- [Performing Basic Search for Rules](#)
- [Performing Advanced Search for Rules](#)

#### 14.4.1.1 Performing Basic Search for Rules

To perform a basic search for IDA rules:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Rules**. The Rules page is displayed.
3. If fields for advanced search is displayed, then click **Basic**. Otherwise, ignore this step and continue with step 4.
4. From the Search list, select an attribute based on which you can search the rules. The attributes are Rule Name, Description, Created Date, and Owner Login.
5. In the Search box, enter a value of the selected attribute as the search criterion.
6. Click the Search icon. The search result is displayed in a tabular format.

### 14.4.1.2 Performing Advanced Search for Rules

To perform an advanced search for rules:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Rules**. The Rules page is displayed.
3. Click **Advanced**. The fields for advanced search are displayed.
4. Select any one of the following:
  - **All:** To specify that the search result must match all the specified search criteria.
  - **Any:** To specify that the search result must match any one of the specified search criteria.
5. Specify values for one or more of the Rule Name, Description, Created Date, and Owner Login attributes. The search result will be displayed based on the values that you specify for these attributes.

For each attribute, select a search operator from the lists, such as Starts With, Ends With, Equals, Does Not Equal, Contains, and Does Not Contain. For any date field, the search operators are Equals, Before, After, On or before, On or after, Between.
6. Optionally, you can add fields to your search criteria by clicking **Add Fields** and selecting fields from the list. A cross icon is displayed with the added fields. You can click the cross icon to remove the added field.
7. Click **Search**. The search result is displayed in a tabular format.

### 14.4.2 Creating Rules

To create IDA rules:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Rules**. The Rules page is displayed.
3. From the Actions menu, select **Create**. Alternatively, click **Create** on the toolbar. The Create Rule page is displayed.
4. In the Name box, enter a name of the rule. This is a mandatory field.
5. In the Description box, enter a description for the rule.
6. Click the search icon adjacent to the Owner box, and search and select a user.
7. Verify that **Enabled** is selected in the Status list so that the rule you create is in enabled state. By default, rules are in enabled state. To disable the rule, you can select **Disabled** from the Status list.
8. In the Condition Builder section, click the icon to the right of the Condition field to open the Condition Builder dialog box to start building your condition. The Condition Builder dialog box enables you to search and navigate through all the attributes so that you can select them to include in your rule condition.
9. Search for an entity type based on which you want to specify the condition, for example User.
10. Click **User**. The user attributes are displayed.
11. Search for the user attribute that you want to include in the rule condition, for example, Manager Display Name. Alternatively, you can navigate through the user attributes by clicking the page number icons, and then select the attribute.

Click **OK**. The following expression is added in the Condition field:

```
user.Manager Display Name
```

12. From the list of operators, select an operator, such as EQUAL.
13. In the right hand side field, enter the Manager Display Name, for example, Sony Palmentieri. Alternatively, you can click the icon adjacent to the field to open the Condition Builder dialog box. To specify the Manager Display Name, select any one of the following:
  - **Value:** Selecting this option enables you to select a specific value for the attribute.

---

**Note:** If you select value, based on the left hand side, only the values for that field are displayed. However, the values are not displayed for all attributes. For some attributes, the value must be entered.

---

- **Expression:** Selecting this option enables you to specify an expression based on the selected attribute, for example \$(user.Country).

Search and select the desired value, and click **OK**. The value is added to the right hand side field, and adding the first line of the rule condition is complete.

---

**Tip:** You can enter an expression in the rule condition fields instead of searching and selecting the values.

---

14. To add another line to the rule condition, click **Add Condition**.

To remove a line from the rule condition, you can select the checkbox to the left of the line, and then click **Remove**. You can select multiple checkboxes to remove those lines at a time.

15. From the operators list to the right of the first line, select **AND**. This is to specify that both the first and second lines must be true.
16. In the left hand side field, enter the expression or search and select the attribute. For the purpose of this example, specify user.Job Title. Select the EQUAL operator, and specify a value for the Job Title attribute in the right hand side field, for example, Administrator.

17. Add another line and specify the following:

```
user.Organization Name EQUAL Avitek
```

18. To group the first two lines together, select the checkboxes adjacent to the first two lines, and click **Group**.

You can ungroup the lines by selecting the checkboxes adjacent to the lines and clicking **Ungroup**.

---

**Note:** You can group only two conditions at a time. If you select more than two conditions, then the **Group** button is disabled. Alternatively, the **Ungroup** button is enabled only when you select one of the conditions that is grouped, but it is disabled when you select more than one group.

---

19. Add the fourth line, and click the icon to the right of the condition field to open the Condition Builder dialog box.
20. To add an entitlement, make the following selections:
  - a. Select **Application**. The application types are displayed.
  - b. Then select the resource, for example eBusiness Suite User. click **appinstance**.
  - c. Select **Vision Purchasing** as the application instance.
  - d. Select **account** as you are selecting an entitlement, and select wildcard character \* to specify all accounts.

Click the arrow in the first row to go back, and then select **UD\_EBS\_RESP** as the entitlement, and select wildcard character \* to specify all responsibilities.

---

**Note:** For application instances, there is no mechanism to filter out the attributes. All the attributes for application instances are displayed in the Condition Builder with which a rule can be written.

For roles, select the role name to display the list of attributes for the role entities. You can select the asterisk (\*) wildcard character to display the list of attributes.

---

- e. Select **Responsibility Name**.

Note that the selection is displayed at the top of the dialog box, as follows:

```
Home > appType[eBusiness Suite User].appinstance[Vision
Purchasing].account[*].UD_EBS_RESP[*].Responsibility Name
```

- f. Click **OK**. The expression is added in the condition field.
  - g. Select **EQUAL** and specify a value for the Responsibility Name, such as 9~170~52448.
21. Add another line, and add an expression for the entitlement of the AD User resource in the condition field. The expression can look similar to the following:

```
appType[AD
User].appinstance[VisionEmployeesDomain].account[*].UD_ADUSRC[*].catalog.Display
Name
```

22. Select **EQUAL** and specify a value for the Display Name, such as CN=Account Operators,CN=Builtin,DC=adlrg,DC=us,DC=mydomain,DC=com.
23. Group the fourth and fifth lines and specify **OR** operator between them. If you do not specify an operator, then it is taken to be **AND** by default.
24. Join the first and second groups with an **AND** operator.

---

**Note:** A maximum of two conditions can be grouped together. Therefore, if you create a rule with four conditions that are grouped together with the **AND** operator, then the conditions are grouped into two sets. But if one of the conditions are grouped with the **OR** operator, then rule is updated correctly.

---

25. Click **Create**. The rule is created and the Rules page is displayed. To display the rule you created in the search result of the Rules page, you can click **Refresh**.



---



---

**Note:** When Risk attributes are used to define the conditions in a rule, for the rule to be evaluated correctly, the Risk Aggregation Job scheduled job must be run before the request is made.

---



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### 14.4.3 Understanding Rule Expressions

This section describes the following sample Identity Audit rules:

- There are restrictions on how rules can be written when their conditions involve account entitlements. Identity Audit rules that use catalog-based conditions do not produce matches if the entitlements are being requested as child form data in a new /modify account request. For example, if a user requests an ActiveDirectory group entitlement as part of an account request in the AD Group form, then the following rule operand does not match the name of the AD group:

```
appType[AD
User].appInstance[VisionADAppInst].account[*].UD_ADUSRC[*].catalog.Display Name
```

To work around this restriction, the operand must be testing for the group name attribute (Group Name) directly, as shown:

```
appType[AD User].appInstance[VisionADAppInst].account[*].UD_ADUSRC[*].Group
Name
```

- The following rule shows how to find conflicting attribute values within a single entitlement in a single account by using the discriminator character #:

```
appType[*].appInstance[*].account [#x].UD_VISDUMC [#x].VISDUM lookup ==
8~CN=VISDUM1,DC=abc,DC=com
AND
appType[*].appInstance[*].account [#x].UD_VISDUMC [#x].ss == admin
```

In this example, both the rule conditions reference the same entitlement (in bold).

- The following rule shows how to find conflicting attribute values within the same account by using the discriminator to pin the account instance:

```
appType[AD User].appInstance[VisionADAppInst].account [#x].Organization Name ==
6~OU=Vision,DC=oia,DC=oracle,DC=us,DC=com
AND
appType[AD User].appInstance[VisionADAppInst].account [#x].Department == avitek
```

### 14.4.4 Modifying Rules

To modify a rule:

- In Identity Self Service, click the **Compliance** tab.
- Click the **Identity Audit** box, and select **Rules**. The Rules page is displayed.
- Search for the rule that you want to modify. See "[Searching Rules](#)" on page 14-9 for information about searching rules.
- Open the rule that you want to modify in one of the following ways:
  - Click the rule name.
  - Select the rule by clicking to the left of the row. From the Actions menu, select **Open**. Alternatively, click **Open** on the toolbar.

The Edit Rule page is displayed. You can modify any attributes in this page, add/modify/delete the rule conditions, or group/ungroup the rule conditions.

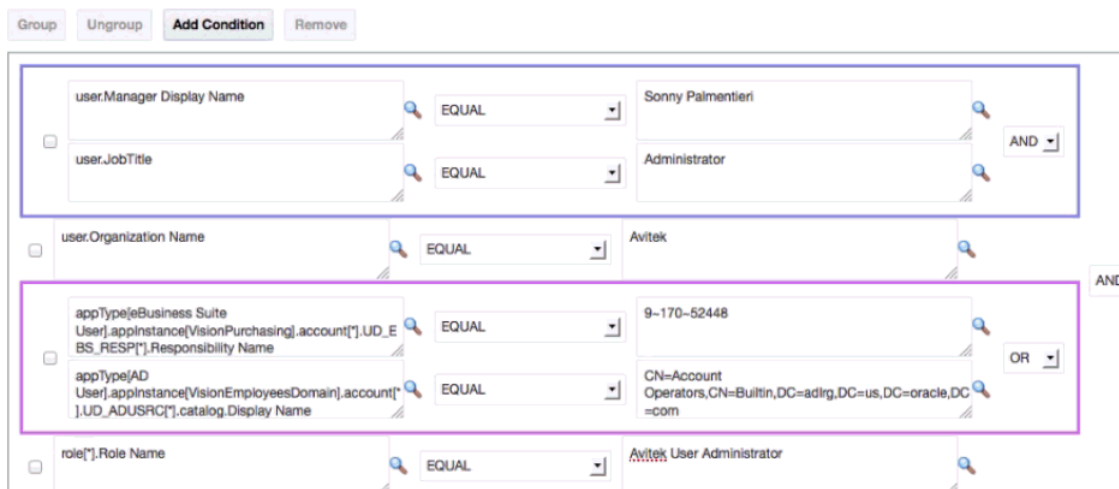
- (Optional) For the purpose of the example used in "Creating Rules" on page 14-10, add a line with a rule condition for roles. Specify the rule condition as:

```
role[*].Role Name EQUAL Avitek User Administrator
```

See "Creating Rules" on page 14-10 for information about adding rule conditions and grouping them.

- Specify the AND operator between the second group and the last line. If you do not specify an operator, then it is taken to be AND by default. The rule conditions will look similar to Figure 14–1.

**Figure 14–1 Rule Conditions**



- Click **Update**.

### 14.4.5 Duplicating Rules

You can use the rule conditions specified for a rule in another rule by duplicating the rule. To duplicate a rule:

- In Identity Self Service, click the **Compliance** tab.
- Click the **Identity Audit** box, and select **Rules**. The Rules page is displayed.
- Search for the rule that you want to duplicate. See "Searching Rules" on page 14-9 for information about searching rules.
- Select the rule by clicking to the left of the row.
- From the Actions menu, select **Duplicate**. Alternatively, click **Duplicate** on the toolbar. A duplicate of the selected rule is created with a number appended to the rule name.

You can modify the duplicated rule to create a new rule.

### 14.4.6 Deleting Rules

You can delete a rule if no policies or policy violations are associated with the rule.

To delete a rule:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Rules**. The Rules page is displayed.
3. Search for the rule that you want to delete. See "[Searching Rules](#)" on page 14-9 for information about searching rules.
4. Select the rule that you want to delete by clicking to the left of the row.
5. From the Actions menu, select Delete. Alternatively, click Delete on the toolbar.  
A message box is displayed asking for confirmation.
6. Click **Yes** to confirm.

## 14.5 Managing IDA Policies

This section describes how to create and manage IDA policies. It contains the following sections:

- [Searching Policies](#)
- [Creating IDA Policies](#)
- [Modifying IDA Policies](#)
- [Duplicating IDA Policies](#)
- [Deleting IDA Policies](#)
- [Previewing the Results of IDA Policies](#)

### 14.5.1 Searching Policies

This section describes how to perform basic search and advanced search for IDA policies:

- [Performing Basic Search for Policies](#)
- [Performing Advanced Search for Policies](#)

#### 14.5.1.1 Performing Basic Search for Policies

To perform a basic search for IDA policies:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Policies**. The Policies page is displayed.
3. If fields for advanced search is displayed, then click **Basic**. Otherwise, ignore this step and continue with step 4.
4. From the Search list, select an attribute based on which you can search the policies.
5. In the Search box, enter a value of the selected attribute as the search criterion.
6. Click the Search icon. The search result is displayed in a tabular format.

#### 14.5.1.2 Performing Advanced Search for Policies

To perform an advanced search for policies:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Policies**. The Policies page is displayed.
3. Click **Advanced**. The fields for advanced search are displayed.

4. Select any one of the following:
  - **All:** To specify that the search result must match all the specified search criteria.
  - **Any:** To specify that the search result must match any one of the specified search criteria.
5. Specify values for one or more of the policy attributes. The search result will be displayed based on the values that you specify for these attributes.  
 For each attribute, select a search operator from the lists, such as Starts With, Ends With, Equals, Does Not Equal, Contains, and Does Not Contain. For any date field, the search operators are Equals, Before, After, On or before, On or after, Between.
6. Optionally, you can add fields to your search criteria by clicking **Add Fields** and selecting fields from the list. A cross icon is displayed with the added fields. You can click the cross icon to remove the added field.
7. Click **Search**. The search result is displayed in a tabular format.

## 14.5.2 Creating IDA Policies

To create IDA policies:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Policies**. The Policies page is displayed.
3. From the Actions menu, select **Create**. Alternatively, click **Create** on the toolbar. The Create Policy page is displayed.
4. Enter values in the fields of the Create Policy page, as described in [Table 14–2](#).

**Table 14–2 Fields in the Create Policy Page**

Field	Description
Name	The IDA policy name.
Description	The description for the IDA policy.
Status	The status of the IDA policy, which is Enabled by default.
Owner	The display name of the policy owner. Click the search icon adjacent to this field to search and select a policy owner.
Type	The policy type is Identity Audit by default. This value cannot be modified because only policies of type Identity Audit can be created from the Create Policies page.
Severity	Select a severity level, such as High, Medium, or Low, which will be associated with the policy violations generated by this policy.
Evaluate during Requests	Select this option to display the policy violation during user's access request. User can either cancel the request or submit the request with violation.
Workflow Name	The workflow name that will be invoked during a user's access, if you select the <b>Evaluate during Requests</b> option. By default, the default/Identity/AuditRemediation workflow is selected.

**Table 14–2 (Cont.) Fields in the Create Policy Page**

Field	Description
Remediator	<p>Specify a remediator for violations generated by the policy. To do so, select any one of the following:</p> <ul style="list-style-type: none"> <li>■ <b>User:</b> Select this option to specify a user as the remediator. Search and select the user by clicking the Search icon.</li> <li>■ <b>Manager:</b> Select this option if you want the manager of the user for whom the violation is generated to be the remediator.</li> <li>■ <b>Role:</b> Select this option if you want to specify the members of a certain role to be the remediator. Search and select the role by clicking the Search icon.</li> </ul>

5. To add one or more rules to the policy:
  - a. Click **Add**. The Add Rule dialog box is displayed.
  - b. Search for the rule or rules that you want to add to the policy. To do so, select a rule attribute name from the search list, enter a search criterion on the search field, and click the Search icon. The rules that match the search criterion are listed in the Results table.
  - c. Select one or more rules that you want to add to the policy, and click Add Selected. To select all rules, you can click **Add All**. The selected rules are added in the Selected Rules table.
  - d. Click **Select**. The selected rules are added to the table in the Create Policy page.
  - e. (Optional) To remove any rule from the table in the Create Policy page, select the rule, and click **Remove**.
6. Click **Create**. The policy is created. The policy is listed in the Policies page. You can now run a preview of the policy.

### 14.5.3 Modifying IDA Policies

To modify IDA policies:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Policies**. The Policies page is displayed.
3. Search for the policy that you want to modify. See "[Searching Policies](#)" on page 14-15 for information about searching policies.
4. Open the policy that you want to modify in one of the following ways:
  - Click the policy name.
  - Select the policy by clicking to the left of the row. From the Actions menu, select **Open**. Alternatively, click **Open** on the toolbar.

The Edit Policy page is displayed. You can modify any attributes in this page and add/remove the rules. See "[Creating IDA Policies](#)" on page 14-16 for information about adding/removing rules associated with policies.

5. Click **Update**. The policy is modified with the changes.

## 14.5.4 Duplicating IDA Policies

You can use the rule conditions specified for a rule in another rule by duplicating the rule. To duplicate a rule:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Policies**. The Policies page is displayed.
3. Search for the rule that you want to duplicate. See "[Searching Rules](#)" on page 14-9 for information about searching rules.
4. Select the rule by clicking to the left of the row.
5. From the Actions menu, select **Duplicate**. Alternatively, click **Duplicate** on the toolbar. A duplicate of the selected rule is created with a number appended to the rule name.

You can modify the duplicated rule to create a new rule.

## 14.5.5 Deleting IDA Policies

You can delete a rule if no policies or policy violations are associated with the rule.

To delete a rule:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Policies**. The Policies page is displayed.
3. Search for the rule that you want to delete. See "[Searching Rules](#)" on page 14-9 for information about searching rules.
4. Select the rule that you want to delete by clicking to the left of the row.
5. From the Actions menu, select **Delete**. Alternatively, click **Delete** on the toolbar. A message box is displayed asking for confirmation.
6. Click **Yes** to confirm.

## 14.5.6 Previewing the Results of IDA Policies

You can preview results of the IDA policies to understand the policy violations that will be generated as a result of a scan. When you preview a policy, the policy violations are displayed, but the violations are not assigned to the remediators.

To preview the results of an IDA policy:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Policies**. The Policies page is displayed.
3. Search for the policy that you want to modify. See "[Searching Policies](#)" on page 14-15 for information about searching policies.
4. Select the policy that you want to preview.
5. From the Actions menu, select **Preview**. Alternatively, click **Preview** on the toolbar. The Base Selection page is displayed.
6. Select a set of users that you want to scan by selecting any of the following options:
  - **All Organizations:** To specify that all organizations will be scanned.

- **Selected Organizations:** To specify one or more organizations that will be scanned. After selecting this option, click **Add Organizations**, search and select one or more organizations, and then click **Select**.
  - **All Users:** To specify that all users will be scanned.
  - **User Criteria:** To specify criteria parameters so that users that match the criteria will be scanned. To specify the user criteria:
    - a. Under the Criteria Parameters section, select any one of the following:
      - All:** To specify that all the parameters must match.
      - Any:** To specify that any one parameter must match.
    - b. Enter values in the Manager and Organizations fields.
    - c. Optionally, you can click **Advanced** to include more attributes in the criteria.
    - d. Click **Update and Preview Results**. The selected criteria is added to the Criteria String section.
  - **Selected Users:** To specify one or more users that will be scanned. After selecting this option, click **Add Users**, search and select one or more users, and then click **Select**.
7. Click **Submit**. The scan is submitted.
  8. To view the policy violations detected by the scan, select the policy in the Policies page, and click **View Scans**. Alternatively, from the Actions menu, select **View Scans**.  
  
The Scans page is displayed with the results of the scan. The scan name, status of the scan, start time, end time, the number of users scanned, and number of violations are displayed in a table.
  9. Click the scan name. Alternatively, click **Open**. The Policy Violations page is displayed with a list of all the policy violations.  
  
The remediator will get the policy violations in the Policy Violations of the Self Service after the scan is run.
  10. You can click each policy name to view the policy violation details in the Violation details page. This page has the following sections:
    - **Violation Details:** Displays the details of the policy violation, such as the policy attributes, status, detection count, and the user name for which the violation is generated.
    - **Access Details:** Displays the cause of the violation, the rules that have been violated, the status and attributes of the violation, and comments, if any.

## 14.6 Managing Scan Definitions

This section describes how to create and manage scan definitions. It contains the following sections:

- [Searching Scan Definitions](#)
- [Creating Scan Definitions](#)
- [Modifying Scan Definitions](#)
- [Running and Viewing Scans](#)

## 14.6.1 Searching Scan Definitions

This section describes how to perform basic search and advanced search for scan definitions:

- [Performing Basic Search for Scan Definitions](#)
- [Performing Advanced Search for Scan Definitions](#)

### 14.6.1.1 Performing Basic Search for Scan Definitions

To perform a basic search for scan definitions:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Scan Definitions**. The Scan Definitions page is displayed.
3. If fields for advanced search is displayed, then click **Basic**. Otherwise, ignore this step and continue with step 4.
4. From the Search list, select an attribute based on which you can search the scan definitions.
5. In the Search box, enter a value of the selected attribute as the search criterion.
6. Click the Search icon. The search result is displayed in a tabular format.

### 14.6.1.2 Performing Advanced Search for Scan Definitions

To perform an advanced search for scan definitions:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Scan Definitions**. The Scan Definitions page is displayed.
3. Click **Advanced**. The fields for advanced search are displayed.
4. Select any one of the following:
  - **All:** To specify that the search result must match all the specified search criteria.
  - **Any:** To specify that the search result must match any one of the specified search criteria.
5. Specify values for one or more of the attributes. The search result will be displayed based on the values that you specify for these attributes.

For each attribute, select a search operator from the lists, such as Starts With, Ends With, Equals, Does Not Equal, Contains, and Does Not Contain. For any date field, the search operators are Equals, Before, After, On or before, On or after, Between.
6. Optionally, you can add fields to your search criteria by clicking **Add Fields** and selecting fields from the list. A cross icon is displayed with the added fields. You can click the cross icon to remove the added field.
7. Click **Search**. The search result is displayed in a tabular format.

## 14.6.2 Creating Scan Definitions

To create scan definitions:

1. In Identity Self Service, click the **Compliance** tab.



2. Click the **Identity Audit** box, and select **Scan Definitions**. The Scan Definitions page is displayed.
3. From the Actions menu, select **Create**. Alternatively, click **Create** on the toolbar. The Attributes page of the Create Scan Definitions wizard is displayed.
4. In the General Policy Information section, enter the scan definition name in the Name box. This is a mandatory field.
5. In the Description box, enter a description for the scan definition.
6. In the Owner box, specify the user name of the owner of the scan definition. You can click the Search icon, and search and select a user as the owner. This is a mandatory field.
7. Click **Next**. The Select Policy page of the Create Scan Definitions wizard is displayed.
8. From the Policy Selection Strategy list, select any one of the following options:
  - **All Policies:** Select this option to associate all the IDA policies with the scan definition.
  - **Selected Policies:** Select this option to associate the policies you select to associate them with the scan definition. To do so, click **Add Policies**, and search and select a policy.
  - **Policy Criteria:** Select this option to specify criteria parameters based on which the policies will be dynamically associated with the scan definition. To do so:
    - a. Select any one of the following options:
      - All:** To specify that all parameters must match.
      - Any:** To specify that any one parameter must match.
    - b. Enter values in the Policy Name and Description fields.
    - c. Optionally, you can click **Advanced** to include more attributes in the criteria.
    - d. Click **Update and Preview Results**. The selected criteria is added to the Criteria String section.
9. Click **Next**. The Base Selection page of the Create Scan Definitions wizard is displayed.
10. In the Base Selection section, specify the users that you want to scan by using this scan definition. Select a set of users that you want to scan by selecting any of the following options:
  - **All Organizations:** To specify that all organizations will be scanned.
  - **Selected Organizations:** To specify one or more organizations that will be scanned. After selecting this option, click **Add Organizations**, search and select one or more organizations, and then click **Select**.
  - **All Users:** To specify that all users will be scanned.
  - **User Criteria:** To specify criteria parameters so that users that match the criteria will be scanned. To specify the user criteria:
    - a. Under the Criteria Parameters section, select any one of the following:
      - All:** To specify that all the parameters must match.

- Any:** To specify that any one parameter must match.
  - b.** Enter values in the Manager and Organizations fields.
  - c.** Optionally, you can click **Advanced** to include more attributes in the criteria.
  - d.** Click **Update and Preview Results**. The selected criteria is added to the Criteria String section.
    - **Selected Users:** To specify one or more users that will be scanned. After selecting this option, click **Add Users**, search and select one or more users, and then click **Select**.
- 11.** Click **Next**. The Configuration page of the Create Scan Definitions wizard is displayed.
  - 12.** (Optional) Select the Prevent Self Remediation option if you want to prevent the owner of the scan definition to take remediation action. Then you must specify a different user as the remediator by selecting any one of the following options from the Alternate remediator ID list:
    - **User Manager:** To specify the manager of the user for whom the policy violation has been detected as the remediator.
    - **Selected User:** To specify a user that you select as the remediator. To do so, click the Search icon, and search and select a user.
  - 13.** If you do not want to prevent self remediation, then accept the default settings, and click **Next**. The Summary page of the Create Scan Definitions wizard is displayed.
  - 14.** Review the attributes, policies, base selection, and configuration that you specified, and then click **Finish**. The scan definition is created.

After a scan definition is created, when it is run for the first time, a scheduled job is created that can be configured to run periodically.

### 14.6.3 Modifying Scan Definitions

To modify scan definitions:

- 1.** In Identity Self Service, click the **Compliance** tab.
- 2.** Click the **Identity Audit** box, and select **Scan Definitions**. The Scan Definitions page is displayed.
- 3.** Open the scan definition that you want to modify in one of the following ways:
  - Click the scan definition name.
  - Select the scan definition, and click **Open**. Alternatively, from the Actions menu, select **Open**.

The scan definition details page is displayed.

- 4.** From the Actions menu, select **Create**. Alternatively, click **Create** on the toolbar. The Attributes page of the Create Scan Definitions wizard is displayed.
- 5.** You can modify the attributes and selections in the Attributes, Policies, Base Selection, and Configuration tabs. See "[Creating Scan Definitions](#)" on page 14-20 for information about the options available in these tabs.
- 6.** Click **Apply**. The scan definition is successfully modified.

## 14.6.4 Running and Viewing Scans

Running a scan can be performed in any one of the following ways:

- From the Scheduler section of Identity System Administration, run the scheduled job that is generated when the scan definition is created. See "Managing the Scheduler" in *Administering Oracle Identity Manager* for information about scheduled jobs.
- From the Scan Definitions page of the Identity Self Service, as described in this section.

To run a scan based on a scan definition and view the scan:

1. In the Scan Definitions page, select the scan definition that you want to run.
2. Click **Run Now** on the toolbar. When you click this button, the corresponding scan jobs for the selected scan definition run and policy violations are detected. In addition, the policy violations are assigned to the respective remediators.
3. To view the results of the scan job run, select the scan definition, and click **View Scan** on the toolbar. Alternatively, from the Actions menu, select **View Scan**.

The Scans page is displayed with the results of the scan. The scan name, status of the scan, start time, end time, the number of users scanned, and number of violations are displayed in a table.

4. Click the scan name. The Policy Violations page is displayed with a list of all the policy violations.
5. You can click each policy name to view the policy violation details in the Violation details page. This page has the following sections:
  - **Violation Details:** Displays the details of the policy violation, such as the policy attributes, status, detection count, and the user name for which the violation is generated.
  - **Access Details:** Displays the cause of the violation, the rules that have been violated, the status and attributes of the violation, and comments, if any. This section allows you to either close the violation or request of remediation.
6. Close the Violation Details page.

## 14.7 Managing Policy Violations

Identity audit policy violations can be managed from the following sections of Identity Self Service:

**Pending Violations page:** As a remediator of identity audit policy violations that are assigned to you, you can access the pending violations and take action on them by using the Pending Violations page. See "[Managing Pending Violations](#)" on page 11-1 for details.

**Policy Violations page:** You can view and take actions on the identity audit policy violations for administrative purpose by using the Policy Violations page, which you can open from the Compliance tab of the Identity Self Service.

This section describes how to manage identity audit policy violations from the Policy Violations page. It contains the following sections:

- [Searching Policy Violations](#)
- [Opening Policy Violation Details](#)

- [Completing Policy Violations](#)
- [Closing Policy Violations](#)
- [Remediating or Closing Policy Violations Causes](#)
- [Generating Identity Audit Policy Violation Reports](#)

## 14.7.1 Searching Policy Violations

This section describes how to perform basic search and advanced search for policy violations:

- [Performing Basic Search for Policy Violations](#)
- [Performing Advanced Search for Policy Violations](#)

### 14.7.1.1 Performing Basic Search for Policy Violations

To perform a basic search for policy violations:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Policy Violations**. The Policy Violations page is displayed.
3. If fields for advanced search is displayed, then click **Basic**. Otherwise, ignore this step and continue with step 4.
4. From the Search list, select an attribute based on which you can search the policy violations.
5. In the Search box, enter a value of the selected attribute as the search criterion.
6. Click the Search icon. The search result is displayed in a tabular format.

### 14.7.1.2 Performing Advanced Search for Policy Violations

To perform an advanced search for policy violations:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Policy Violations**. The Policy Violations page is displayed.
3. Click **Advanced**. The fields for advanced search are displayed.
4. Select any one of the following:
  - **All:** To specify that the search result must match all the specified search criteria.
  - **Any:** To specify that the search result must match any one of the specified search criteria.
5. Specify values for one or more of the attributes. The search result will be displayed based on the values that you specify for these attributes.

For each attribute, select a search operator from the lists, such as Starts With, Ends With, Equals, Does Not Equal, Contains, and Does Not Contain. For any date field, the search operators are Equals, Before, After, On or before, On or after, Between.
6. Optionally, you can add fields to your search criteria by clicking **Add Fields** and selecting fields from the list. A cross icon is displayed with the added fields. You can click the cross icon to remove the added field.
7. Click **Search**. The search result is displayed in a tabular format.

## 14.7.2 Opening Policy Violation Details

Before taking action on policy violations, the remediator must open the policy violation and review the details. To open a policy violation:

1. In Identity Self Service, click the **Compliance** tab.
2. Click the **Identity Audit** box, and select **Policy Violations**. The Policy Violations page is displayed.
3. You can click each policy name to view the policy violation details in the Violation details page.

In the Violation details page, you can take action on the policy violations, such as remediate, close, or complete the violation. For information about the actions you can take on the policy violation, see "[Remediating or Closing Policy Violations Causes](#)" on page 14-26.

4. Click the **Details** tab, if it is not already active. This tab has the following sections:
  - **Violation Details:** Displays the details of the policy violation, such as the policy attributes, status, detection count, and the user name for which the violation is generated.
  - **Access Details:** Displays the cause of the violation, the rules that have been violated, the status and attributes of the violation, and comments, if any. This section allows you to either close the violation or request for remediation, as described in "[Remediating or Closing Policy Violations Causes](#)" on page 14-26.

You can place your mouse pointer on the information icon in the Rules Violated column to display a popup with details of the violated rule, such as rule name, description, and rule condition.

5. Click the **Action History** tab. This tab displays all the actions on the policy till the current state.

## 14.7.3 Completing Policy Violations

To complete policy violations:

1. Open the Policy Violations page, as described in "[Opening Policy Violation Details](#)" on page 14-25.
2. Search for the policy violation you want to complete. See "[Searching Policy Violations](#)" on page 14-24 for information about searching policy violations.
3. Select the policy violation you want to complete.
4. To complete a policy violation, open the policy violation details by clicking the policy name, and then click **Complete** in the Details tab.

## 14.7.4 Closing Policy Violations

To close policy violations:

1. Open the Policy Violations page, as described in "[Opening Policy Violation Details](#)" on page 14-25.
2. Search for the policy violation you want to close.
3. Select the policy violation you want to close.
4. From the Actions menu, select **Close**. Alternatively, click **Close** on the toolbar.

## 14.7.5 Remediating or Closing Policy Violations Causes

To remediate or close policy violation causes:

1. Open the policy violation details, as described in "[Opening Policy Violation Details](#)" on page 14-25.
2. In the Details tab, under Access Details, select the violation cause that you want to remediate or close.
3. Perform any one of the following:
  - **Remediate:** To remediate the violation cause, from the Actions menu, select **Request for Remediation**. Alternatively, click **Remediate** on the toolbar. Depending on the actor selected to remediate, such as user, manager, or role, the policy violation cause is assigned to them.
  - **Close as Fixed:** To close the violation cause as fixed, from the Actions menu, select **Close as Fixed**. Alternatively, click **Close** on the toolbar, and then select **Close as Fixed**. The Provide Comments dialog box is displayed. Enter a comment, and click **Submit**.
  - **Close as Risk Accepted:** To close the policy violation cause by accepting the violation risk, from the Actions menu, select **Close as Risk Accepted**. Alternatively, click **Close** on the toolbar, and then select **Close as Risk Accepted**. The Provide Comments dialog box is displayed. In the Expiration Date field, specify a date after which the violation will be re-opened if it still exists. In the Comments field, enter a comment, and click **Submit**.

## 14.7.6 Generating Identity Audit Policy Violation Reports

To generate identity audit policy violation reports:

1. In the Identity Self Service, click the **Compliance** tab.
2. Click the **Reports** box. The Identity Audit Reports page is displayed.
3. From the Report Type list, select the type of report that you want to generate. See "Identity Audit Reports" in *Administering Oracle Identity Manager* for information about each report type.
4. From the Category list, select any one of the following:
  - **By Remediator:** To generate the report by the remediator of the policy violation reports. Search and select a remediator user by clicking the search icon.
  - **By Scan Stop Date:** To generate the report by the scans run during a specified date range. Specify the dates in the From and To fields.
  - **By Policy:** To generate the report by the identity audit policies. Search and select a policy by clicking the search icon.
  - **By Manager:** To generate the report by the manager of the user entities for which policy violation occurred. Search and select the manager user by clicking the search icon.
  - **By User:** To generate the report by the user for which policy violation occurred. Search and select a user by clicking the search icon.
5. From the Report Format list, select a report format. The available report formats are PDF, HTML, and Excel.
6. Click **Generate**. The report is generated, which you can open or download.

7. Optionally, you can click **Email Me** if you want the report to be sent via mail to a specified email address. Specify the details about the email, such as email address, subject of the mail, and body of the email. Click **OK**.





# Part IV

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## Working with Identity Administration

This part describes Oracle Identity Manager delegated administration functionalities by using the identity administration features.

It contains the following chapters:

- [Chapter 15, "Managing Users"](#)
- [Chapter 16, "Managing Roles"](#)
- [Chapter 17, "Managing Organizations"](#)
- [Chapter 18, "Managing Administration Roles"](#)
- [Chapter 19, "Managing Password Policies"](#)



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## Managing Users

The user management feature in Oracle Identity Manager includes creating, updating, deleting, enabling and disabling, resetting passwords, locking, and unlocking of user accounts.

You can perform the following user management tasks by using Oracle Identity Self Service:

- [Searching Users](#)
- [Creating a User](#)
- [Viewing User Details](#)
- [Modifying Users](#)
- [Disabling a User](#)
- [Enabling a User](#)
- [Deleting a User](#)
- [Locking a User Account](#)
- [Unlocking a User Account](#)
- [Resetting the User Password](#)

### 15.1 Searching Users

To search for users, you can perform one of the following:

- [Basic Search](#)
- [Advanced Search](#)
- [Operations on Search Results](#)

#### 15.1.1 Basic Search

1. Log in to Identity Self Service.
2. Click **Manage**. The Home tab displays the different Manage option. Click **Users**. The Manage Users page is displayed.
3. To perform basic search, select any one of the following search criteria from the **Search** drop-down and click **Search** icon:
  - User Login
  - First Name

- Last Name
- Identity Status
- E-mail
- Start Date
- End Date
- Display Name
- Account Status
- Organization

It lists the Users that match the selected Search Criteria.

### 15.1.2 Advanced Search

To perform advanced search:

1. Log in to Identity Self Service.
2. Click **Manage**, click **Users**. The Users page is displayed.
3. Click **Advance** link. Advance Users search page is displayed.
4. Select any one of the following options.
  - **All**: On selecting this option, the search is performed with the AND condition. This means that the search operation is successful only when all the search criteria specified are matched.
  - **Any**: On selecting this option, the search is performed with the OR condition. This means that the search operation is successful when any search criterion specified is matched.
5. In the searchable user attribute fields, such as User Login, specify a value. You can include wildcard characters (\*) in the attribute value.

For some attributes, select the attribute value from the list. For example, to search all users with locked accounts, select **Locked** from the Account Status list.

6. For each attribute value that you specify, select a search operator from the list.

The following search operators are available for String type of attributes:

- Starts with
- Ends with
- Equals
- Does not equal
- Contains
- Does not contain

The following search operators are available for Date type of attributes:

- Equals
- Before
- After
- On or before

- On or after
- Between

The search operator can be combined with wildcard characters to specify a search condition. The asterisk (\*) character is used as a wildcard character. For example, you can specify the value of the User Login attribute to be Jo\* as the search criteria, and select Equals as the search operator. The users with login names that begins with Jo are displayed.

7. To add a searchable user attribute to the Search Users page, click **Add Fields**, and select the attribute from the list of attributes.

For example, if you want to search all users with the Country attribute as US, then you can add the Country attribute as a searchable field and specify a search condition.

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**Note:** You can configure the attributes that are searchable. The attributes available for search must be a subset of the attributes defined for the user entity that are marked with the Searchable = Yes property.

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8. Optionally click **Reset** to reset the search conditions and values that you specified. Typically, you perform this step to remove the specified search conditions and specify a new search condition.
9. Click **Search**. The search results is displayed in a tabular format.
10. If you want to hide columns in the search results table, then perform the following steps:
  - a. Click **View** on the toolbar, select **Columns, Manage Columns**. The Manage Columns dialog box is displayed.
  - b. From the Visible Columns list, select the columns that you want to hide.
  - c. Click the left arrow icon to add the columns in the Hidden Columns list.
  - d. Click **OK**. The selected columns are not displayed in the search results. A status message displays along the bottom of the search table to identify how many columns are currently hidden.

### 15.1.3 Operations on Search Results

This section describes the operations that you can perform based on selection of row(s) in the search results table. It is divided into single selection operations and bulk or multiple selection operations.

You can perform the following single selection operations by selecting a user from the search results table:

- View detail
- Modify
- Enable, only if the user status is disabled
- Disable, only if the user status is enabled
- Lock, only if the selected user's account is unlocked
- Unlock, only if the selected user's account is locked

- Reset password
- Delete

You can perform the following bulk or multiple selection operations by selecting multiple users from the search results table:

- Modify
- Enable, only if the user status is disabled
- Disable, only if the user status is enabled
- Lock, only if the selected user's account is unlocked
- Unlock, only if the selected user's account is locked
- Delete

## 15.2 Creating a User

You can create a new user in Oracle Identity Manager by using the Create User page. You can open this page only if you are authorized to create users as determined by the authorization policy on the Create User privilege on any organization in Oracle Identity Manager.

To create a user:

1. In Identity Self Service, click **Manage**. The Home tab displays the different Manage option. Click **Users**. The Manage Users page is displayed.
2. From the Actions menu, select **Create**. Alternatively, you can click **Create** on the toolbar. The Create User page is displayed with input fields for user profile attributes.
3. Enter details of the user in the Create User page.

[Table 15–1](#) describes the fields in the Create User page:

**Table 15–1 Fields in the Create User Page**

Section	Field	Description
Justification and Effective Date	Justification	Justification for creating the user.
	Start Date	Date on which the user must be created.
	Stop Date	Date till which the user must be active.
Basic Information	First Name	First name of the user.
	Middle Name	Middle name of the user.
	Last Name	Last name of the user.
	E-mail	E-mail address of the user.
	Manager	The reporting manager of the user.
	Organization	The organization to which the user belongs. This is also known as the home organization.
	User Type	The type of employee, such as consultant, contractor, contingent worker, employee, full-time employee, intern, non-worker, other, part-time employee, or temporary.

**Table 15-1 (Cont.) Fields in the Create User Page**

<b>Section</b>	<b>Field</b>	<b>Description</b>
	Display Name	It can have localized values, which can be added by clicking Manage Localizations, and selecting from a list of languages. Display Name is available in 33 languages.
Account Settings	User Login	The user name to be specified for logging in to the Administration Console.
	Password	The password to be specified for logging in to the Administration console.
	Confirm Password	Re-enter the password to be specified for logging in to the Administration console.
Account Effective Dates	Start Date	The date when the user will be activated in the system.
	End Date	The date when the user will be deactivated in the system.
Contact Information	Telephone Number	The telephone number of the user.
	Home Phone	The telephone number of the user's residence.
	Fax	The fax number of the user.
	Mobile	The mobile number of the user.
	Pager	The pager number of the user.
	Home Postal Address	The postal address of the user's residence.
	Postal Address	The postal address of the user.
	Postal Code	The postal code number of the user's address.
	PO Box	The post box number of the user's address.
	State	The state name of the user.
	Street	The street name where the user resides.
	Country	The country where user resides.
Preferences	Locale	The locale code of the user.
	Timezone	The timezone of the user.
Other Attributes	Common Name	The common name of the user.
	Department Number	The department number of the user.
	Employee Number	The employee number of the user.
	Generation Qualifier	Whether the user qualifies the generation.
	Hire Date	The hiring date of the user.
	Locality Name	The name of the locality where user resides.
	Initials	The initials of the user.
	Title	The title for the user.

4. Click **Submit** or **Save as Draft**. A message is displayed stating that the user is created successfully.

**Tip:** Users can be created by any one of the following methods:

- By using Oracle Identity Administration
- By self registration
- By using SCIM-based APIs

For all the above methods, Oracle Identity Manager uses the default password policy or Password Policy against Default Rule. If you want to use a different password policy, then you must attach the new password policy to the default rule. To do so, see "[Managing Password Policies](#)" on page 19-1.

For more information about how to use SCIM/REST services, see "Using SCIM/REST Services" in the *Developing and Customizing Applications for Oracle Identity Manager*.

## 15.3 Viewing User Details

The view user operation allows you to view detailed user profile information in the User Details page. You can open this page if you are authorized to view the user's profile as determined by the authorization policy through the View User Details privilege.

To display user details:

1. In Identity Self Service, click **Manage**. The Home tab displays the different Manage option. Click **Users**. The Manage Users page is displayed.
2. Search for the user for which you want to display the details. Follow steps shown in [Searching Users](#).
3. The user details are displayed in the following tabs:
  - **The Attributes Tab:** Displays the attribute profile that includes details about basic user information, account effective dates, and provisioning dates. For more details, see "Editing User Attributes".
  - **The Roles Tab:** Displays a list of roles to which the user belongs. You can click each role to display summary information about the role.

In the Roles tab, you can assign roles to the user and remove roles from the user. For more information, see "[Requesting, Removing, and Modifying Roles](#)" on page 15-8.

- **The Entitlements Tab:** Displays a list of entitlements for the user. You can click each entitlement to display a summary of the entitlement.

In the Entitlements tab, you can request for entitlements and remove entitlements from the user. For more information, see "[Requesting and Removing Entitlements](#)" on page 15-10.

- **The Accounts Tab:** Displays a list of accounts for the user. You can click each account to display a summary of the account.

Typical tasks you perform in this tab are request for an account, modify and remove accounts, mark an account as primary, and disable and enable accounts. For more information, see "[Requesting, Removing, and Modifying Accounts](#)" on page 15-11.



- **The Direct Reports Tab:** Displays a read-only table of users for whom the user is set as the manager. In other words, this tab lists the direct reportees of the user. For each user in the table, it displays the following:
  - Display Name
  - User Login
  - Status
  - Organization

If you select a row in the table, then summary information about the direct reportee is displayed at the bottom.

Direct reports allows you to open the user details of the direct reportees. To do so, select a row in the table of direct reportees, and click the open icon on the toolbar.

- **The Admin Roles Tab:** Displays a list of admin roles assigned to the user. You can select an admin role to display a summary of the admin role.

Using the admin role detail information, you can select or deselect the **include sub-orgs** option. When this option is selected, it specifies that the admin role is applicable to the users of the organization and all the suborganizations of the organization. When this option is not selected, it specifies that the admin role is applicable to the users of the organization only. For more information, see ["Managing Admin Roles"](#) on page 17-9.

## 15.4 Modifying Users

You can perform administrative user modification tasks from the user details. The modification is broken up across the different tabs in the page that displays user details, which means that modifications done in each tab are independent of each other and must be saved individually. The modifications you can perform in each tab is outlined in the following sections:

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**Note:** The modify user operation can be a direct operation or generate a request, which is subject to approval, based on the authorization privileges you have.

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- [Editing User Attributes](#)
- [Requesting, Removing, and Modifying Roles](#)
- [Requesting and Removing Entitlements](#)
- [Requesting, Removing, and Modifying Accounts](#)
- [Modifying Details of Direct Reports](#)

### 15.4.1 Editing User Attributes

To edit the attributes of a user:

1. In Identity Self Service, click **Manage**. The Home tab displays the different Manage option. Click **Users**. The Manage Users page is displayed.
2. Search for the user for which you want to display the details. Follow steps shown in [Searching Users](#).

3. Select the user in the search results table.
4. Modify the user in one of the following ways:
  - Click **Edit** on the toolbar.
  - From the Actions menu, select **Edit**.
  - Click the user login of the user record that you want to modify. On the User Details page, click **Modify User** on the toolbar.
5. In the Modify User page, change values of the attributes in the respective fields as required.
6. Click **Submit**. The modify attribute operation is completed successfully.

## 15.4.2 Requesting, Removing, and Modifying Roles

You can perform the following operations from the Roles tab of the User Details page:

- [Requesting Roles for a User](#)
- [Modifying a Role](#)
- [Removing Roles from a User](#)
- [Modifying Role Grant Duration](#)

### 15.4.2.1 Requesting Roles for a User

In the Roles tab of the User Details page, you can add and remove roles. To assign roles to a user:

1. In the User Details page, click the **Roles** tab. The Roles tab is displayed with the list of roles assigned to the user.

Click the **Granted** tab to view the roles that are granted to you. This includes both direct and indirect roles.

Click the **Pending** tab to view the roles that are pending for approval.
2. From the Actions menu, select **Request**. Alternatively, you can click **Request Roles** on the toolbar. The Catalog page is displayed.
3. Click the search icon next to the Catalog field. A list of catalog items available for requesting is displayed.

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**Note:** The catalog items that are available for requesting by a user is governed by authorization privileges defined for the admin roles of the user.

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4. Select the catalog item for the role that you want to request.
5. Click **Add Selected to Cart**. The selected role catalog item is added to the request cart.
6. Click **Checkout**. The role will be assigned to the user when an approver approves the request.

You can edit the catalog item by clicking **View & Edit**.

### 15.4.2.2 Modifying a Role

To modify a role assigned to a user:

1. In the User Details page, click the **Roles** tab.
2. Select the role that you want to modify.
3. From the Actions menu, select **Open**. Alternatively, click **Open** on the toolbar. The role details is displayed, which is available for editing.
4. Edit the fields that you want to modify. You can click each tab and modify the role hierarchy, role membership, access policies, and organizations. For more information, see "[Viewing and Administering Roles](#)" on page 16-11.
5. Click **Apply**.

#### 15.4.2.3 Removing Roles from a User

To remove roles from a user:

1. In the User Details page, click the **Roles** tab. The Roles tab is displayed with the list of roles assigned to the user.
2. Select the role that you want to remove.
3. From the Actions menu, select **Remove**. Alternatively, you can click **Remove Roles** on the toolbar. The Catalog page is displayed.
4. Click the search icon next to the Catalog field. A list of catalog items available for requesting is displayed.
5. Select the catalog item for the role that you want to remove.
6. Click **Add Selected to Cart**. The selected role catalog item is added to the request cart.
7. Click **Checkout**. The role is either removed immediately or a request is raised depending on authorization privileges granted to the user.  
You can edit the catalog item by clicking **View & Edit**.

#### 15.4.2.4 Modifying Role Grant Duration

To modify the grant duration fields for the role:

1. In the Roles tab of the User Details page, select a role for which you want to modify the grant duration.  
The grant duration fields, Start Date and End Date, are displayed in the Roles tab.
2. From the Actions menu, select **Modify Grant Duration**. Alternatively, click **Modify Grant Duration** on the toolbar. The Modify Grant Duration dialog box is displayed.
3. In the Justification box, enter a justification for modifying the start date, or end date, or both.
4. Enter values in any one or both of the following fields:
  - **Start Date:** The start date when the role will be provisioned. This must be a future date. This field is not available for modification if the role is already assigned to you.
  - **End Date:** The end date when the role will be revoked from you.For more information about grant duration, see "[Adding and Removing Grant Duration](#)" on page 6-9.
5. Click **OK**.

The Start Date and End Date fields in the Roles tab are updated with the values you specified immediately if no approver is assigned else if approver is assigned it is updated after the approval.

### 15.4.3 Requesting and Removing Entitlements

You can perform the following entitlement modification operations from the Entitlements tab of the User Details page:

- [Requesting Entitlements for a User](#)
- [Removing Entitlements from a User](#)
- [Modifying Entitlement Grant Duration](#)

#### 15.4.3.1 Requesting Entitlements for a User

To request entitlements for a user:

1. In the User Details page, click the **Entitlements** tab. The Entitlements tab is displayed with the list of entitlements assigned to the user.
2. From the Actions menu, select **Request**. Alternatively, you can click **Request Entitlements** on the toolbar. The Catalog page is displayed.
3. Click the search icon next to the Catalog field. A list of catalog items available for requesting is displayed.

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**Note:** The catalog items that are available for requesting by a user is governed by authorization privileges defined for the admin roles of the user.

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4. Select the catalog item for the entitlement that you want to request.
5. Click **Add Selected to Cart**. The selected entitlement catalog item is added to the request cart.
6. Click **Checkout**. The Cart Details page is displayed.
7. (Optional) For the requested entitlements, enter any additional information as needed. This additional information can be added using a form associated with the entitlement, provided the entitlement forms have been generated or re-generated by system administrators.

For example, you can enter effective start and end dates for the entitlement. Then, the approver can review and/or modify this additional information and decide whether the entitlements can be provisioned or not. The entitlements will be assigned to the user when the approver approves the request.

#### 15.4.3.2 Removing Entitlements from a User

To remove entitlements from a user:

1. In the User Details page, click the **Entitlements** tab. The Entitlements tab is displayed with the list of entitlements assigned to the user.
2. Select the entitlement that you want to remove.
3. From the Actions menu, select **Remove**. Alternatively, you can click **Remove Entitlements** on the toolbar. The Catalog page is displayed.

4. Click the search icon next to the Catalog field. A list of catalog items available for requesting is displayed.
5. Select the catalog item for the entitlement that you want to remove.
6. Click **Add Selected to Cart**. The selected entitlement catalog item is added to the request cart.
7. Click **Checkout**. The entitlement will be removed from the user when an approver approves the request.

You can edit the catalog item by clicking **View & Edit**.

### 15.4.3.3 Modifying Entitlement Grant Duration

To modify the grant duration fields for the entitlement assigned to the open user:

1. In the Entitlements tab of the User Details page, select an entitlement for which you want to modify the grant duration.  
The grant duration fields, Start Date and End Date, are displayed in the Entitlements tab.
  2. From the Actions menu, select **Modify Grant Duration**. Alternatively, click **Modify Grant Duration** on the toolbar. The Modify Grant Duration dialog box is displayed.
  3. In the Justification box, enter a justification for modifying the start date, or end date, or both.
  4. Enter values in any one or both of the following fields:
    - **Start Date:** The start date when the entitlement will be provisioned. This must be a future date. This field is not available for modification if the entitlement is already assigned to the user.
    - **End Date:** The end date when the entitlement will be revoked from the user.
- For more information, see "[Adding and Removing Grant Duration](#)" on page 6-9.
5. Click **OK**.

The **Start Date** and **End Date** fields in the **Entitlements** tab are updated with the values you specified immediately if no approver is assigned else if approver is assigned it is updated after the approval.

## 15.4.4 Requesting, Removing, and Modifying Accounts

You can perform the following account modification operations from the Accounts tab of the User Details page:

- [Requesting for an Account](#)
- [Modifying an Account](#)
- [Removing an Account](#)
- [Marking an Account as Primary](#)
- [Disabling an Account](#)
- [Enabling an Account](#)
- [Modifying Account Grant Duration](#)

### 15.4.4.1 Requesting for an Account

You can request accounts by requesting an application instance. You can request for the following types of accounts (application instances):

- **Primary account:** A primary account is the first account created for a user in a target application. In other words, a primary account is the first application instance that is being requested. Oracle Identity Manager supports multiple accounts for a single application instance. The first account that is created is tagged as primary account, and there can be only one primary account for a user. The other accounts (non-primary accounts) are associated with the primary account. When the user requests entitlements, the entitlements are appended to the primary account.
- **Non-primary account:** If a user already has a primary account and requests for another account in the same target application, then that account is a non-primary account. A user can have multiple non-primary accounts, but only one primary account.

**See Also:** "[Marking an Account as Primary](#)" on page 15-13 for more information on marking an account as primary

To request for an account:

1. In the User Details page, click the **Accounts** tab. This tab lists the accounts of the user.
2. From the Actions menu, select **Request**. Alternatively, click **Request Accounts** on the toolbar. The Catalog page is displayed.
3. Click the search icon next to the Catalog field. A list of catalog items available for requesting is displayed.

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**Note:** The catalog items that are available for requesting by a user is governed by authorization privileges defined for the admin roles of the user.

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4. Select the catalog item for the account that you want to request. In other words, select the application instance that you want to request.
5. Click **Add Selected to Cart**. The selected account catalog item is added to the request cart.
6. Click **Checkout**. The account will be granted to the user when an approver approves the request.

You can edit the catalog item by clicking **View & Edit**.

### 15.4.4.2 Modifying an Account

To modify an account for the user:

1. In the **Accounts** tab, select the account that you want to modify.
2. From the **Actions** menu, select **Modify**. Alternatively, click **Modify Accounts** on the toolbar. The account details is displayed which is available for editing.
3. Edit the fields that you want to modify.

4. Click **Ready to Submit** and then click **Submit**.

#### 15.4.4.3 Removing an Account

To remove an account from the user:

1. In the **Accounts** tab, select the account that you want to modify.
2. From the **Actions** menu, select **Remove**. Alternatively, click **Remove Accounts** on the toolbar. The Remove Accounts page is displayed.
3. Click **Submit**.

#### 15.4.4.4 Marking an Account as Primary

Oracle Identity Manager supports multiple accounts in a single application instance. The first account that is created is tagged as the primary account, and there can be only one primary account for a user. The other accounts (non-primary accounts) are associated with the primary account.

All types of entitlements are available for request in the request catalog. If the request for an entitlement is approved, it is associated with the primary account and not the non-primary account.

When the user gets provisioned to an application instance, Oracle Identity Manager checks if it is the first account provisioned for the user in that application instance. If so, the account is marked as primary. When existing user accounts are reconciled from application instances, the first account that gets reconciled is marked as primary.

A user can have only one primary account. However, Oracle Identity Manager supports multiple accounts for a single application instance. If the account marked as primary is not supposed to be the actual primary account, you can manually change the primary tag for the account and mark another account as primary. By doing so, you can ensure that when the user requests entitlements, the entitlements are appended to the primary account.

To mark an account as a primary account:

1. In the **Accounts** tab, select the account that you want to mark as primary.
2. From the **Actions** menu, select **Make Primary**. Alternatively, click **Make Primary** on the toolbar.

A message is displayed asking for confirmation.

3. Click **Yes** to confirm. The account is marked as primary.

#### 15.4.4.5 Disabling an Account

You can disable an account that is in enabled state. To disable an account:

1. In the **Accounts** tab, select the account that you want to disable.
2. From the **Actions** menu, select **Disable**. Alternatively, click **Disable** on the toolbar.
3. Click **Submit**. The account is disabled.

#### 15.4.4.6 Enabling an Account

You can enable an account that is in disabled state. To enable an account:

1. In the **Accounts** tab, select the disabled account that you want to enable.
2. From the **Actions** menu, select **Enable**. Alternatively, click **Enable** on the toolbar.
3. Click **Submit**. The account is enabled.

#### 15.4.4.7 Modifying Account Grant Duration

To modify the grant duration fields for the account assigned to the open user:

1. In the Accounts tab of the User Details page, select an account for which you want to modify the grant duration.

The grant duration fields, Start Date and End Date, are displayed in the Accounts tab.

2. From the Actions menu, select **Modify Grant Duration**. Alternatively, click **Modify Grant Duration** on the toolbar. The Modify Grant Duration dialog box is displayed.
3. In the Justification box, enter a justification for modifying the start date, or end date, or both.
4. Enter values in any one or both of the following fields:
  - **Start Date:** The start date when the account will be provisioned. This must be a future date. This field is not available for modification if the account is already assigned to the user.

- **End Date:** The end date when the account will be revoked from the user.

For detailed information about grant duration, see "[Adding and Removing Grant Duration](#)" on page 6-9.

5. Click **OK**.

The Start Date and End Date fields in the Accounts tab are updated with the values you specified immediately if no approver is assigned else if approver is assigned it is updated after the approval.

### 15.4.5 Modifying Details of Direct Reports

To modify the details of direct reports:

1. In the User Details page, click the **Direct Reports** tab. This tab lists the direct reports of the open user.
2. Select the user or direct report you want to modify.
3. From the Actions menu, click **Open**. Alternatively, click **Open** on the toolbar. The User details page of the selected direct report is displayed. Use the toolbar and tabs to modify the details of the direct report.

## 15.5 Disabling a User

To disable a user that is in enabled state:

1. In Identity Self Service, click **Manage**. The Home tab displays the different Manage option. Click **Users**. The Manage Users page is displayed.
2. Search for the user for which you want to display the details. Follow steps shown in [Searching Users](#).



3. Select the user you want to disable.
4. Disable the user in one of the following ways:
  - Click **Disable** on the toolbar.
  - From the Actions menu, select **Disable**.
  - Click the user login of the user record that you want to disable. On the User Details page, click **Disable User** on the toolbar.
5. In the Target Users section, click the plus icon to search for more target users and add to the list of users that you want to disable. You can also view the user details by clicking the **User Details** link for each user.
6. In the Justification and Effective Date section, specify a justification and effective date for disabling the selected user.
7. Click **Submit**. A message is displayed stating that the user is successfully disabled.

## 15.6 Enabling a User

To enable a disabled user:

1. In Identity Self Service, click **Manage**. The Home tab displays the different Manage option. Click **Users**. The Manage Users page is displayed.
2. Search for the user for which you want to display the details. Follow steps shown in [Searching Users](#).
3. Select the user you want to enable.
4. Enable the user in one of the following ways:
  - Click **Enable** on the toolbar.
  - From the Actions menu, select **Enable**.
  - Click the user login of the user record that you want to enable. On the User Details page, click **Enable User** on the toolbar.
5. In the Target Users section, click the plus icon to search for more target users and add to the list of users that you want to enable. You can also view the user details by clicking the **User Details** link for each user.
6. In the Justification and Effective Date section, specify a justification and effective date for enabling the selected user.
7. Click **Submit**. A message is displayed stating that the user is successfully enabled.

## 15.7 Deleting a User

To delete a user:

1. In Identity Self Service, click **Manage**. The Home tab displays the different Manage option. Click **Users**. The Manage Users page is displayed.
2. Search for the user for which you want to display the details. Follow steps shown in [Searching Users](#).
3. Select the user you want to delete.
4. Delete the user in one of the following ways:
  - Click **Delete** on the toolbar.

- From the Actions menu, select **Delete**.
  - Click the user login of the user record that you want to delete. On the User Details page, click **Delete User** on the toolbar.
5. Verify that the selected user is displayed in the Target Users section.
  6. If required, in the Target Users section, click the plus icon to search for more target users and add to the list of users that you want to delete. You can also view the user details by clicking the **User Details** link for each user.
  7. In the Justification field, enter a justification for deleting the user.
  8. In the Effective Date field, specify a date from which the user account must be removed.
  9. Click **Submit**. A request to delete the user is created, which is subject to approval.

## 15.8 Locking a User Account

To lock the account of a user:

1. In Identity Self Service, click **Manage**. The Home tab displays the different Manage option. Click **Users**. The Manage Users page is displayed.
2. Search for the user for which you want to display the details. Follow steps shown in [Searching Users](#).
3. Select the user you want to lock.

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**Note:** Users with special characters in the user login name cannot be locked.

When you try to lock a user account that contains some special characters in the user login name, the following error is displayed:

An unknown exception occurred, please review server logs.The user with the key *USER\_KEY* does not exist.

The following special characters are not allowed in the user login name:

```
[!@#%&^&*( )_+=[]\|;:","<.>?/~
```

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4. Lock the user in one of the following ways:
  - Click **Lock Account** on the toolbar.
  - From the Actions menu, select **Lock Account**.
  - Click the user login of the user record that you want to lock. On the User Details page, click **Lock Account** on the toolbar.
5. In the confirmation message that is displayed, click **Lock**. The account of the selected user is locked.

## 15.9 Unlocking a User Account

To unlock the account of a user:

1. In Identity Self Service, click **Manage**. The Home tab displays the different Manage option. Click **Users**. The Manage Users page is displayed.

2. Search for the user for which you want to display the details. Follow steps shown in [Searching Users](#).
3. Select the user you want to unlock.
4. Unlock the user in one of the following ways:
  - Click **Unlock Account** on the toolbar.
  - From the Actions menu, select **Unlock Account**.
  - Click the user login of the user record that you want to unlock. On the User Details page, click **Unlock Account** on the toolbar.
5. In the confirmation message that is displayed, click **Unlock**. The account of the selected user is unlocked.

## 15.10 Resetting the User Password

To reset the password for a user:

1. In Identity Self Service, click **Manage**.
2. Click the icon in the Users box. The Users page is displayed.
3. Search and select the user for which you want to reset the password.
4. From the Actions menu, select **Reset Password**. Alternatively, you can click **Reset Password** on the toolbar. You can also open the user details, and then click **Reset Password** on the toolbar.

The Reset Password dialog box is displayed.

5. Select any one of the following options:
  - **Manually change the Password:** To reset the password by entering a new password. To do so, select this option, and enter a new password in the New Password and Confirm Password fields. You can click the information icon to view the criteria to specify a password.

When you select the **Manually change the Password** option, you can select the **E-mail the new password to the user** option if you want the new password to be sent via e-mail to the user. Otherwise, do not select this option.
  - **Auto-generate the Password (Randomly generated):** To enable Oracle Identity Manager to generate a random password. When you select this option, the **E-mail the new password to the user** option is selected by default.
6. Click **Reset Password**. The password of the open user is reset.



Oracle Identity Manager provides a comprehensive set of role-based access control capabilities. Roles make it easier to assign access levels to users and to audit those assignments on an ongoing basis. Role-based access control ensures higher visibility and ease in assigning and unassigning access privileges to users, enforces the notion of least privilege, and enables compliance and audit insight.

Role-based administration typically grows and expands as new situations occur, such as applications are onboarded or phased out, as business requirements evolve. The main advantage of using this approach is ease of implementation and compliance oversight. Role-based administration can be established in a centralized fashion, distributed throughout your network, or hybridized.

Using this feature in Oracle Identity Manager, you can:

- Create, edit, and delete roles via role owner approvals to enforce increased accountability and audit
- Assign users to roles and remove users from roles
- Assign a role as a parent role to an existing role
- View access policies assigned to a role
- Add, edit, or remove user membership rule of a role
- Publish roles to organizations and unpublish roles from organizations
- Make educated decisions to administer role content via advanced role analytics

This chapter describes roles and functionalities related to roles in the following sections:

- [Role Membership Inheritance](#)
- [Default Roles](#)
- [Role Management Tasks](#)

### 16.1 Role Membership Inheritance

This section discusses the following topics:

- [About Role Membership Inheritance](#)
- [Evaluate Policies for Role Inheritance](#)

### 16.1.1 About Role Membership Inheritance

Membership inheritance means that the members of the inheritor role inherit from the inherited role. For example:

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**Note:** The role that inherits membership is called the member-inheritor role. The role from which the member-inheritor role inherits membership is called the inherited-member role

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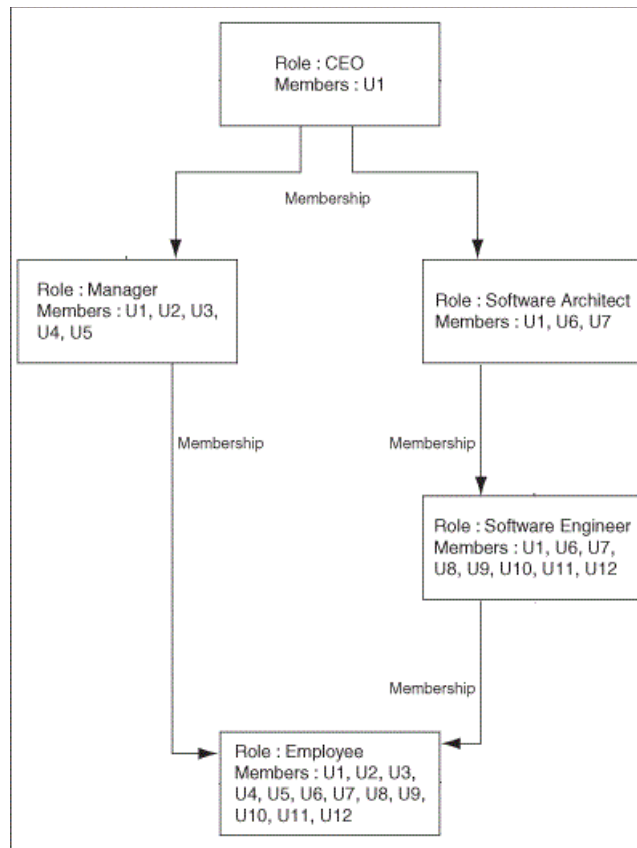
- Role B inherits memberships from Role A. Role B is the member-inheritor role to Role A.
- Role C also inherits memberships from Role A. Role C is also a member-inheritor role of Role A.

In this example, all members of Role A are also implicit or indirect members of Role B and Role C, but members of Role B are not automatically members of Role A. In other words, Roles B and C are the member-inheritor roles of Role A, and Role A is the inherited-member role of Role B and Role C. A real example for this is that the Employee Role (Role B) inherits memberships from the Manager Role (Role A).

Role membership inheritance is described with the help of the following scenario:

- The role of CEO is an inherited-member role of the Manager role, as a list of managers will include the CEO role.
- The role Manager is an inherited-member role of the Employee role.
- The role Software Architect is an inherited-member role of the Software Engineer role.
- The role Software Engineer is an inherited-member role of the Employee role.
- The Employee role has two inherited-member roles - the Manager role and the Software Engineer role.

[Figure 16–1](#) shows the parent and child roles in this example, along with the membership inheritance:

**Figure 16-1 Role Membership Inheritance**

Each user in an inherited-member role automatically becomes a member in any of its member-inheritor roles. If that member-inheritor role is itself an inherited-member role, then the user is also added to its member-inheritor roles, and so on. This continues until there are no more member-inheritor roles in the inheritance chain. For example, a CEO is a manager and is automatically a member of the Manager role. Similarly, a manager is automatically an employee. This is why a member added to an inherited-member role gets inherited by its member-inheritor roles, and so on. This explains why the direct membership of the Employee role is empty, and considering membership inheritance, the Employee role has more members than all other roles.

A user can be a member of a role in one of the following ways:

- The member has been inherited from the inherited-member role, which is called indirect membership.
- The user is directly assigned to the role, which is called direct membership.
- The user is directly assigned to the role by using membership rules, which is also called direct membership.

An indirect member can be assigned as a direct member as well. If a user's direct membership in a role is revoked, the user is still a member of that role because of inheritance.

## 16.1.2 Evaluate Policies for Role Inheritance

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**Note:** This feature is available in Oracle Identity Manager Release 11.1.2.3.x onwards.

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Oracle Identity Manager supports inheriting the access granted via access policies from the parent role to child role. This is enabled by setting **XL.AllowRoleHierarchicalPolicyEval** system property to TRUE. This is explained in the following example:

- Role1 contains Policy1 which contains account A1 and entitlement E1.
- Role2 contains Policy2 which contains account A1 and entitlement E2
- Role1 is parent role of Role 2.
- If **XL.AllowRoleHierarchicalPolicyEval** is set to TRUE, then when you grant Role2 to User1, User1 will get account A1 and entitlements E1 and E2.
- If **XL.AllowRoleHierarchicalPolicyEval** is set to FALSE, then when you grant Role2 to User 1, User1 will get account A1 and Entitlement E2 (which are part of Role1).

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**Note:** It is not required to restart the server after this property is changed.

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## 16.2 Default Roles

In Oracle Identity Manager, the following types of roles are available:

- **Enterprise roles:** These are roles that users (depending on the permissions granted) can create, modify, or delete in Oracle Identity Manager and request for the roles by using the access catalog.
- **Admin roles:** These are predefined roles in Oracle Identity Manager that have a one-to-one mapping with the application roles defined in Oracle Entitlement Server. Admin roles are not visible to the end users. Therefore, admin roles cannot be requested. However, you can create and manage admin roles, as described in "[Managing Administration Roles](#)" on page 18-1.

[Table 16–1](#) shows the list of default roles in Oracle Identity Manager.

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**Note:** If you upgrade from Oracle Identity Manager 11g Release 1 (11.1.1), then the default roles of 11g Release 1 (11.1.1) will be available.

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**Table 16–1** *Default Roles in Oracle Identity Manager*

Role	Description
ALL USERS	Members of this role have minimal permissions, including the ability to access the user's own user record. By default, each user belongs to the ALL USERS role.



**Table 16–1 (Cont.) Default Roles in Oracle Identity Manager**

Role	Description
SYSTEM ADMINISTRATORS	For this role, name and display name are read-only. All other operations are permitted on this role, such as adding/removing parent roles, access policies, organizations, rules, and members.  <b>Note:</b> By default, XELSYSADM and OIMINTERNAL users are members of this role.
Administrators	This role is for internal use only, meaning it is for Oracle Identity Manager users, and other users can only view it on UI. Oracle WebLogic Server administrator is a member of this role.
OPERATORS	This role is for internal use only, meaning it is for Oracle Identity Manager users, and other users can only view it on UI.
SELF OPERATORS	This role is for internal use only, meaning it is for OIM users, and other users can only view it on UI. No users are associated with this role.  <b>Note:</b> Oracle Identity Manager recommends that you do not modify the permissions associated with the SELF OPERATORS user role. In addition, you should not assign any users to this role.
BIReportAdministrator	This role is for internal use only, meaning it is for Oracle Identity Manager users, and other users can only view it on UI. This role is an Administrators role for BI Publisher Reports.

## 16.3 Role Management Tasks

This section discusses the following topics:

- [Creating Roles](#)
- [Managing Roles](#)

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**Note:** A role, SELF OPERATORS, is added to Oracle Identity Manager by default. No users are associated to this role.

Oracle recommends that you do not modify the permissions associated with the SELF OPERATORS role and do not assign users to this role.

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**Tip:** Managing role category is deprecated in the current release and any reference to it in this version of Oracle Identity Manager is only for backward compatibility.

### 16.3.1 Creating Roles

To create a role:

1. Login to Oracle Identity Self Service.
2. Click the **Manage** tab.
3. Click the Roles box. The Roles page is displayed.
4. From the **Actions** menu, select **Create**. Alternatively, click **Create** on the toolbar. The Attributes page of the Create Role wizard is displayed.
5. Under General Role Information, specify values for Name, Display Name, Role E-mail, Role Description, and Owned By details.

By default, the value in the Role Display Name field is populated by the value of the Role Name field. You can change the value if you want.

If a value of the Owned By field is not specified, then it takes the logged-in user as the role owner.

6. Under Catalog Attributes, specify values for the attributes. These attributes are displayed in the role details of the request catalog. See ["Requesting New Access"](#) on page 6-1 for more information about viewing the details of a role in the request catalog.

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**Note:** A role can be created without role hierarchy, associated access policies, role members and organizations to which the role is published. Therefore, steps 5 through 8 are optional.

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7. Click **Next**. The Hierarchy page of the Create Role wizard is displayed.
8. In the Hierarchy page, you can choose parent roles for the role you are creating.

To inherit permissions from the existing role, click **Add Parent Roles**. The Search Role dialog box is displayed. To search and select a parent role:

  - a. From the Search list, select an attribute based on which you want to search the parent role.
  - b. In the Search box, enter a value of the selected attribute, and click the Search icon. The asterisk (\*) character is used as a wildcard character.

Roles matching the search criteria are listed.

If you do not specify a search criterion, all the default roles are listed.
  - c. From the list of roles, select the required Role and click **Add Selected**.

Alternatively, you can add all the listed roles. To do so, click **Add All**.
  - d. If you want to deselect any roles from Selected roles list, click **Remove Selected** or **Remove All** options.
  - e. Click **Select**. The Define Role Hierarchies panel lists the selected roles.
  - f. If you want to undo adding the parent role, then click **Undo** on the toolbar. A warning is displayed. Click **Undo** to confirm.
  - g. If you want to remove any parent role, then click **Remove** on the toolbar. A warning is displayed. Click **Remove** to confirm.

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**Note:** You can click the **Undo** button for undoing the addition of any items in multiple pages of the Create Role wizard. Similarly, you can click the **Remove** button to remove any selected item from multiple pages of the wizard. This is applicable to the Hierarchy, Access Policy, Members, and Organization pages.

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- h. Click **Next**. The Access Policy page of the Create Role wizard is displayed.
9. In the Select Access Policy panel, you can add access policies to define access rights to this role.

The access policies that are available for associating with a role are created by using Oracle Identity System Administration. See ["Managing Access Policies"](#) in

Oracle Fusion Middleware Administering Oracle Identity Manager for information about creating and managing access policies.

To add access policies to the role:

- a. Click **Add Access Policies**. The Add Access Policies dialog box is displayed.
  - b. Select the desired search criteria and click the **Search** icon. The access policies that match the search criteria are listed.
  - c. From the list of Access Policies, select the required access policy and click **Add Selected** or to add all the listed capabilities click **Add All**.
  - d. If you want to deselect any Access Policy from Selected Access Policy list and click **Remove Selected** or **Remove All** options.
  - e. Click **Select**. The Define Access Policy panel lists the selected access policies.  
If you want to add more policies or remove policies from this list follow procedure in "[The Access Policy Tab](#)" on page 13.
  - f. Click **Next**. The Members page of the Create Role wizard is displayed.
10. In the Members page, you can add members to the role either statically by selecting one or more users or dynamically by specifying membership rules.

To add a member to a role:

- a. Search for Users by using appropriate search criteria and click the Search icon. Users matching the search criteria are listed.
- b. From the list of users select the required user and click **Add Selected** or to add all the listed users click **Add All**.  
If you want to deselect any User from Selected users list click **Remove Selected** or **Remove All** options.
- c. Click **Select**. The Members tab is displayed with the assigned users in the Member Assignment section.

Select the **Start Date** and **End Date** for with this role is assigned to the user. If you do not specify a value in the **Start Date** field, then the role is assigned immediately as soon as the role is created either directly or after role creation request approval.

If the **Start Date** is of future then grant will happen on that day, when the *Process Pending Role Grants* job is run, which is scheduled to run daily. On the **End Date** the grant on the role is revoked when the *Process Pending Role Grants* job is run.

To create membership rules for dynamically assigning members to a role:

- a. Click **Create Membership Rule** to open the User membership rules for role tab.
- b. In the Expression Builder tab, under Attributes tab, select an attribute, such as Country, and then click **Add**. The attribute is added to the expression builder for which you can specify a value. In addition, the Literals tab is displayed.
- c. In the Value field, enter a value for the selected attribute, such as US, and then click **Add**. The value is added to the expression builder. The expression for the membership rule specifies that users with Country as US will be members of the selected role.

- d. Click the **Preview Results** tab. The role members that match the expression you specified are listed. You can use this preview for offline impact analysis to view the role members that meet the rule criteria.
  - e. Click **Save**. The Members tab is displayed with the membership rule added in the User Membership Rule section.
  - f. If you want the membership rule to be evaluated as soon as the role is created, then select the **Evaluate membership rule now** option.  
  
If you want to add/remove more role members or membership rules, then perform the procedures described in "[The Members Tab](#)" on page 14.
  - g. Click **Next**. The Organization page of the Create Role wizard is displayed.
11. In the Organizations page, you can specify the organizations to which the role will belong. In other words, you can publish the role to one or more organizations. See "[The Organizations Tab](#)" on page 16-17 for more information about publishing roles to organizations.

To assign organizations:

- a. Click **Add Organizations**. The search panel is displayed.
  - b. From the list of Organizations, select the required organization and click **Add Selected** or to add all the listed organizations click **Add All**.  
  
If you want to deselect any organization from Selected Organization list click **Remove Selected** or **Remove All** options.
  - c. Click **Select**. The Organizations tab is displayed with the list of Organizations to which this role will be published.  
  
If you want to add more organizations or remove them from this list follow procedure in "[The Organizations Tab](#)" on page 17.
  - d. Click **Next**. The Summary page of the Create Role wizard is displayed.
12. The Summary page displays the role summary information of the role that will be created. Role summary contains all information related to role, such as parent roles, access policies, members, and organizations. The Summary tab also has the **View Analytics** button when the Identity Audit feature is enabled.  
  
Optionally, click **View Analytics** to open the analytic details of the role that is being created. This button is displayed only when the Identity Audit feature is enabled. For detailed information about role analytics, see "[Viewing Role Analytics](#)" on page 16-20.
13. Click **Finish**. The role is created successfully.

Depending on the admin role assignment of the logged-in user and the applicable approval workflow rule, a request is generated, or the role is created directly and the role details page is displayed. In addition, a request is generated when the Identity Audit feature is enabled.

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**Note:** When role workflows are enabled, the role is created only after all the approvers in the workflow have approved. The role is not created successfully unless approved.

If new members are added, then a separate request is submitted for role grant (which is controlled by its own approval workflow). And if there are multiple grants, then the request is a parent request. On its approval, child requests will be raised for each role grant. Each child request must be approved before the grant happens.

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## 16.3.2 Managing Roles

You can find roles, add information to them, and perform other administrative functions for roles.

This section discusses the following topics:

- [Searching for Roles](#)
- [Viewing and Administering Roles](#)
- [Viewing Role Analytics](#)
- [Deleting Roles](#)

### 16.3.2.1 Searching for Roles

To search for Role you can perform one of the following:

- [Basic Search](#)
- [Advanced Search](#)

**16.3.2.1.1 Basic Search** To perform basic search:

1. Log in to Identity Self Service.
2. Click the **Manage** tab, and then click the **Roles** box. The Roles page is displayed.
3. Select any one of the following search criteria from the Search list:
  - Display Name
  - Name
  - Role Namespace
4. In the Search field, enter a search criteria. You can optionally use the asterisk (\*) wild card character in the search criteria for basic search. The asterisk (\*) character is used as a wildcard character. For example, you can specify the value of the Display Name attribute to be Jo\* as the search criteria, and select Equals as the search operator. The roles with Display Name that begins with Jo are displayed.
5. Click the search icon. The roles that match the selected search criteria are listed.

**16.3.2.1.2 Advanced Search** To perform advanced search:

1. Log in to Identity Self Service.
2. Click the **Manage** tab, and then click the **Roles** box. The Roles page is displayed.
3. Click the **Advanced** link. Advance Roles search page is displayed.
4. Select any one of the **Match** options:

- **All:** On selecting this option, the search is performed with the AND condition. The roles are displayed in search result for which all the search criteria specified have matched.
  - **Any:** On selecting this option, the search is performed with the OR condition. The roles are displayed in search result for which any one of the search criteria specified has matched.
5. In the searchable role attribute fields, such as Display Name, specify a value.  
For some attributes, select the attribute value from the lookup. For example, to search all roles in the Default role category, select Default in the Role Category field.
6. For each attribute value that you specify, select a search operator from the list. The following search operators are available for text type of attributes:
- Starts with
  - Ends with
  - Equals
  - Does not equal
  - Contains
  - Does not contain
7. To add a searchable role attribute to the Search Roles page, click **Add Fields**, and select the attribute from the list of attributes.  
For example, if you want to search all roles whose description contains `custom admin role`, then select **Role Description** from Add Fields, and specify a search condition as Contains and value as `custom admin role`.

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**Note:** You can configure the attributes that are searchable. All default and custom-defined searchable role attributes are shown in Add Fields. The searchable attribute are the ones marked with the `Searchable = Yes` property.

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8. Optionally click **Reset** to reset the values that you specified as search conditions. Typically, you perform this step to remove the specified search conditions and specify a new search condition.
9. If you want to save the search criteria for future use, then click **Save**. See "[Using Saved Search](#)" on page A-4 for information about creating and managing saved search.
10. Click **Search**. The search results is displayed in a tabular format.
11. If you want to hide columns in the search results table, then perform the following steps:
- a. Click **View** on the toolbar, select **Columns, Manage Columns**. The Manage Columns dialog box is displayed.
  - b. From the **Visible Columns** list, select the columns that you want to hide.
  - c. Click the left arrow icon to add the columns in the **Hidden Columns** list.
  - d. Click **OK**. The selected columns are not displayed in the search results.

### 16.3.2.2 Viewing and Administering Roles

You can open the details of a role and edit the role attributes, modify the role inheritance and membership, and then publish roles to organization. To open the details of a role and modify it, perform one of the following:

- In the Search Roles page, search and select the role that you want to open. From the Actions menu, select **Open**. Alternatively, click **Open** on the toolbar.
- In the search results table of the Search Roles page, click the name of the role.

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**Note:** After modifications are made to the role, the modifications go through an approval process, if role workflows are configured. Only when the approvers approve, the role changes are reflected in Oracle Identity Manager.

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The details of the role is displayed in a new page. The role display name is displayed at the top of the page. You can display the details of the role and modify role information in the following tabs of this page:

- [The Attributes Tab](#)
- [The Hierarchy Tab](#)
- [The Access Policy Tab](#)
- [The Members Tab](#)
- [The Organizations Tab](#)
- [The History Tab](#)

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**Note:**

- After you make changes in any one or more of the tabs in the role details page, click **Apply** to save the changes.
  - Depending upon the approval workflow configuration, a request might be generated for any change made to a role.
- 
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#### 16.3.2.2.1 The Attributes Tab

The Attributes tab displays the role attributes. Except for the Role Namespace field (which is a read-only field), the rest of the fields in the Attributes tab are same as available in the Create Role page. The Role Namespace field displays the namespace to which the role is assigned.

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**Note:** Modifying the values of Name and Display Name attribute for default roles, for example OPERATORS, ALL USERS, and SELF OPERATORS, is not supported.

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If you modify the attribute values in the Catalog Attributes section, then the modifications are also displayed in Detailed Information section of the corresponding catalog item in the request catalog. See "[Requesting New Access](#)" on page 6-1 for more information about viewing the details of a role in the request catalog.

To modify the role attributes, change the values in the fields, and click **Apply**.

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**Note:** Roles with same names are allowed with different name spaces.

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#### 16.3.2.2.2 The Hierarchy Tab

The Hierarchy tab displays the role hierarchy information in the following sections:

- **Inherits From:** This section displays the parent roles from which the open role is inherited. The base role has the same permissions and privileges on the members as the inherited roles. Only inherited roles can be added or removed from the base role, but the base role cannot be added or removed from the inherited role.
- **Inherited By:** This section lists the child roles that are inherited by the open role. This is a read-only display of the roles.

In the Hierarchy tab, you can perform the following:

- [Adding a Parent Role to a Child Role](#)
- [Removing a Parent Role from a Role](#)
- [Displaying Summary Information for Parent/Child Roles](#)

#### 16.3.2.2.3 Adding a Parent Role to a Child Role

To add a parent role to a role:

1. Open the role.
2. Click the **Hierarchy** tab. In the Inherits From section, this tab lists the parent roles of the opened role and the opened role inherits the permissions from these parent roles.
3. Verify that Inherits From is active.
4. From the Actions menu, select **Add**. Alternatively, click **Add** on the toolbar. The Search Roles dialog box is displayed.
5. From the Search list, select a role attribute based on which you want to search for the role. Then, select an attribute by using the lookup icon. You can also include wildcard characters (\*) in your search criterion. Then, click the search icon. A list of roles that matches your search criterion is displayed.
6. Select one or more roles that you want to add as parent roles. Then, click **Add Selected** to move the selected roles to the Selected Roles list.  
Alternatively, you can click **Add All** to add all the roles in the Selected Roles list.
7. Click **Select**. The selected roles are added as parent roles to the opened role and the role hierarchy is displayed in the Inherits From section of the Hierarchy tab.
8. Select the inherited role that is added. A summary information of the selected role is displayed in a popup.

#### 16.3.2.2.4 Removing a Parent Role from a Role

To remove a parent role from a role:

1. In the Inherits From section of the Hierarchy tab, select the role that you want to remove.
2. From the Actions menu, select **Remove**. Alternatively, click **Remove** on the toolbar. A message box is displayed asking for confirmation.



3. Click **Remove**. Pending action is filled with Remove. Repeat this if you want to remove more than one role. And click **Undo** if you do not want to remove the role that is already marked for removal.
4. Click **Apply**. If workflow is configured, then the inherited roles selected are removed from the Inherits From section of the Hierarchy tab after approval.

#### 16.3.2.2.5 Displaying Summary Information for Parent/Child Roles

You can display read-only summary information of the parent roles from the Inherits From section of the Hierarchy tab. You can also display summary information of the child roles from the Inherited By section.

To display the summary information of a parent/child role:

1. To display the summary of the parent role, in the Inherits From section of the Hierarchy tab, click the Display Name of the role for which you want to display the summary information.

A popup is displayed with the summary information of the parent role. It displays the role name, role display name, role description, role category, and the user who owns the role.

2. Close the popup.

3. To display the summary of the child role, in the Inherited By section of the Hierarchy tab, click the Display Name of the role for which you want to display the summary information.

A popup is displayed with the summary information of the child role. It displays the role name, role display name, role description, role category, and the user who owns the role.

4. Close the popup.

#### 16.3.2.2.6 The Access Policy Tab

The Access Policy tab displays the access policies assigned for the role. In this tab, you can assign the access policies to the role or remove the access policies that are already assigned to the role.

In the Access Policies tab, you can perform the following:

- [Adding an Access Policy to a Role](#)
- [Removing an Access Policy](#)

#### Adding an Access Policy to a Role

To add access policies to a role:

1. From the **Actions** menu, select **Add**. Alternatively, click **Add** on the toolbar.
2. Select the desired search criteria and click the **Search** icon. Access Policies matching the search criteria are listed.
3. From the list of Access Policies, select the required Access Policy and click **Add Selected** or to add all the listed capabilities click **Add All**.
4. If you want to deselect any access policy from the Selected Policies list, then select the access policy from the Selected Policies list, and click **Remove Selected**. You can click **Remove All** to deselect all the selected access policies.
5. Click **Select**. The selected access policies are displayed in the Access Policy tab. Pending action is filled with Add. Repeat this if you want to add more policies.

You can click **Undo** if you do not want to add the policy that is already marked with add.

6. Click **Apply**. The request is to be approved if it raises a workflow. Then the selected policies are added to the role.

### Removing an Access Policy

To remove the access policy assigned to this role:

1. From the list of access policies assigned, select the access policy that you want to remove.
2. From the **Actions** menu, select **Remove**. Alternatively, click **Remove** on the toolbar.
3. Click **Remove** to confirm. The selected access policy is removed from the Access Policy tab. Pending action is filled with Remove. Repeat this if you want to remove more policies. You can click **Undo** if you do not want to remove the policy that is already marked with remove.
4. Click **Apply**. The request is to be approved if it raises a workflow. Then the selected policies are removed from the role.

#### 16.3.2.2.7 The Members Tab

The Members tab displays the members assigned to the open role. This information is displayed in the following sections:

- **Direct Members:** This section displays the members that are statically assigned to the open role.
- **Rule Based Members:** This section displayed the members that are assigned to the open role via membership rules.
- **Indirect Members:** This section displays the members that are indirectly inherited by the role.
- **All Members:** This section displays all the members, direct and indirect, assigned to the open role.
- **Pending Members:** This section displays all the members that are pending for this role, that is the role assignment date assigned with future start date.

In the Members tab, you can perform the following:

- [Assigning Members to a Role](#)
- [Revoking Members from a Role](#)
- [Adding, Modifying, and Deleting Membership Rules](#)

#### 16.3.2.2.8 Assigning Members to a Role

To assign members to a role:

1. In the Direct Members section of the Members tab, click **Add**. The Add Members dialog box is displayed.
2. From the Search list, specify a role attribute name. Enter a search parameter in the search field, and click the search icon. The roles that match the search criteria are displayed.
3. Select the role that you want to assign, and click **Add Selected**. The selected role is added to the Selected Users table.

To add all the roles to the Selected Users table, click **Add All**.

4. If you want to remove a role from the Selected Users table, then select the role and click Remove Selected. To remove all roles from the Selected Users table, click **Remove All**.
5. Click **Select**. Pending action is filled with Add. Repeat this if you want to add more users. You can click **Undo** if you do not want to add the user that is already marked with add.
6. Click **Apply**. The request is to be approved if it raises a workflow. Then the selected members are added to the role.

#### 16.3.2.2.9 Revoking Members from a Role

To revoke members from a role:

1. In any section of the Members tab, select the member that you want to remove.
2. Click **Remove** on the toolbar. A message is displayed asking for confirmation.
3. Click **Remove** to confirm. Pending action is filled with Remove. Repeat this if you want to remove more users. You can click Undo if you do not want to remove the user that is already marked with remove.
4. Click **Apply**. The request is to be approved if it raises a workflow. Then the selected members are removed from the role.

#### 16.3.2.2.10 Adding, Modifying, and Deleting Membership Rules

In the Members tab, you can add, modify, or delete the user membership rules by using the expression builder. The expression builder lets you specify a condition based on which users are dynamically assigned to roles. You can specify simple to complex condition expressions as the user membership rule. When you modify a user membership rule, the existing user memberships are evaluated, and then the existing role memberships that are not valid are revoked and new role memberships are granted.

To add a user membership rule:

1. In the Members tab, click **Create Membership Rule**. The Expression Builder is displayed.
2. In the left pane, verify that <ADD> is selected. This is the placeholder to specify a user attribute for the condition.
3. Under Select Operand Value, in the Attributes tab, select a user attribute, for example, **Country**.
4. Click **Add** to add the attribute to the condition in the left pane.
5. From the list of operators, select a comparator. In Build Expression, select a comparator from the list of operators. If the attribute is of type integer, then comparators, such as = (equals), > (greater than), >= (greater than equal to), < (less than), => (less than equal to), and IN, are displayed.

If the attribute is of type String, then comparators, such as = (equals), != (not equals), Contains, Starts with, Ends with, and IN, are displayed.

6. Under Select Operand Value, in the Literals tab, specify a value in the Value field, such as United States of America.

When a checkbox or lookup type UDF or default attribute is used in membership rule, then it must be treated as shown in the following example:

```
( ( ( Last Name = "Klein" ) AND ( First Name Contains "Robert" ) )
OR ( ( User Login Starts with "rob" ) AND ( Common Name Ends with "ein" ) )
OR ( ( Robert2UserUDF111DL != "Robert2UserUDF111DL" ) AND ( Robert2UserNumberDL
>= 99999 )
AND ( RobertUserDateDL <= 2013-12-31 ) AND ( Robert2UsercheckboxDL = "1" )
AND ( Robert2UserLookupDL IN ["RobertLookUpCode3","RobertLookUpCode9"] ) ) )
```

Here:

- Robert2UsercheckboxDL is check box, which must be used in the rule as a string. Use "1" to check for True/yes/Selected/Checked, and use "0" to check for False/no/Unselected/unchecked.
- Robert2UserLookupDL is lookup type. In the default userprofile, "Robert2LookUpMean3" will be displayed. But you must use its code value "Robert2LookUpCode3" in the expression.
- For All type of Attributes, there is no way to check NULL or no value.

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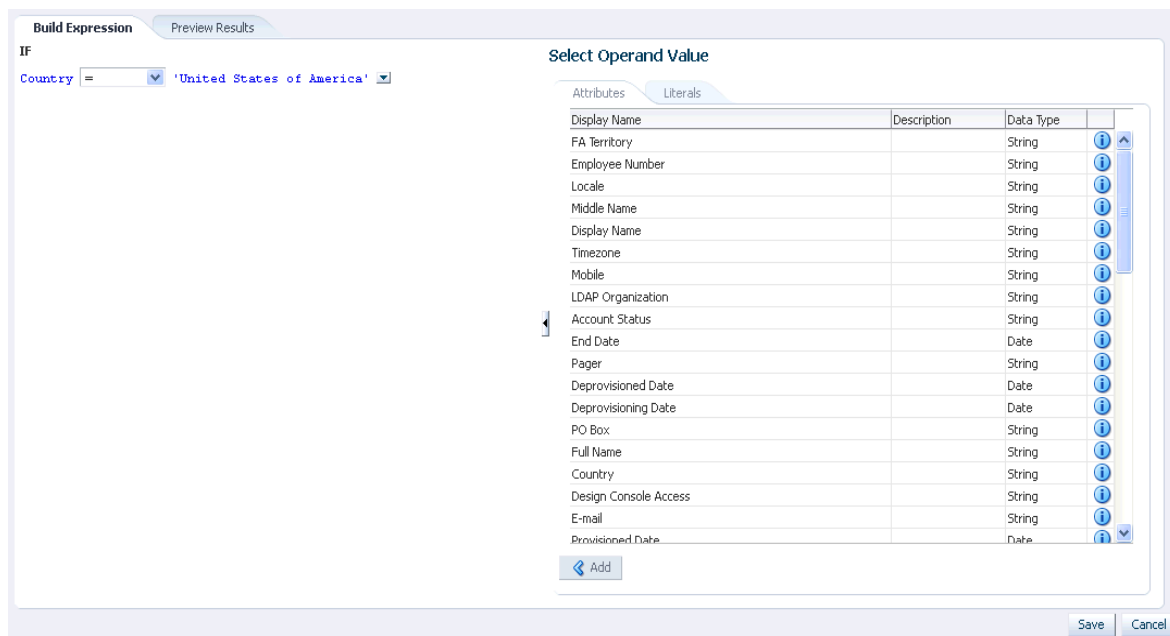
**Note:** Checkbox fields are stored as strings in the backend. The data type for a checkbox field is a String and not Boolean. Therefore, all string operations will be displayed.

---

7. Click **Add** to add the specified value to the condition expression. The expression now means that users belonging to United States of America will be dynamically assigned to the open role.

Figure 16–2 shows the expression builder with the condition.

**Figure 16–2 The Expression Builder**



8. If required, on the Preview Results tab, you can preview members to whom this rule will be applied.
9. Click **Save**. The expression builder closes, and the rule you defined has been saved.

10. Click **Evaluate membership rule now** to evaluates this rule against all users immediately, else you will have to run the Refresh Role Memberships scheduled job to evaluate rule.

To modify a user membership rule:

1. In the Members tab, in the User Membership Rule section, click **Edit Rule**. The expression builder is displayed.
2. Specify a condition to dynamically assign members, as described in the steps for adding membership rule.
3. If required, on the Preview Results tab, you can preview members to whom the modified rule will be applied.
4. Click **Save**. The expression builder closes, and the rule you modified has been saved. You can then click the Apply, Apply and Evaluate, and Revert buttons, as required.

To delete a user membership rule:

1. In the Members tab, in the User Membership Rule section, click **Delete Rule**. A dialog box asking to confirm whether you want to delete the membership rule is displayed.
2. Click **Yes**. The membership rule is deleted.

After adding, modifying, or deleting user membership rule, click **Apply**. The request is to be approved if it raises a workflow. Then the rule is added, edited, or removed from the role. Rule evaluation takes place immediately if the **Evaluate membership rule now** option is selected. Otherwise, it will be evaluated only when the Refresh Role Memberships scheduled job is ran.

#### 16.3.2.2.11 The Organizations Tab

The Organizations tab allows you to assign and revoke organizations to and from the open role. By assigning an organization to the open role, you make the role available to the organization. This is called publishing the role entity to an organization.

All the organizations, to which the open role has been published, are displayed in the Organizations tab. For each organization, the **include sub-orgs** option is available for selection in the Hierarchy Aware column. Select this option if you want the open role to be available to the entire hierarchy of the organization. To make the open role available only to the organization and not its hierarchy, leave this option deselected.

In the Organizations tab, you can perform the following:

- [Publishing Roles to an Organization](#)
- [Revoking Roles From an Organization](#)

#### 16.3.2.2.12 Publishing Roles to an Organization

To publish roles to an organization:

1. In the Role details page, click the **Organizations** tab. This tab displays the organizations that are assigned to the open role.
2. From the Actions menu, select **Add**. Alternatively, click **Add** on the toolbar. The Add Organizations dialog box is displayed.
3. Search for the organizations you want to add. The organizations are displayed in the Organization Results section.

4. Select the organizations that you want to add, and click **Add Selected**. The selected organizations are added to the Selected Organizations section.
5. For each selected organization, the **Hierarchy** option is selected by default. If you want to publish the role to the suborganizations of the selected organization, then leave the **Hierarchy** option selected.

To publish the role to the selected organization only, deselect the **Hierarchy** option.

6. Click **Select**. Pending action is filled with Add. Repeat this if you want to add more organizations. You can click **Undo** if you do not want to add the organization that is already marked with add.

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**Note:** if no organization is selected, then the role is auto published to the organization of the logged-in user and to the organizations on which the logged-in user has admin roles capabilities.

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#### 16.3.2.2.13 Revoking Roles From an Organization

To revoke a role from an organization:

1. In the Organizations tab, select the organization from which you want to revoke the role.
2. To revoke the role from sub organizations of the currently selected organization, select the **Hierarchy Aware** option, and then click **Apply**. A message is displayed. Click **Revoke**.
3. From the Actions menu, select **Remove**. Alternatively, click **Remove** on the toolbar. A message is displayed asking for confirmation.
4. Click **Remove**. Pending action is filled with Remove. Repeat this if you want to remove more organizations. You can click Undo if you do not want to remove the organizations that are already marked with remove.
5. Click **Apply**. The request is to be approved if it raises a workflow. Then the selected organizations are added or removed from the role.

#### 16.3.2.2.14 The History Tab

The History tab is displayed only when Identity Audit is enabled in the Oracle Identity Manager deployment.

This tab displays all data about the open role that have been modified within a specified date range. Using this tab, the role administrator can track any changes to the role definition. The role administrator can enter a date range, and view the modifications that have been done within that date range to the role attributes, role hierarchy, access policies, role memberships, organizations, membership rules, and role certifications. By default, the history for the last seven days is displayed in this tab.

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**Note:** In the History tab, data is available for only the retention period for auditing that is configured in the Remove Audit Log Entries scheduled job, for example, six months. See "Predefined Scheduled Tasks" in Administering Oracle Identity Manager for information about the Remove Audit Log Entries scheduled job.

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In the History tab, you can perform the following:

- [Searching Role History](#)
- [Viewing Role History](#)

#### 16.3.2.2.15 Searching Role History

To search for role history:

1. Open the role.
2. Click the **History** tab.
3. In the Search History section, enter a date range in the two date fields. You can also click the calendar icons and select the dates.
4. Click **Search**. The role history within specified date range is populated in the subtabs of the History tab. For example, all role attribute modifications are listed in the Attributes subtab.

You can click **Reset** to reset the date ranges mentioned.

If you do not specify any values in the date fields and click Search, then all modifications made to the role from its creation till date are displayed in the subtabs.

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**Note:** All data shown in History is read-only and can not be modified.

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#### 16.3.2.2.16 Viewing Role History

To view role history:

1. Search for role history by specifying a date range, as described in "[Searching Role History](#)" on page 16-19.
2. Click the **Attributes** tab. The modifications made to the role attributes within the specified date range are displayed in a table. The columns in the table provide information about the attributes modified, the new value of the attributes, the old value of the attributes before modification, the date on which the attribute is modified, and the user who updated the attribute.
3. Click the **Hierarchy** tab. This tab displays the modifications made in the role hierarchy of the open role in a tabular format. The columns in the table provide information about the Display Name of the parent that have been added/removed, the change action (add/modify/delete), the user who modified the role hierarchy, and the dates on which the modification have been done.
4. Click the **Access Policy** tab. This tab displays the modification made to the access policies associated with the open role in a tabular format. The columns in the table provide information about the policy names that have been added/removed, the user who modified the access policies, the change action, and the dates on which the access policies were modified.
5. Click the **Organizations** tab. This tab displays the modifications made to the organization assignment of the open role in a tabular format. The columns in the tab provide information about the organization name that have been added or removed or updated, the change action, the user who modified the organization assignment, and the dates on which the modification have been done.
6. Click the **Role Membership** tab. This tab displays the modification made to the role membership of the open role in a tabular format. The columns in the table

provide information about the user names that have been added or removed, the change action, the user who modified the role membership, and the dates on which the modification have been made.

7. Click the **Membership Rules** tab. This tab displays the modifications made to the membership rules in a tabular format. The columns in the table provide information about the rule name that have been modified, the change action (add/update/remove), the user who modified the rule, and the dates on which the modification have been done.
8. Click the **Certification** tab. This tab displays the certifications performed for the open role in a tabular format. The columns in the table provide information about the certification name that have been modified, the user who certified, and the dates on which the last certification have been made.

### 16.3.2.3 Viewing Role Analytics

When Identity Audit is enabled, administrators or approvers can view the role analytics during creation/modification/track request/approval of a role, such as impact analysis on users that will be or are assigned the role, role consolidation information, and SoD violations.

Role analytics can be viewed in the following ways:

- In the Summary page of the Create Role wizard, click **View Analytics**.
- In the role details page, if you modify any attribute or any other data, then the **View Analytics** button is available.
- In the Request Details tab of the Pending Approvals page, click **View Analytics**. This is for the request approver to compare the role with other existing roles to justify or reject the creation of the requested role.

To view role analytics:

1. In the Summary page of the Role Creation wizard, or in the role details page, or in the Request Details tab of the Pending Approvals page, click **View Analytics**. The Analytic Details page for the role is displayed. This page has the following sections:
  - **Impact Analysis:** Displays the number of potential users members that will be affected when a role is created/modified/deleted. The impact analysis is based on changes to the user membership rule and/or access policy association changes. The parameter affecting the members is user membership rule. Based on the rule, the potential members can be evaluated and displayed on the approval UI. The list of user names are paginated. This section also displays the impact of adding or removing the access policies from the role. The impact displays which users will get the entitlements associated with the access policy added as well as the users that will have the entitlements revoked when an access policy is removed from the role.
  - **SoD Violations:** Displays any access policies or entitlements within and across access policies that are in SoD conflict. See "[Managing Identity Audit](#)" on page 14-1 for information about configuring identity audit rules and policies.
  - **Role Consolidation:** Displays contextual information about how similar the role is to other roles in the access catalog. The similarity is based on the entitlements of the two roles. The entitlement matching percentage must be at least 50 percent to be considered as a match. When a match is found, the common memberships must be calculated. Only the top three percentage matches are displayed, if they match the 50 percent cutoff. For example, if the



top three percentages are 100%, 85%, and 50%, and 10 roles match 100%, one role match 85%, and 8 roles match 50%, then all of these are displayed.

If the percentage of entitlements matching is greater than or equal to 50%, then the percentage of users matching is also displayed along with the percentage of matching entitlements.

2. Click the down arrow in the **Impact Analysis** box.

An overview of the impact on users and entitlements of the role is displayed. Impact Analysis is displayed in the following sections:

- **Users:** This section provides a graphical representation of the users that have been added and deleted, and the unchanged users. It shows users that are added/revoked only via membership rules and does not show the users that are added/removed directly.
- **Users Added:** This section contains a table that shows the usernames, user login IDs, and the email IDs of the users that have been added to the role. It has the following subsections:
  - **Users Deleted:** This section contains a table that shows the usernames, user login IDs, and the email IDs of the users that have been revoked from the role.
  - **Users Unchanged:** This section contains a table that shows the usernames, user login IDs, and the email IDs of the users that are unchanged in the role.

To view more details about each user, you can click the user name. More information about the user is displayed in the User Details popup. It displays information about added/deleted/modified users and entitlements. Click **Cancel** to close the User Details popup.

- **Entitlements:** This section provides a graphical representation of the entitlements that have been added and deleted, and the unchanged entitlements.
- **Entitlements Added:** This section contains a table that shows the Display Name, Entitlement Name, and Description of the entitlements that have been added to the role. It contains the following subsections:
  - **Entitlements Deleted:** This section contains a table that shows the display names, entitlement names, and descriptions of the entitlements that have been revoked from the role.
  - **Entitlements Unchanged:** This section contains a table that shows the Display Name, Entitlement Name, and Description of the entitlements that are unchanged in the role.

To view more information about each entitlement, click the entitlement name. More information about the entitlement is displayed in a popup.

3. Click the down arrow in the **SoD Violations** box. The SoD Violations box already shows the number of items that are in violation. When you activate this box, all the SoD policies that are in violation are displayed. When you click a policy, the details of the policy are displayed in the Description box. This box lists all the items that are in violation. The name and description of the items are displayed in a tabular format. On selecting each item, the severity of the violation is also shown above the table.
4. Click the down arrow in the **Role Consolidation** box. The Role Consolidation box already shows the number of roles that are similar to the open role. Similar roles

are roles with matching entitlements. For these similar roles, memberships match is then computed, irrespective of whether they have any memberships or not. All roles are considered, pending, direct grants, and dynamic memberships

The role comparison is represented as a graph, which shows the similar roles and the membership and entitlement matching percentage of the similar roles with the open role.

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**Note:** Roles without members are considered for role consolidation. The similarity is only based on entitlements. After similar roles are found, then membership match for only those roles are computed. It could be 0 if the similar role has no memberships.

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5. You can click **Back** to go back to the previous page.

#### 16.3.2.4 Deleting Roles

To delete a role:

1. In the Search Roles page, search for a role as described in "[Searching for Roles](#)" on page 16-9.
2. Select the role that you want to delete.
3. From the Actions menu, select **Delete**. Alternatively, click **Delete** on the toolbar.

If the role has existing relationships, such as parent roles, access policies, members, or organizations, then a message is displayed stating that , Deleting the selected role will also delete its relationships.

4. Click **Yes** to confirm.

If workflows are configured, then an approval task is sent to the Role Owner for approval, and the role is not deleted from the system until all approvers have approved. During the approval, the approver can see the impact of deleting the role by clicking **View Analytics**.

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## Managing Organizations

An organization entity represents a logical container of entities such as users and other organizations in Oracle Identity Manager. Organization in Oracle Identity Manager is used only for security purposes.

Organizations allow you to:

- Logically and securely manage user accounts and administrators
- Limit access to users, applications, roles, and entitlements

Customers can setup delegated administration by creating organizations and assigning users to various locations in an organizational hierarchy. Organizations that contain one or more other organizations are called parent organizations.

All Oracle Identity Manager users (including administrators) are statically assigned to one organization. Users also can be dynamically assigned to additional organizations. Oracle Identity Manager administrators are additionally assigned to control organizations.

The tasks related to organization management are performed in the Organizations section of Identity Self Service.

The tasks are described in the following sections:

- [Searching Organizations](#)
- [Creating an Organization](#)
- [Viewing and Modifying Organizations](#)
- [Creating a User Member](#)
- [Creating a Suborganization](#)
- [Disabling and Enabling Organizations](#)
- [Deleting an Organization](#)

### 17.1 Searching Organizations

To search for organizations you can perform one of the following:

- [Basic Search](#)
- [Advanced Search](#)

### 17.1.1 Basic Search

1. Log in to Identity Self Service.
2. Click **Manage**. Click **Organizations** box. The Organization page is displayed.
3. To perform basic search, select any one of the following search criteria from the Search drop-down and click **Search** icon:
  - Organization Name
  - Type
  - Organization Status
  - Parent Organization Name
  - Certifier User Login

The search results table displays the organization name, parent organization name, organization type, and organization status.

### 17.1.2 Advanced Search

1. Log in to Identity Self Service.
2. Click **Manage** and click **Organizations** box. The Organization page is displayed.
3. Click **Advance** link. Advance Organization search page opens.
4. Select any one of the following **Match** options:
  - **All:** Search is performed with the AND condition. This means that the search operation is successful only when all the search criteria specified are matched.
  - **Any:** Search is performed with the OR condition. This means that the search operation is successful when any search criterion specified is matched.
5. In the Organization Name field, enter the organization name search attribute that you want to search. To do so, select a search comparator. The default search comparator is Starts With. The Equals comparator is available in the list as an alternative.

You can use wildcard characters to specify the organization name.

6. From the Type list, select the organization type. The organization type can be Branch, Company, or Department.
7. To add a field in your search:
  - a. Click **Add Fields**, and select a field, such as Organization Status.
  - b. Enter value for the search attribute that you added. In this example, from the Organization Status list, select the organization status, which can be Active, Deleted, or Disabled.

If you want to remove a field that you added in the search, then click the cross icon next to the field.

8. Click **Search**. The results are displayed in the search results table.

The search results table displays the organization name, parent organization name, organization type, and organization status.

## 17.2 Creating an Organization

To create an organization:

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**Note:** Organizations are persisted in the Oracle Identity Manager database regardless of whether the users and groups are stored in a Directory or the Oracle Identity Manager database.

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1. In Identity Self Service, click **Manage** to open the Home Page. Click **Organizations**. The Search Organizations page is displayed.
2. From the Actions menu, select **Create**. Alternatively, click **Create** on the toolbar. The Create Organization page is displayed.
3. In the Organization Name field, enter the name of the organization.
4. From the Type list, select the type of the organization, such as Branch, Company, or Department.
5. Specify the parent organization to which the newly created organization will belong. To do so:
  - a. Click the search icon next to the Parent Organization field. The Search Organizations dialog box is displayed.
  - b. Search and select the organization that you want to specify as the parent organization.
  - c. Click **Select**. The selected organization is added as the parent organization.
6. (Optional) Select a user in the Certifier User Login field to specify the selected user as the organization certifier of the organization being created.

See "[Setting User Manager and Organization Certifier](#)" on page 13-5, for information about organization certifier.

7. Organization can control password behavior of the users entering into it by using home organization modification of the user. If the Home Organization of a user gets changed from one organization to other, and the password policies attached to these two organizations are different, then the Enforce password policy flag of the new home organization will determine if the user has to change the password as per the password policy of the new home organization at the next logon or user can continue using the same password.

Select the Enforce password policy on reassignment from the drop down. Options are, Inherit from Parent Org, No, or Yes. Default value is Yes.

- If Enforce password policy on reassignment is Yes, then the user has to change password as per the password policy of the new home organization at the first login after home organization is changed.

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**Note:** In case, challenge policy is enabled in the password policy of new home organization, then new password and challenge question has to be set at the first login.

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- If Enforce password policy on reassignment is No, then user can continue using the existing password.

- If Enforce password policy on reassignment is Inherit from Parent Org, then value Yes or No is inherited from its nearest parent where it is set.
8. Specify a password policy name that you want to associate with the organization. To do so:
    - a. Click the search icon next to the Password Policy Name field. The Search Password Policy Name dialog box is displayed.
    - b. Search and select the password policy that you want to associate with the organization. To list all password policies, you can click the search icon, and then you can select the password policy from the search results.

For information on how to create a new password policy see, [Managing Password Policies](#).
    - c. Click **Add**. The selected password policy name is added to the Password Policy Name field.
  9. Click **Save** to create the organization.

## 17.3 Viewing and Modifying Organizations

To open the details of an organization:

1. In Identity Self Service, click **Manage** to open the Home Page. Click **Organizations**. The Search Organizations page is displayed.
2. Search and select the organization whose details you want to display.
3. From the Actions menu, select **Open**. Alternatively, click **Open** on the toolbar. The details of the selected organization is displayed in a new page.

You can perform administrative organization modifications in the organization details page. The modification is divided across the different sections of the organization details page, which means that modifications done in each section are independent of each other and must be saved individually. The modification for each section is described in the following sections:

- [Modifying Organization Attributes](#)
- [Managing Child Organizations](#)
- [Viewing Organization Membership](#)
- [Managing Dynamic Organization Membership](#)
- [Managing Admin Roles](#)
- [Viewing Available Accounts](#)
- [Viewing Provisioned Accounts](#)
- [Viewing Available Entitlements](#)

### 17.3.1 Modifying Organization Attributes

The Attributes tab of the organization details page displays attributes of the organization. If you are authorized to modify the organization profile as determined by authorization policy, then the organization details page opens in editable mode, and you can modify organization information. You can modify the values for the attributes, and then click **Apply** to save the changes.

Whether or not the logged-in user is allowed to modify the organization is controlled by authorization policies. If you are not allowed to modify the organization, then the organization details page is displayed in read-only mode with no editable fields.

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**Note:** The Status attribute in the organization details page is read-only.

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## 17.3.2 Managing Child Organizations

The Children tab displays a list of child organizations that the open organization has. For each child organization in the list, the organization name, organization type, and organization status are displayed.

The Children tab enables you to perform the following:

- [Creating a Child Organization](#)
- [Deleting a Child Organization](#)
- [Disabling a Child Organization](#)
- [Enabling a Child Organization](#)
- [Opening a Child Organization](#)

### 17.3.2.1 Creating a Child Organization

In the Children tab, you can create a child organization or suborganization of the open organization by selecting **Create Sub-org** from the Actions menu. Alternatively, click **Create Sub-org** on the toolbar. The Create organization page is displayed. Perform the steps described in "[Creating an Organization](#)" on page 17-3 to complete creating the child organization.

### 17.3.2.2 Deleting a Child Organization

To delete a child organization:

1. In the Children tab, select the organization you want to delete.
2. From the Actions menu, select **Delete**. Alternatively, click **Delete** on the toolbar. A message is displayed asking for confirmation.
3. Click **Delete** to confirm. The selected child organization is deleted.

### 17.3.2.3 Disabling a Child Organization

To disable a child organization:

1. In the Children tab, select the organization you want to disable.
2. From the Actions menu, select **Disable**. Alternatively, click **Disable** on the toolbar. A message is displayed asking for confirmation.
3. Click **Disable** to confirm. The selected child organization is disabled.

### 17.3.2.4 Enabling a Child Organization

To enable a child organization:

1. In the Children tab, select the organization you want to enable.
2. From the Actions menu, select **Enable**. Alternatively, click **Enable** on the toolbar. A message is displayed asking for confirmation.
3. Click **Enable** to confirm. The selected child organization is enabled.

#### 17.3.2.5 Opening a Child Organization

To open a child organization:

1. In the Children tab, select the organization you want to open.
2. From the Actions menu, select **Open**. Alternatively, click **Open** on the toolbar, or click the name of the organization.

The organization details page for the selected organization is displayed, by using which you can modify the details of that organization.

### 17.3.3 Viewing Organization Membership

The Members tab that displays a list of users in the open organization. For each user in the list, the following are displayed:

- User Login
- Display Name
- First Name
- Last Name
- E-mail
- Relationship Type

**Tip:** You can add or remove users to and from organizations by using the Attributes tab of the user details page.

The Relationship Type column displays the type of relationship that the user member has with the organization. This is described in detail in "[Managing Dynamic Organization Membership](#)" on page 17-6.

### 17.3.4 Managing Dynamic Organization Membership

Users are assigned to organizations by specifying an organization name in the Organization attribute of the user details. This is called a static membership. In addition, you can dynamically assign users to organizations based on user-membership rules, which you can define in the Members tab of the organization details page. All users that satisfy the user-membership rule are dynamically associated with the organization irrespective of which organization hierarchy the users statically belong to.

Each organization can have one user-membership rule that enables a user to be a member of multiple organizations at a time, and thereby view and request for additional resources.

The dynamic memberships can be revoked by changing the user-membership rules.



Managing dynamic user-organization memberships is described in the following sections:

- [Creating a Dynamic Organization Membership Rule](#)
- [Modifying a Dynamic Organization Membership Rule](#)
- [Deleting a Dynamic Organization Membership Rule](#)

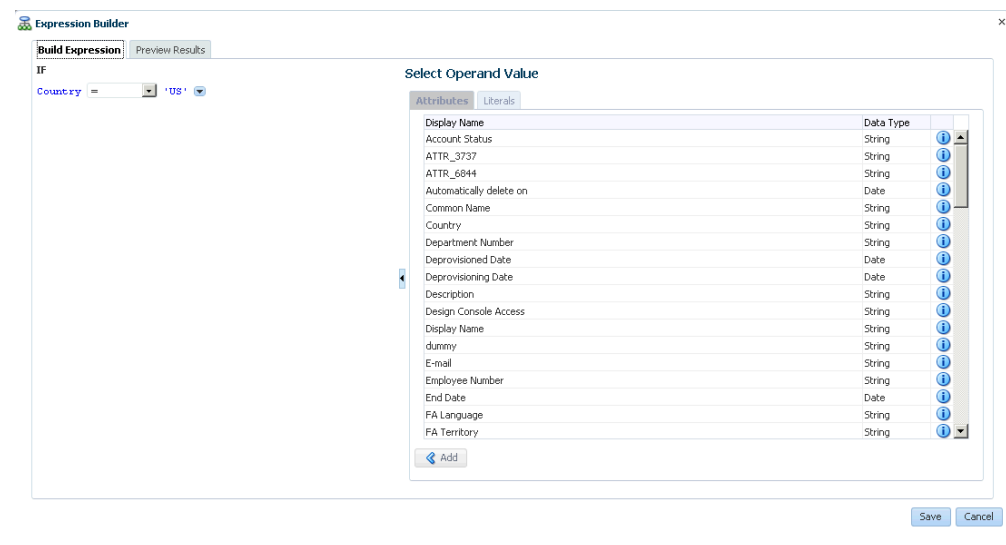
### 17.3.4.1 Creating a Dynamic Organization Membership Rule

To create dynamic membership rule for an organization:

1. In the Members tab of the organization details page, click **Add Rule**. The Expression Builder is displayed.
2. In the Attributes tab, select an attribute, such as Country, and then click **Add**. The attribute is added to the expression builder for which you can specify a value. In addition, the Literals tab is displayed.
3. In the Value field, enter a value for the selected attribute, such as US, and then click **Add**. The value is added to the expression builder. The expression for the membership rule specifies that users with Country as US will be members of the selected organization.

Figure 17–1 shows the Expression Builder with a sample dynamic organization membership rule.

**Figure 17–1 Dynamic Organization Membership Rule**



4. Click the **Preview Results** tab. This tab displays all the users that match the specified membership rule and will be assigned to the selected organization.
5. Click **Save**. The Members tab is displayed with the membership rule added in the User Membership Rule section.
6. Click any one of the following:
  - **Apply**: Clicking this button saves the membership rule for later evaluation. The users matching the rule criteria will be assigned to the selected organization when you run the Refresh Organization Memberships scheduled

job. This scheduled job evaluates the changes in user-organization membership rules since the last job run and assigns users to organizations based on the rules. For more information about this scheduled job, see "Predefined Scheduled Tasks" in the *Oracle Fusion Middleware Administering Oracle Identity Manager*.

- **Apply and Evaluate:** Clicking this button saves the membership rule and evaluates it against all users. As a result, the users that match the rule criteria are displayed in the list of members of the selected organization. The Relationship Type column for such users display Dynamic Member because these users are assigned to the selected organization based on the membership rule.
- **Revert:** Clicking this button reverts the changes done after saving.

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**WARNING:** The membership rule will be lost if you close the organization details page without clicking any one of the Apply or Apply and Evaluate buttons.

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#### 17.3.4.2 Modifying a Dynamic Organization Membership Rule

To modify a user-membership rule:

1. In the User Membership Rule section of the Members tab, click **Edit Rule**. The Expression Builder is displayed with the user-membership rule.
2. If you want to change the attribute in the existing user-membership rule, then click the attribute to select it, and select another attribute in the Attributes tab. When finished, click **Add**.

Similarly, you can click the value to change it and specify a different value.

3. To add more criteria to the user-membership rule, click the down arrow and select any operator, such as AND or OR. To remove the rule, select REMOVE. You can specify complex criteria by building an expression as required.
4. Click the **Preview Results** tab. This tab displays all the users that match the specified membership rule and will be assigned to the selected organization.
5. Click **Save**. The Members tab is displayed with the modified membership rule in the User Membership Rule section.

#### 17.3.4.3 Deleting a Dynamic Organization Membership Rule

To delete a user-membership rule:

1. In the User Membership Rule section of the Members tab, click **Delete Rule**. A warning message is displayed asking for confirmation.
2. Click **Yes** to confirm the deletion.

After confirming the rule deletion, all the organization memberships are deleted immediately in the post-process. There is no offline evaluation for organization membership rule deletion.

## 17.3.5 Managing Admin Roles

You can view the admin roles that are assigned to an organization by clicking the **Admin Roles** tab of the organization details page. The admin roles and their corresponding description are listed in this tab. When you select an admin role, the users who have the selected admin role are displayed in the User Members section. This tab also allows you to grant and revoke admin roles available to the open organization to users.

In the Admin Roles tab, you can perform the following:

- [Granting an Admin Role](#)
- [Revoking an Admin Role](#)

### 17.3.5.1 Granting an Admin Role

To grant an admin role to a user:

1. In the organization details page, click the **Admin Roles** tab. A list of admin roles assigned to the open organization is displayed.
2. Select the admin role that you want to grant to a user.
3. From the Actions menu, select **Assign**. Alternatively, click **Assign** on the toolbar. The Advanced Search for Target Users dialog box is displayed.
4. Search for the target users to whom you want to grant the selected admin role. You can select the **Just show my directs** option to list only your direct reports.
5. In the User Results section, select the user that you want to grant the admin role.
6. Click **Add Selected** to move the selected user to the Selected Users section. Alternatively, you can click **Add All** to move all the users from the User Results section to the Selected Users section.
7. Click **Select**. The admin role is granted to the selected user. When you click the admin role in the Admin Roles tab, the selected user's record is displayed in the User Members section.
8. In the User Members section, select the user record. Select the **include sub-orgs** option to grant the admin role to the user's organization and its suborganizations. If you want to grant the admin role to the user's organization only, then do not select this option.

### 17.3.5.2 Revoking an Admin Role

To revoke an admin role from a user:

1. In the Admin Roles tab, select an admin role from which you want to revoke the user.
2. In the User Members section, select the user from whom you want to revoke the admin roles.
3. From the Actions menu, select **Revoke**. Alternatively, click **Revoke** on the toolbar. A message is displayed asking for confirmation.
4. Click **Revoke** to confirm. The user record is no longer displayed when you select the admin role.

To revoke user from suborganizations of the currently opened organization, select the **include sub-orgs** option, and click **Apply** in the User Members section.

### 17.3.6 Viewing Available Accounts

The accounts available to an organization are the accounts that have been published to the organization. This means that the accounts are available for requesting by the users of the organization. The Available Accounts tab shows the accounts provisioned to users in the organization.

### 17.3.7 Viewing Provisioned Accounts

The Provisioned Accounts tab displays the accounts that have been provisioned to the open organization.

In the Provisioned Accounts tab, you can perform the following:

- [Provisioning a Resource](#)
- [Revoking a Resource](#)
- [Viewing the Details of a Provisioned Resource](#)
- [Disabling a Provisioned Resource](#)
- [Enabling a Provisioned Resource](#)
- [Viewing Resource History](#)

#### 17.3.7.1 Provisioning a Resource

To provision a resource to an organization:

1. In the Provisioned Accounts tab, select the account that you want to provision.
2. From the Actions menu, select **Provision**. Alternatively, you can create **Provision** on the toolbar.

The Provision Resource to Organization page is displayed in a new window.

3. On the Step 1: Select a Resource page, select a resource from the list, and then click **Continue**.
4. On the Step 2: Verify Resource Selection page, click **Continue**.
5. On the Step 5: Provide Process Data page, enter the details of the account that you want to provision to the organization, and then click **Continue**.
6. On the Step 6: Verify Process Data page, verify the data that you have provided, and then click **Continue**. The "Provisioning has been initiated" message is displayed.

#### 17.3.7.2 Revoking a Resource

To revoke a resource from an organization:

1. In the Provisioned Accounts tab, select the account that you want to revoke.
2. From the Actions menu, select **Revoke**. Alternatively, you can click **Revoke** on the toolbar.

A message is displayed asking for confirmation.

3. Click **Yes**.

### 17.3.7.3 Viewing the Details of a Provisioned Resource

To view the details of a provisioned resource:

1. In the Provisioned Accounts tab, select the account you want to open.
2. From the Actions menu, select **Open**. Alternatively, you can click **Open** on the toolbar.

The details of the account is displayed in a new page.

### 17.3.7.4 Disabling a Provisioned Resource

To disable a provisioned resource:

1. In the Provisioned Accounts tab, select the account you want to disable.
2. From the Actions menu, select **Disable**. Alternatively, you can click **Disable** on the toolbar.

A message is displayed stating that the provisioned account has been successfully disabled.

### 17.3.7.5 Enabling a Provisioned Resource

To enable a resource provisioned to the organization:

1. In the Provisioned Accounts tab, select the resource you want to enable.
2. From the Actions menu, select **Enable**. Alternatively, you can click **Enable** on the toolbar.

A message is displayed stating that the provisioned account has been successfully enabled.

### 17.3.7.6 Viewing Resource History

In the Provisioned Accounts tab of the organization details page, you can view the action history of a provisioned resource.

To view resource history:

1. In the Provisioned Accounts tab, select the resource for which you want to view the resource history.
2. From the Actions menu, select Resource History. Alternatively, click Resource History on the toolbar.

The Resource History is displayed in a new window with the details of the provisioning tasks for the selected resource. It shows the task name, task status, date assigned, and the user to whom the resource is assigned to.

3. (Optional) To add a task to the resource history, click Add Task, select the radio button corresponding to the task name you want to add, and click **Add**.

### 17.3.8 Viewing Available Entitlements

You can view the entitlements published to the open organization by clicking the **Available Entitlements** tab.

For each entitlement, the following information is displayed:

- Entitlements name
- Resource associated with the entitlement
- Account name associated with the entitlement
- Organization name

## 17.4 Creating a User Member

You can create a user for the organization using the Create User option available on the organization details page. The organization name is pre-filled in read only format on this create user page. The password policy of this organization is applicable when creating user and not the default password policy.

To create user:

1. In the organization details page, click **Create User** on the toolbar. Create user page is displayed.
2. Enter the required details. For description of the different fields see, "[Creating a User](#)" on page 15-4.
3. Click **Submit**.

## 17.5 Creating a Suborganization

To create a suborganization of the open organization:

1. In the organization details page, click **Create Sub-org** on the toolbar. The Create Organization page is displayed. The open organization name is populated by default as the parent organization name.
2. Enter the organization attribute values, as described in "[Creating an Organization](#)" on page 17-3.
3. From the Enforce password policy on reassignment list, select a value to specify whether or not to enforce password policy on reassignment, or to inherit the password policy of the parent organization.
4. Click **Save**.

## 17.6 Disabling and Enabling Organizations

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**Note:** You cannot disable organizations with child organizations or users. You can force disable it only by setting the value of the `ORG.DisableDeleteActionEnabled` system property to `true`. After you set this property, the users and suborganizations will be disabled while disabling the parent organization.

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To disable an organization with enabled state:

1. In the search result for organizations in the Search Organization page, select the organization that you want to disable.
2. From the Actions menu, select **Disable**. Alternatively, click **Disable** on the toolbar, or open the organization details page and click **Disable**.

A message is displayed asking for confirmation.

3. Click **Disable** to confirm.

To enable an organization with disabled state:

1. In the search result for organizations in the Search Organization page, select the organization that you want to enable.
2. From the Actions menu, select **Enable**. Alternatively, click **Enable** on the toolbar, or open the organization details page and click **Enable**.

A message is displayed asking for confirmation.

3. Click **Enable** to confirm.

## 17.7 Deleting an Organization

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**Note:**

- You cannot delete organizations with child orgs or users. You can force delete it only by setting the value of the `ORG.DisableDeleteActionEnabled` system property to `true`. Once you set the property, the users and sub orgs will be deleted while deleting the parent org.
  - You can delete an organization only if you have the "Delete" permission for that organization.
  - The deleted record would still exist in the database, marked deleted.
- 
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To delete an organization:

1. In the search result for organizations in the Organization page, select the organization that you want to delete.
2. From the Actions menu, select **Delete**. Alternatively, click **Delete** on the toolbar, or click **Delete** on top of the organization details page.

A message is displayed asking for confirmation.

3. Click **Delete** to confirm.





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## Managing Administration Roles

Oracle Identity Manager controls user's actions on Oracle Identity Manager objects. This is controlled by the authorization engine embedded in Oracle Identity Manager with the help of authorization policies. The purpose of authorization policies is to control user's access to Oracle Identity Manager application, which includes data, UI, and API. The authorization policies determine at runtime whether or not a particular action is allowed. Authorization policies can be defined that satisfy the authorization requirements within Oracle Identity Manager.

In Oracle Identity Manager, authorization policy management is centralized as an administrative feature. The Managing Admin Role feature of Oracle Identity Manager provides flexibility to create new admin roles and select the capabilities for the admin roles. You can select multiple capabilities from different entities. Oracle Identity Manager will hold the mapping of capabilities to admin roles. You can also define membership rule on user-assignment to admin roles.

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**Note:** Admin Roles should not be confused with roles, which are used to control user's access to external resources.

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System Administrator having capability to manage admin roles will be allowed to publish the admin roles. They would publish the admin roles to organization and then the users from those organizations or having the manage-admin-roles capability on those organizations would be able to manage the admin roles.

This chapter contains the following sections:

- [Admin Roles](#)
- [Overview of Admin Role Attributes](#)
- [Searching Admin Role](#)
- [Creating an Admin Role](#)
- [Viewing and Modifying Admin Role](#)
- [Deleting Admin Role](#)

### 18.1 Admin Roles

An Admin Role defines the actions, also known as functional capabilities, that can be performed and the scope of control (the scope of control refers to the set of organizations managed by the admin role).

Multiple admin roles can be assigned to a single administrator. This enables an administrator to have one set of capabilities in one scope of control, and a different set

of capabilities in another scope of control. For example, one admin role might grant the administrator the right to create and edit users for the controlled organizations specified in that admin role. A second admin role assigned to the same administrator, might grant only the change user passwords right in a separate set of controlled organizations as defined in that admin role.

Admin roles enable the reuse of capabilities and scope-of-control pairings. Admin roles also simplify the management of administrator privileges across a large number of users. Instead of directly assigning capabilities and controlled organizations to individual users, admin roles should be used to grant administrator privileges.

There are two predefined admin roles in Oracle Identity Manager:

- System Administrator, that is the Oracle Identity Manager System Administrator role with all privileges.
- Catalog System Administrator, that is the role with privileges to manage all catalog items.

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**Note:** Role catalog attributes can be edited from the Roles page only and requires additional privilege.

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## 18.2 Overview of Admin Role Attributes

This section included the following concepts:

- [Admin Role Capability](#)
- [Admin Role Scope of Control](#)
- [Admin Role Publication](#)

### 18.2.1 Admin Role Capability

Capabilities represent administrative functions with Oracle Identity Manager. Capabilities are collections of fine-grained actions. For example, the Create User capability consists of two actions - Create User and View/Search User.

Capabilities cannot be created and they cannot be assigned directly to users. Users are assigned capabilities using Admin Roles. Multiple capabilities can be assigned to an admin-role and capabilities can be selected from multiple entities. Capabilities will control on what a person is allowed to do or request for themselves and others.

**Tip:** See [Table B-1, "Authorization Functional Capabilities"](#) for list of default capabilities which can be used while creating Admin Roles.

Oracle Identity Manager supports an additional level of granularity while granting the ability to modify or view users and their profiles through Denied Attributes. Administrators can specify which attributes cannot be modified or seen as part of assigning the Modify User or View/Search User capability.

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**Note:** If an attribute is marked as denied for View/Search, it should also be marked as denied for the Modify User capability.

Mandatory attributes and System generated attributes like Status, Display name, User Login and so on cannot be included in denied attributes list.

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Users will not be allowed to perform any operation on behalf of home organization peers, such as, viewing user account or entitlements, request for roles or accounts and so on. Users need to be granted specific admin roles capabilities so that they can do any of the admin operations.

## 18.2.2 Admin Role Scope of Control

Oracle Identity Manager allows you to control which users are within an admin's scope of control. Using Scope of Control, administrator can specify organizations that the members of the admin role can manage.

## 18.2.3 Admin Role Publication

Oracle Identity Manager allows you to make the Admin Role available to organizations. Once the admin role has been published to these organizations, the organization administrators can grant them to other users. This helps in standardizing delegated administration and encourages reuse of admin roles.

## 18.3 Searching Admin Role

To search for Admin Role you can perform one of the following:

- [Basic Search](#)
- [Advanced Search](#)

### 18.3.1 Basic Search

To perform basic search:

1. Log in to Identity Self Service.
2. Click the **Manage** tab, click **Administration Roles** box. The Admin Roles page is displayed.
3. To perform basic search, select any one of the following search criteria from the **Search** drop-down and click **Search Admin Role** icon:
  - Display Name
  - Description
  - Name

It lists the Admin Roles that match the selected Search Criteria.

### 18.3.2 Advanced Search

To perform advanced search:

1. Log in to Identity Self Service.
2. Click the **Manage** tab, click **Administration Roles** box. The Admin Roles page is displayed.
3. Click **Advanced** link. Advance Admin Roles search page is displayed.
4. Select any one of the following **Match** options:
  - **All**: Search is performed with the AND condition. This means that the search operation is successful only when all the search criteria specified are matched.

- **Any:** Search is performed with the OR condition. This means that the search operation is successful when any search criterion specified is matched.
- 5. In the **Display Name** field, enter the display name search attribute that you want to search. To do so, select a search comparator. The default search comparator is Starts With. Equals, Ends with, Does not equal, Contains, and Does not contain comparators are available in the list as an alternative.
- 6. In the **Description** and **Name** field, enter the appropriate values and the comparators required.
- 7. To add a field in your search:
  - 1. Click **Add Fields**, and select a field, such as Description or Name.
  - 2. Enter value for the search attribute that you added.If you want to remove a field that you added in the search, then click the cross icon next to the field.
- 8. To reorder the search element list, click **Reorder**. A Reorder Search Fields tab opens. Select the search element that has to be reordered and rearrange it using the arrow keys. Click **OK**.

The order in which search elements are listed is modified accordingly.
- 9. Click **Search**. The results are displayed in the search results table.

## 18.4 Creating an Admin Role

To create an Admin Role:

1. In Identity Self Service, click the **Manage** tab, click **Administration Roles** box. The Admin Roles Search page is displayed.
2. From the **Actions** menu, select **Create**. Alternatively, click **Create** on the toolbar. The Create Admin Role page is displayed.
3. In the **Basic Information** tab, enter Name, Display Name, and Description details and click **Next**. The **Capabilities** tab is displayed.

Name is the only mandatory field and admin role name should have only alphabets and should not have numbers and space.
4. In the **Capabilities** tab, click **Add Capabilities**. Add Capabilities panel is displayed.

To add Capabilities:

- a. Search for Capabilities by using search criteria as Display Name, Description, or Entity Name and click the Search icon. The search operator can be combined with wildcard characters to specify a search condition. The percentage sign (%) character is used as a wildcard character.

Capabilities matching the search criteria are listed. The list has Name of capability, Description, and Attribute.

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**Note:** If the capability is a User Modify or View Search capability, then attribute column will show a link. To set an attribute as denied attribute, click this link. Attribute panel is displayed. From the list of attributes, select the attributes to be marked as denied attributes and click **OK**.

Mandatory attributes and System generated attributes like Status, Display name, User Login and so on cannot be included in denied attributes list.

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- b. From the list of Capabilities, select the required capability and click **Add Selected** or to add all the listed capabilities click **Add All**.
- c. If you want to deselect any capabilities from Selected Capabilities list click **Remove Selected** or **Remove All** options.
- d. Click **Select**. Assign Capabilities Panel lists the Capabilities selected in Add Capability.

Click **Next**. The Members tab is displayed.

5. In the Members tab, you can assign users (static assignment) and create membership rules (dynamically assignment).

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**Note:** For member assignment, scope of control is mandatory.

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To create membership rules:

- a. Click **Create Membership Rule** to open the User membership rules for role tab.
- b. In the Expression Builder tab, under Attributes tab, select an attribute, such as Country, and then click **Add**. The attribute is added to the expression builder for which you can specify a value. In addition, the Literals tab is displayed.
- c. In the Value field, enter a value for the selected attribute, such as US, and then click **Add**. The value is added to the expression builder. The expression for the membership rule specifies that users with Country as US will be members of the selected admin role.
- d. Click **Save**. The Members tab is displayed with the membership rule added in the User Membership Rule section.

Member Assignment tab displays the list of members matching the membership rule.

**Direct Members:** This section displays the members that are statically assigned to the open role.

**Rule Based Members:** This section displayed the members that are assigned to the open role via membership rules.

**All Members:** This section displays all the members, direct and rule based which are assigned to the open role.

- e. In case you want to evaluate the rule later, select **Evaluate Rule Later** check box. The rule can be evaluated later by running the *Refresh Admin-Role Memberships* scheduled task. If **Evaluate Rule Later** check box is not selected then, the rule is evaluated when the Admin Role is created.

To assign static users:

- a. Click **Assign**. The Assign Users search dialog box is displayed.
- b. Search for Users by using appropriate search criteria and click the Search icon. The search operator can be combined with wildcard characters to specify a search condition. The percentage sign (%) character is used as a wildcard character.

Users matching the search criteria are listed.

- c. From the list of users select the required user and click **Add Selected** or to add all the listed users click **Add All**.

If you want to deselect any capabilities from Selected users list click **Remove Selected** or **Remove All** options.

- d. Click **Select**. The Members tab is displayed with the assigned users in the Member Assignment section.

Click **Next**. The Scope of Control tab is displayed.

6. You can specify the organizations that this admin role can manage.

To do so, click **Add Organizations**. Add Organization tab is displayed.

- a. Search for Organizations by using search criteria as Organization Name, Type, Organizations Status, or Parent Organization Name and click the Search icon.

The search operator can be combined with wildcard characters to specify a search condition. The percentage sign (%) character is used as a wildcard character. Organizations matching the search criteria are listed.

- b. From the list of Organizations, select the required organization and click **Add Selected** or to add all the listed organizations click **Add All**.

If you want to deselect any organization from Selected Organization list click **Remove Selected** or **Remove All** options.

- c. Click **Select**. The Scope of Control tab is displayed with the organizations in the Scope of Control section.

Click **Next**. The Organizations tab is displayed.

7. You can publish the admin role to one or more organizations.

To do so, click **Add Organizations**. Add Organization tab is displayed.

- a. Search for Organizations by using search criteria as Organization Name, Type, Organizations Status, or Parent Organization Name and click the Search icon.

The search operator can be combined with wildcard characters to specify a search condition. The percentage sign (%) character is used as a wildcard character. Organizations matching the search criteria are listed.

- b. From the list of Organizations, select the required organization and click **Add Selected** or to add all the listed organizations click **Add All**.

If you want to deselect any organization from Selected Organization list click **Remove Selected** or **Remove All** options.

- c. Click **Select**. The Organizations tab is displayed with the organizations in the Organizations section.

Click **Next**. The Summary tab is displayed.

8. Summary tab lists all the information entered in the previous steps. Click **Finish**. This creates the new Admin Role.

## 18.5 Viewing and Modifying Admin Role

You can open the details of an admin role and edit the basic information, the capabilities, the members, the scope of control, and, the organizations.

To open the details of a role and modify it, perform one of the following:

1. In the Search Admin Roles page, search and select the admin role that you want to edit. From the Actions menu, select **Open**. Alternatively, click Open on the toolbar.
2. In the search results table of the Search Admin Roles page, click the Open Admin Role icon beside admin role name.

The details of the Admin role is displayed in a new page. Modify Admin role information in the following tabs of this page:

- **Basic Information**

The Basic Information tab displays the Admin role attributes. Except for the Admin Role Name field (which is a read-only field), the rest of the fields in this tab are same as available in the Create Admin Role page. Other fields that can be modified in this tab are Display Name and Description.

To modify the Admin role attributes, change the values in the fields, and click **Apply**.

- **Capabilities**

The Capabilities tab displays the Capabilities the Admin role is assigned. You can add new capabilities or remove capabilities from the existing list.

To add new Capabilities, click **Add**. Add Capabilities page is displayed. For adding capabilities refer to steps in [Section 18.4, "Creating an Admin Role"](#).

To remove an existing Capability, select the capability in the list and click **Remove**. Click **Apply**.

- **Members**

The Members tab displays the User Membership Rules and Member assignment for the Admin role.

To edit Rule, click **Edit Rule**. For steps refer to [Section 18.4, "Creating an Admin Role"](#).

To delete rule, click **Delete Rule**.

To add new Users, click **Assign**. For steps refer to [Section 18.4, "Creating an Admin Role"](#).

Click **Apply**.

- **Scope of Control**

The Scope of Control tab allows you to specify the organizations that this admin role can manage.

To assign more Organization, click **Assign**. For steps refer to [Section 18.4, "Creating an Admin Role"](#).

To remove an organization from the list, select the organization and click **Revoke**. Click **Apply**.

- **Organizations**

The Organization tab allows you to publish the admin role to one or more organizations.

To assign more Organization, click **Assign**. For steps refer to [Section 18.4, "Creating an Admin Role"](#).

To remove an organization from the list, select the organization and click **Revoke**. Click **Apply**.

## 18.6 Deleting Admin Role

To delete an Admin Role:

1. In the Search Admin Roles page, search and select the admin role that you want to Delete.
2. From the **Actions** menu, select **Delete**. Alternatively, click **Delete** on the toolbar. A warning message is displayed to confirm deletion of the Admin Role. Click **Delete**.

## 18.7 Controlling End User Actions

Admin Roles are used to control the actions that a user can perform on other users and objects. To control the actions that an end-user can perform on themselves, administrators need to configure Self Service Capabilities.

For more information on Self Service Capabilities, see "Managing Self Service Capability Policy" in *Oracle Fusion Middleware Administering Oracle Identity Manager*.



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## Managing Password Policies

Organization administrators can associate a password policy to an organization. The organization administrators can select a relevant password policy from the password policies created by system administrators. A password policy set for an organization is applicable for that organization and all its suborganizations. If the suborganization-level administrator sets a different password policy for that organization, then the parent organization password policy is overridden by the new one, and is applicable to all suborganizations under this organization. If a user is a member of multiple organizations, then the user's password policy depends on the home organization and the home organization hierarchy.

In addition, password policy priority determines which password policy is applicable for a user if the user is a member of multiple organizations. If the organizations are in hierarchy, then the password policy of the organization that is closest to the user is applicable even if the password policy associated with the parent organization has higher priority.

During user creation, Oracle Identity Manager validates the password provided manually or autogenerated against the default password policy which is attached to the Top organization. When a user logs in for the first time and changes the password, the password policy with the highest priority that is applicable to the user's organization is applied.

This chapter describes password policy management in the following sections:

- [Searching Password Policies](#)
- [Creating a Password Policy](#)
- [Setting Password Policy Rules](#)
- [Evaluating Password Policies](#)
- [Setting Challenge Options](#)
- [Deleting a Password Policy](#)
- [Associating Password Policies with Organization](#)

### 19.1 Searching Password Policies

To search for Password Policies you can perform one of the following:

- [Basic Search](#)

- [Advanced Search](#)

### 19.1.1 Basic Search

To search for password policies:

1. Login to Identity Self Service.
2. Click **Manager**. Place your mouse pointer on the **Policies** box, and click **Password Policies**. The Password Policy page is displayed.
3. In the Policy Name field, enter the policy name you want to search.
4. Click **Search**. The password policies that match search condition **Policy Name** is displayed.

### 19.1.2 Advanced Search

To perform advanced search:

1. Log in to Identity Self Service.
2. Click **Manager**. Place your mouse pointer on the **Policies** box, and click **Password Policies**. The Password Policy page is displayed.
3. Click **Advance** link. Advance Password Policies search page is displayed.
4. Select a search comparator. The default search comparator is Starts With. Other options are Equals, Ends with, Does not equal, and Contains.

You can use wildcard characters to specify the Password Policy name.

5. To add a field to your search:
  1. Click **Add Fields**, and select Policy Name.
  2. Enter value for the search attribute that you added.

This option is useful to create complex conditions such as Policy Name starts with *Test* and Policy Name ends with *User*. In this case two fields have to be included.

If you want to remove a field that you added in the search, then click the cross icon next to the field.

6. To reorder the search element list, click **Reorder**. A Reorder Search Fields tab opens. Select the search element that has to be reordered and rearrange it using the arrow keys. Click **OK**.

The order in which search elements are listed is modified accordingly.

7. Click **Search**. The results are displayed in the search results table.

## 19.2 Creating a Password Policy

By creating password policies, you can:

- Set password restrictions, for example, define the minimum and maximum length of passwords
- Set challenge question restrictions
- See rules that are associated with a password policy

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**Note:** In an environment in which LDAP synchronization is enabled, you must ensure one of the following:

- Password policies set on Oracle Identity Manager must be more restrictive than password policies set on the LDAP server.
  - Password policies set on Oracle Identity Manager must match the password policies set on the LDAP server.
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To create a password policy:

1. In the Password Policy page, from the Actions menu, select **Create**. Alternatively, click **Create** on the toolbar.
2. In the Policy Name field, enter the name of the password policy.
3. In the Description field, enter a short description of the password policy.
4. In the Policy Rules tab, specify value to set the rules for the password policy. For a description of each field in the Policy Rules tab, see "[Setting Password Policy Rules](#)" on page 19-3.

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**Note:** You can leave the fields blank in the Policy Rules tab, and click **Apply** to save the password policy. You can later open the password policy and set the policy rules by following the instructions in "[Setting Password Policy Rules](#)" on page 19-3.

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5. In the Challenge Options section, select **Enable Challenge Policy Support** to enable configuring challenge policy options. For a description of each field in the Challenge Options section, see "[Setting Challenge Options](#)" on page 19-10.
6. Click **Apply**.

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**Note:** A password policy is not applied during the creation of an Oracle Identity Manager user through trusted source reconciliation.

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## 19.3 Setting Password Policy Rules

Setting password policy rules involves specifying criteria for your password policy, for example, the minimum and maximum length of passwords.

You can use either or both of the following methods to set password restrictions:

- Enter information in the appropriate fields, or select the required check boxes. For example, to indicate that a password must have a minimum length of four characters, enter **4** in the Minimum Length field.
- In the Password File field, enter the directory path and name of the password policy file (for example, c:\Xellerate\userlimits.txt). This file contains predefined words that you do not want to be used as passwords. The delimiter specified in the File Delimiter field separates these words. The predefined words in the file cannot be used as passwords. For example, if the file contains the word welcome, then welcome, Welcome, and welcome123 are invalid passwords.

To set the rules for a password policy:

1. In the Password Policy page, search and select the password policy that you want to open.
2. From the Actions menu, select **Open**. Alternatively, click **Open** on the toolbar. The password policy details page is displayed.

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**Note:** You can also set the password policy rules at the time of creating the password policy.

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3. In the Policy Rules tab, enter values in the fields, as listed in [Table 19–1](#):

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**Note:** If a data field of the policy is empty, a password conforming to this policy does not have to meet the criteria of that field for the password to be valid. For example, when the Minimum Numeric Characters field is blank, Oracle Identity Manager will accept a password, regardless of the number of characters included in it.

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**Table 19–1 Fields in the Policy Rules Section**

Field Name	Description
Minimum Length	<p>The minimum number of characters that a password must contain for the password to be valid.</p> <p>For example, if you enter <b>4</b> in the Minimum Length field, then the password must contain at least four characters.</p> <p>This field accepts values from 0 to 999.</p>
Minimum Password Age (Days)	<p>The minimum duration in days for which users can use a password.</p> <p>For example, if you enter <b>2</b> in the Minimum Password Age (Days) field, then the user cannot change the password before 2 days of creating the password.</p> <p>The value of this field must be less than the value of the Expires After (Days) field. For example, if you enter 30 in the Expires After (Days) field and 31 in the Minimum Password Age (Days) field, then an error is displayed.</p>
Warn After (Days)	<p>The number of days that must pass before a user is notified that the user's password will expire on a designated date.</p> <p>For example, you enter <b>30</b> in the Expires After (Days) field, and <b>20</b> in the Warn After (Days) field, and the password is created on November 1. On November 21, the user will be informed that the password will expire on December 1.</p> <p>This field accepts values from 0 to 999.</p>
Disallow Past Passwords	<p>The frequency at which old passwords can be reused. This policy ensures that users do not change back and forth among a set of common passwords.</p> <p>For example, if you enter <b>10</b> in the Disallow Past Passwords field, then users are allowed to reuse a password only after using 10 unique passwords.</p> <p>This field accepts values from 0 to 24.</p>

**Table 19–1 (Cont.) Fields in the Policy Rules Section**

Field Name	Description
Expires After (Days)	<p>The maximum duration in days for which users can use a password.</p> <p>For example, if you enter <b>30</b> in the Expires After Days field, then users must change their passwords by the thirtieth day from when it was created or last modified.</p> <p>This field accepts values from 0 to 999.</p> <p><b>Note:</b> After the number of days specified in the Expires After Days field passes, a message is displayed asking the user to change the password.</p>

4. You can configure either a default complex password policy or a custom password policy. If you select the **Complex Password** option, then you cannot use the Custom Policy option setup, and passwords will be evaluated against the complex password criteria.

- **Complex Password:** Selecting this option sets the following complex password criteria:
  - The password is at least six characters long.
  - The password contains characters from at least three of the following five categories:
    - English Uppercase Characters (A - Z)
    - English Lowercase Characters (a - z)
    - Base 10 digits (0 - 9)
    - Non-alphanumeric characters (for example: !, \$, #, or ^)
    - Unicode characters
  - The password does not contain any of User ID, first name, or last name when their length is larger than 2.

The names are parsed for delimiters: commas, periods, dashes or hyphens, underscores, spaces, pound signs, and tabs. If any of these delimiters are found, then the names are split and all sections are verified not to be included in the password. For example, if the user name is john-d, then d will not be checked in the password because its length is less than 2. Similarly, if the name is John Richard Doe, then the password cannot contain john, richard, or doe.

When checking against the user's full name, characters such as commas, periods, dashes or hyphens, underscores, spaces, pound signs, and tabs are treated as delimiters that separate the name into individual character sets. Each character set that has three or more characters is searched in the password. If the character set is present in the password, the password change is rejected. For example, the name John Richard-Doe is split into three character sets: John, Richard, and Doe. This user cannot have a password that consists of three continuous characters from either John or Richard or Doe anywhere in the password. However, the password can contain the substring d-D because the hyphen (-) is treated as the delimiter between the substrings Richard and Doe. In addition, the search for character sets in the password is not case-sensitive.

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**Note:** If the user's full name is less than three characters in length, the password is not checked against it because the rate at which passwords will be rejected is too high.

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- **Custom Policy:** If you select the **Custom Policy** option, you can set a custom password policy by using the fields listed in [Table 19–2](#).

**Table 19–2 Fields in Custom Policy Section**

Field Name	Description
Maximum Length	The maximum number of characters that a password can contain. For example, if you enter <b>8</b> in the Maximum Length field, then a password is not accepted if it has more than eight characters. This field accepts values from 1 to 999.
Maximum Repeated Characters	The maximum number of times a character can be repeated in a password. For example, if you enter <b>2</b> in the Maximum Repeated Characters field, then a password is not accepted if any character is repeated more than two times. For example, RL112211 would not be a valid password because the character 1 is repeated three times. <b>Note:</b> In this example, there are four occurrences of the character 1, which means that it is repeated three times. This field accepts values from 1 to 999.
Minimum Numeric Characters	The minimum number of digits that a password must contain. For example, if you enter <b>1</b> in the Minimum Numeric Characters field, then a password must contain at least one digit. This field accepts values from 0 to 999.
Minimum Alphanumeric Characters	The minimum number of letters or digits that a password must contain. For example, if you enter <b>6</b> in the Minimum Alphanumeric Characters field, then a password must contain at least six letters or numbers. This field accepts values from 0 to 999.
Minimum Unique Characters	The minimum number of nonrepeating characters that a password must contain. For example, if you enter <b>1</b> in the Minimum Unique Characters field, then a password is accepted if at least one character in the password is not repeated. For example, 1a23321 would be a valid password because the character a in the password is not repeated although the remaining characters are repeated. This field accepts values from 0 to 999.
Minimum Alphabet Characters	The minimum number of letters that a password must contain. For example, if you enter <b>2</b> in the Minimum Alphabet Characters field, then the password is not accepted if it has less than two letters. This field accepts values from 0 to 999.
Minimum Uppercase Characters	The minimum number of uppercase letters that a password must contain. For example, if you enter <b>8</b> in the Uppercase Characters: Minimum field, then a password is not accepted if it contains less than eight uppercase letters. This field accepts values from 0 to 999.

**Table 19–2 (Cont.) Fields in Custom Policy Section**

<b>Field Name</b>	<b>Description</b>
Minimum Lowercase Characters	<p>The minimum number of lowercase letters that a password must contain.</p> <p>For example, if you enter <b>8</b> in the Minimum Lowercase Characters field, then a password is not accepted if it has less than eight lowercase letters.</p> <p>This field accepts values from 0 to 999.</p>
Special Characters: Min	<p>The minimum number of special characters that a password must contain.</p> <p>For example, if you enter <b>2</b> in the Special Characters: Min field, then the password is not accepted if it has less than two special characters.</p> <p>The field accepts values from 0 to 999.</p>
Special Characters: Max	<p>The maximum number of special characters that a password can contain.</p> <p>For example, if you enter <b>5</b> in the Special Characters: Max field, then a password is not accepted if it has more than five special characters.</p> <p>This field accepts values from 1 to 999.</p>
Unicode Characters: Min	<p>The minimum number of Unicode characters that a password must contain.</p> <p>For example, if you enter <b>3</b> in the Unicode Characters: Minimum field, then the password is not accepted if it has less than three Unicode characters.</p> <p>This field accepts values from 0 to 999.</p>
Unicode Characters: Max	<p>The maximum number of Unicode characters that a password can contain.</p> <p>For example, if you enter <b>8</b> in the Unicode Characters: Maximum field, then a password is not accepted if it has more than eight Unicode characters.</p> <p>This field accepts values from 1 to 999.</p>
Password File	<p>The path and name of a file that contains predefined terms, which are not allowed as passwords. The file must be stored on the same host on which Oracle Identity Manager is deployed.</p> <p><b>Note:</b> The settings on the Policy Rules tab get precedence over the specifications in the password file. For example, a disallowed term of the password file is used in the policy when no disallowed term is specified in the Policy Rules tab.</p>
File Delimiter	<p>The delimiter character used to separate terms in the password file.</p> <p>For example, if a comma (,) is entered in the Password File Delimiter field, then the terms in the password file will be separated by commas.</p> <p><b>Note:</b> There are no escape characters defined to be used in password policies.</p>

**Table 19–2 (Cont.) Fields in Custom Policy Section**

<b>Field Name</b>	<b>Description</b>
Characters Required	<p>The characters that a password must contain.</p> <p>For example, if you enter x in the Characters Required field, then a password is accepted only if it contains the character x.</p> <p>The character you specify in the Characters Required field, must be mentioned in the Characters Allowed field. If you enter a character in the Characters Required field that is not mentioned in the Characters Allowed field, then an error is displayed stating that the required characters must be in the list of allowed characters, and required characters must not be in the list of not allowed characters.</p> <p>In addition, if you specify more than one character, then do not provide delimiters. Commas and white spaces are also considered as characters in this field. For example, if you specify characters such as a,x,c, then the password is not accepted unless it contains comma.</p> <p><b>Note:</b> Characters specified and case-sensitive.</p>
Characters Allowed	<p>The characters that a password can contain.</p> <p>For example, if you enter the percent sign (%) in the Characters Allowed field, then a password is accepted if it contains a percent sign, given that all other criteria are met.</p> <p><b>Note:</b> If any character is used in the password and that character is not in the Characters Allowed field, then the password will be rejected. For example, if the Characters Allowed field has "abc" and the password is "dad", then the password is rejected because "d" is not in the Characters Allowed field.</p> <p>If you specify the same character in the Characters Allowed and Characters Not Allowed fields, then an error message is returned when you create the password policy.</p> <p><b>Note:</b> Characters specified and case-sensitive.</p>
Characters Not Allowed	<p>The characters that a password must not contain.</p> <p>For example, if you enter an exclamation point (!) in the Characters Not Allowed field, then a password is not accepted if it contains an exclamation point.</p> <p><b>Note:</b> Characters specified and case-sensitive.</p>
Substrings Not Allowed	<p>A series of consecutive alphanumeric characters that a password must not contain.</p> <p>For example, if you enter <b>oracle</b> in the Substrings Not Allowed field, then a password is not accepted if it contains the letters o, r, a, c, l, and e, in successive order.</p>
Maximum Incorrect Login attempts counter	<p>The maximum number of incorrect login attempt is allowed for a user. After the maximum number of attempts is failed, user is locked. You can set if the user is locked permanently or for a time duration. When a value is entered in this field it enables <b>Permanent Lockout</b> and <b>Lock Duration</b>.</p>
Permanent Lockout	<p>If an user exceeds maximum incorrect login attempt, then the user can be permanently lockout. To enabled this select this check box. If this option is enabled then you will not be allowed to set Lock Duration time. Note: Only Admin can unlock the user if this option is enabled.</p>



**Table 19–2 (Cont.) Fields in Custom Policy Section**

Field Name	Description
Lock Duration	<p>If an user exceeds maximum incorrect login attempt, then the user can be locked for a certain period of time. The duration for which the user is locked is set in minutes. For example, if lock duration is set to 5 minutes, user will get unlocked after 5 minutes of the user being locked.</p> <p>If Permanent Lockout is enabled then this field is not applicable.</p>
Start with Alphabet	<p>Whether or not the password must begin with a letter.</p> <p>For example, if you select this option, then the password 123welcome is not accepted because the password does not begin with a letter. However, if you do not select this option, then the password can begin with a letter, numeric digit, or special character.</p>
Disallow First Name	<p>This check box specifies if the user's first name will be accepted as the whole password or as part of the password.</p> <p>When this check box is selected, a password will not be valid if the user's first name is entered in the Password field. In addition, the password is not valid if the first name is entered as a part of the password.</p> <p>If you deselect this check box, then the password will be accepted, even if it contains the user's first name.</p>
Disallow User ID	<p>This check box specifies if the user ID will be accepted as the whole password or as part of the password.</p> <p>When this check box is selected, a password will not be valid if the user ID is entered in the Password field. In addition, the password is not valid if the user ID occurs as a part of the password specified in the Password field.</p> <p>If you deselect this check box, the password will be accepted, even if it contains the user ID.</p>
Disallow Last Name	<p>This check box specifies if the user's last name will be accepted as the whole password or as part of the password.</p> <p>When this check box is selected, a password will not be valid if the user's last name is entered in the Password field. In addition, the password is not valid if the last name is entered as a part of the password.</p> <p>If you deselect this check box, then the password is accepted, even if it contains the user's last name.</p>

5. Click **Apply** to save the password policy.

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**Note:** After creating a password policy, you must associate the policy with an organization. The rules of the policy will be applied for the users of that organization and its suborganizations. For information see, "[Evaluating Password Policies](#)".

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## 19.4 Evaluating Password Policies

In Oracle Identity Manager, password policies are evaluated in the following scenarios:

- When users register themselves to Oracle Identity Manager to perform certain tasks in Identity Self Service or Oracle Identity System Administration.
- When users reset their password using the Forgot Password? link.

- When users change their enterprise password or target system account password from the Change Password section of the My Information page.
- When an administrator sets or changes the password of a user manually.

The following is the order in which a user's effective password policy is evaluated:

1. The password policy (if available) set for the user's home organization is applicable for the user.
2. If no password policy is set for the user's home organization, then the policy of the organization at the next level in the organization hierarchy of the user's home organization is picked. This procedure of identifying an organization at the next level in the hierarchy of the user's home organization continues until an organization associated with a password policy is determined. This password policy is applicable to the user.
3. If none of the organizations in the hierarchy has password policies set, then the password policy attached to the Top organization is applicable. If no password policy is attached to the Top organization, then the default password policy of the XellerateUsers resource is applicable.

## 19.5 Setting Challenge Options

To set the Challenge question options for a password policy:

1. In the Password Policy page, search and select the password policy that you want to open.
2. From the Actions menu, select **Open**. Alternatively, click **Open** on the toolbar. The password policy details page is displayed.

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**Note:** You can also set the Challenge option at the time of creating the password policy.

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3. In the Challenge Options section, if **Enable Challenge Policy support** is enabled then the fields listed in [Table 19-3](#) can be configured:

**Table 19-3** *Fields in the Challenge Option Section*

Field Name	Description
Allowed Challenges	This field allows you to select which set of challenge question is shown to the user. The options are: User Defined, Admin Defined, or User or Admin Defined.  If User Defined is selected, then the challenge questions is set by the user.  If Admin Defined is selected, then the challenge questions is selected from the list provided by the admin.  If User or Admin Defined is selected, then the combination of questions is admin defined and user customized.
Total Questions To Be Collected	This determines the total number of challenge questions a user needs to provide at login.
Minimum Correct Answers When Challenged	The minimum number of correct answers the user needs to provide when he is asked the challenge questions.
Allow Duplicate Responses	This allows you to select if duplicate responses are allowed or not.

**Table 19-3 (Cont.) Fields in the Challenge Option Section**

Field Name	Description
Minimum Answer Length	The minimum length of answer for the challenge questions.
Lock User After Attempts	The number of attempts before the user is locked if he provided wrong answers to the challenge questions.

- When Allowed Challenges is set to Admin Defined or User or Admin Defined, challenge questions have to be added. The number of challenge question is determined by **Total Questions To Be Collected** field.

To add questions:

- Under Challenge Questions section, click **Add**.
- Enter the challenge question in the Questions table. To include more questions, click **Add**.
- To delete a question, select the question and click **Delete**.

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**Note:** If you have customized the challenge questions, then modify the `customResources_<XX>.properties` file under the `IDM_HOME/server/customResources/` directory to add your local messages. Here, `XX` can be `ar`, `da`, `de`, `es`, `fr`, and so on.

This entry will need to be added directly beneath the line,

```
#global.<lookup_code>.<encode_data>=<unicoded_decodedata_string> in the
```

`customResources_<XX>.properties` file with `~` to replace the blank spaces prior to the `=`.

For example:

```
#global.<lookup_code>.<encode_data>=<unicoded_decodedata_string>
global.Lookup.WebClient.Questions.Who-was-your-childhood-hero?=Qui
\u00E9tait
votre h\u00E9ros d'\enfance?
```

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- Click **Apply** to save the password policy changes.

## 19.6 Deleting a Password Policy

To delete a password policy:

- In the Password Policy page, search and select a password policy that you want to delete.
- From the Actions menu, select **Delete**. Alternatively, click **Delete** on the toolbar. A message is displayed asking for confirmation.
- Click **Yes** to confirm the deletion.

## 19.7 Associating Password Policies with Organization

To associate the password policy with an organization and use the password policy to manage the passwords of Oracle Identity Manager users, see [Creating an Organization](#).

To associate the password policy with a resource, see "Configuring Password Policies for Application Instances" in *Oracle Fusion Middleware Administering Oracle Identity Manager*.

# Part V

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## Reporting

This part describes how to run Oracle Identity Manager Reports.

It contains the following chapter:

- [Chapter 20, "Running Reports"](#)



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## Running Reports

You can use the reporting feature of Oracle Identity Manager to create various types of reports in multiple formats. For detailed information about Oracle Identity Manager Reports, see "Using Reporting Features" in *Oracle Fusion Middleware Administering Oracle Identity Manager*.

This chapter describes how to run reports in Oracle Identity Manager. It contains the following sections:

- [Running Oracle Identity Manager Reports](#)
- [Running Policy Violation Reports](#)

### 20.1 Running Oracle Identity Manager Reports

To run a report:

1. Start Oracle Identity Manager Reports. See "Starting Oracle Identity Manager Reports" in *Oracle Fusion Middleware Administering Oracle Identity Manager* for information about starting Oracle Identity Manager Reports.
2. Login to BI Publisher by using your Oracle Identity Manager system administrator credentials by navigating to the following URL:

`http://HOST_NAME:PORT/xmlpserver`

The default port for BI Publisher server is 9704.

3. Expand **Shared Folders**.
4. Expand **Oracle Identity Manager Reports** to display the reports classified according to their functional areas.
5. To view a report:
  - a. In the left menu, select the report functional area, for example, Access Policy Reports.
  - b. On the right side page, under the desired report, for example Access Policy Details, click **Open**.

The Report Input Parameters page is displayed. This page displays the input parameters that must be provided to run a report. The report input parameters act as a filter criterion.

In some cases, at least one or more parameter fields are required fields. Some reports do not require any input parameter. If this is not the case, then you must populate at least one of the fields to run a report.

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**Note:** If you leave the input parameter field blank, and then click **Apply**, then all the information associated with the report is displayed.

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6. Enter the information required to identify what information the report contains.
7. Click **Apply** to run the report.  
The report is displayed.

## 20.2 Running Policy Violation Reports

For information about running identity audit policy violation reports, see "[Generating Identity Audit Policy Violation Reports](#)" on page 14-26.



# Part VI

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## Appendix

Part I contains the following chapters:

- [Appendix A, "Personalizing Self Service"](#)
- [Appendix B, "Functional Capabilities"](#)



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## Personalizing Self Service

This chapter describes the personalization features of the Oracle Identity Self Service. It contains the following sections:

- [Performing Search in Self Service](#)
- [Adding and Removing Attributes in Advanced Search Criteria](#)
- [Personalizing the Search Result](#)
- [Using Saved Search](#)
- [Sorting Data in Search Results](#)
- [Using Query By Example](#)

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**Note:** Personalization of the Self Service is allowed for all users, and is applicable on a per user basis. In other words, the personalization that is saved for a user, is not applicable when another user logs in to Identity Self Service.

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### A.1 Performing Search in Self Service

Identity Self Service allows you to search for records in various pages, such as the Users page or the Roles page. There are two options available, Basic Search and Advanced Search. To perform search, navigate to a page in Self Service with search option, such as the Users page or the Roles page.

For example, following two searches can be performed in the Roles page:

- [Basic Search](#)
- [Advanced Search](#)

#### A.1.1 Basic Search

To open the Roles page and perform search, do the following:

1. In Identity Self Service, click the **Manage** tab, click **Roles**. The Roles Search page is displayed.
2. From the **Search** list, select an attribute based on which you want to search the role. The attributes in the drop-down are:
  - Display Name
  - Name

- Role Category
  - Role Namespace
3. In the Search box, enter a value for the selected attribute, and click the Search icon. The search result is displayed.  
  
If you do not specify any value, all the default roles are listed. The asterisk (\*) character is used as a wildcard character.

## A.1.2 Advanced Search

To perform advanced search:

1. In Identity Self Service, click the **Manage** tab, click **Roles**. The Roles Search page is displayed.
2. Click **Advance** link. Advance Roles search page is displayed.
3. Select any one of the **Match** options:
  - **All:** On selecting this option, the search is performed with the AND condition. This means that the search operation is successful only when all the search criteria specified are matched.
  - **Any:** On selecting this option, the search is performed with the OR condition. This means that the search operation is successful when any search criterion specified is matched.
4. In the searchable user attribute fields, such as Display Name, specify a value. You can include wildcard characters (\*) in the attribute value.

For some attributes, select the attribute value from the lookup. For example, to search all roles in the Default role category, select Default in the Role Category field.

5. For each attribute value that you specify, select a search operator from the list. The following search operators are available:
  - Starts with
  - Ends with
  - Equals
  - Does not equal
  - Contains
  - Does not contain

The search operator can be combined with wildcard characters to specify a search condition. The asterisk (\*) character is used as a wildcard character. For example, you can specify the value of the Display Name attribute to be Jo\* as the search criteria, and select Equals as the search operator. The roles with Display Name that begins with Jo are displayed.

6. To add a searchable role attribute to the Search Roles page, click **Add Fields**, and select the attribute from the list of attributes.

For example, if you want to search all roles in a role namespace, then you can add the Role Namespace attribute as a searchable field and specify a search condition.

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**Note:** You can configure the attributes that are searchable. The attributes available for search must be a subset of the attributes defined for the role entity that are marked with the Searchable = Yes property.

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7. Optionally click **Reset** to reset the values that you specified as search conditions. Typically, you perform this step to remove the specified search conditions and specify a new search condition.
8. Click **Search**. The search results is displayed in a tabular format, as shown in Figure:
9. If you want to hide columns in the search results table, then perform the following steps:
  - a. Click **View** on the toolbar, select **Columns, Manage Columns**. The Manage Columns dialog box is displayed.
  - b. From the **Visible Columns** list, select the columns that you want to hide.
  - c. You can view the details of the role click the left arrow icon to add the columns in the **Hidden Columns** list.
  - d. Click **OK**. The selected columns are not displayed in the search results. A status message displays along the bottom of the search table to identify how many columns are currently hidden. Figure shows that two columns are hidden.

## A.2 Adding and Removing Attributes in Advanced Search Criteria

Identity Self Service allows you to perform advanced search for records in various pages, such as the Users page or the Roles page. Default attributes are available in the advance search pages based on which you can perform the search. In addition to the default search attributes, you can add search attributes based on which you can perform the search.

To add attributes to advanced search criteria:

1. Navigate to a page in Identity Self Service with advanced search option, such as the Users page or the Roles page. Click **Advance**.
2. Click **Add Fields**. The list of attributes that you can add to the search criteria is displayed.
3. Select an attribute from the list, for example, Role Description. The selected attribute is added to the Search section.

Note that a cross icon is displayed with the attribute that you added in the Search section. To remove the attribute from the search criteria, click the cross icon.

## A.3 Personalizing the Search Result

You can personalize the search result to display or hide search attributes that are displayed as columns in the search results table. You can also change the order in which the columns are displayed in the search results table.

To personalize the search result:

1. To show or hide columns in the search results table:

- a. On the toolbar of the search results page, click **View**, and then select **Columns**. A list of column names for the search results table are displayed. The column names that are already displayed in the search results table have a check mark.
  - b. Select or deselect column names to show or hide respectively in the search results table.  
  
Alternatively, select **Manage Columns** to display the Manage Columns dialog box. In this dialog box, you can move the column names in the **Hidden Columns** and **Visible Columns** lists to show or hide the columns respectively. When finished, click **OK**.
2. To change the order or the columns in the search results table:
    - a. On the toolbar of the search results page, click **View**, and then select **Reorder Columns**. The Reorder Columns dialog box is displayed.  
  
Alternatively, click **View** and select the columns. Then, select **Manage Columns** to display the Manage Columns dialog box.
    - b. In the **Visible Columns** list, move the column names up or down by using the arrow keys to the right of the list. The columns will be displayed in the order that you specify here.
    - c. Click **OK**.
  3. To detach the search result table from the page, from the **View** menu, select **Detach**. Alternatively, click **Detach** on the toolbar.  
  
To close the detached search result, click the cross icon at the top right corner or click **Detach** on the toolbar.
  4. To browse through the search result pages, use the navigation panel at the bottom of the search result table.  
  
To jump to a particular page, enter the page number in the **Page** box and press enter. Alternatively you can use the navigational arrows to move to the First page, Previous page, or Next page.

## A.4 Using Saved Search

To search for entities, such as users or roles, you specify a search criteria. The search criteria includes search attributes that you have added and other search conditions. Instead of specifying the search criteria every time you search for similar records, you can save a search and use the saved search to search for the records.

This section contains the following topics:

- [Creating a Saved Search](#)
- [Personalizing Saved Search](#)
- [Deleting a Saved Search](#)
- [Using Saved Search to Perform a Search Operation](#)

### A.4.1 Creating a Saved Search

To save a search:

1. Perform a search by specifying search criteria.
2. Click **Save**. The Create Saved Search dialog box is displayed.

3. In the Name field, enter a name for the search.
  4. Select one or more of the following options:
    - **Set as Default:** Selecting this option sets the saved search as the default search for the page whenever the search page is opened.
    - **Run Automatically:** Selecting this option runs the saved search when you open the page.
  5. Click **OK**. The search is saved with the name you specified.
- The saved search name is displayed in the Saved Search list on the top right of the Search section. You can select the saved search to perform the search.

## A.4.2 Personalizing Saved Search

To personalize saved search:

1. From the Save Search list, select **Personalize**. The Personalize Saved Searches dialog box is displayed.
2. From the Personalize Saved Searches list, select the saved search that you want to personalize.
3. In the Name field, edit the name of the saved search.
4. Select any one or more of the following options:
  - **Set as Default:** Selecting this option sets the saved search as the default search for the page whenever the search page is opened.
  - **Run Automatically:** Selecting this option runs the saved search when you open the page.
  - **Show in Search List:** Selecting this option displays the saved search in the Saved Search list.
5. Click **Apply**, and then click **OK**.

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**Note:** The default saved searches are view-only and cannot be used for personalization (modification or deletion).

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## A.4.3 Deleting a Saved Search

To delete a saved search:

1. From the Save Search list, select **Personalize**. The Personalize Saved Searches dialog box is displayed.
2. From the Personalize Saved Searches list, select the saved search that you want to delete.
3. Click **Delete**. A warning message is displayed.
4. Click **Yes** to confirm deletion.
5. Click **OK** to close the Personalize Saved Searches dialog box.

## A.4.4 Using Saved Search to Perform a Search Operation

If you select the **Set as Default** option when creating the saved search, then the saved search is displayed in the Saved Search list when you open the page. To search for records by using the default saved search, click **Search**.

If you select the **Run Automatically** option when creating the saved search, then the search operation based on the saved search is performed automatically when you open the page.

If you have not selected the **Set as Default** and **Run Automatically** options, then to perform the search by using the saved search, select the saved search from the Saved Search list.

## A.5 Sorting Data in Search Results

You can sort the data in the search results table in ascending or descending order. When you place the mouse pointer on the column names in the search results table, up and down arrow keys are displayed. Clicking the up arrow key sorts the data in ascending order, and clicking the down arrow key sorts the data in descending order.

The sort is restored as a preference in the Self Service. As a result, when you logout, and login again and perform a search, sorted data is displayed in the search result. The sort preference works only for the logged in user. For other users, the search results table is displayed with default settings.

## A.6 Using Query By Example

In many Self Service pages, data is displayed in a tabular format. Users can have hundreds of roles and resources, and thousands of entitlements provisioned to them. When you are looking at a large number of records, you need to scroll through multiple pages of results to find specific role, resources, and entitlements. By using the Query By Example feature, you can refine the search results by providing additional filters. Oracle Identity Manager allows you to turn this feature on and off based on your requirement.

When looking for a few records in a list of large number of records, you can use Query By Example to refine the search. To do so:

1. In the search results table, click **View** on the toolbar, and then select **Query By Example**. Text fields are displayed on top of each column of the search results table.
2. Enter a value in a text field for a column. For example, to refine the search for all users with Disabled status, enter Disabled on the text field above the Status column.

Instead of entering the complete value, you can enter a few letters that match the values you are searching, such as Di . Users with Disabled status are displayed. If you enter D as the value, then all users with Disabled or Deleted are displayed (because both the Disabled and Deleted status begin with the letter "D").

3. Press **Enter**. All records that match the Query By Example value are displayed, as shown in [Figure A-1](#):

**Figure A-1 Query By Example**

Direct Reports			
Actions ▾ View ▾		Refresh	Detach
		Di	
User Name	userLogin	Status	Organization
Richard Smith	RICHARD.SMITH@AE	Disabled	Org1
Jane Lee	JANE.LEE@ABC.COM	Disabled	Xellerate Users

4. To disable Query By Example, click **View**, and then select **Query By Example**.



Alternatively, click **Query By Example** on the search result toolbar.



# B

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## Functional Capabilities

This appendix provides the list of Admin Role capabilities in [Table B-1](#) and the list of Self capabilities in [Table B-2](#).

**Table B-1 Authorization Functional Capabilities**

Functional Type	Functional Capability	Description	Implied Capabilities
Admin Role	AdminRole - Create	Allows a User to create an Admin Role	Create Admin Role View or Search Admin Roles Assign Capabilities Assign Admin Role Members Set Organization Scope of Control Publish Admin Role to Organization
	AdminRole - Modify	Allows a User to modify an Admin Role	Modify Admin Role Attributes View or Search Admin Roles Assign Capabilities Assign or Unassign Admin Role Members Set Organization Scope of Control Publish Admin Role to Organization
	AdminRole - Delete	Allows a User to delete an Admin Role	Delete Admin Role View or Search Admin Roles
	AdminRole - View/Search	Allows a User to view and search for Admin Roles	View or Search Admin Roles View Capabilities View Admin Role Members View Organization Scope of Control View Organizations Published To
Role	Role - Create	Allows a User to create a Role	Create Role Assign Role Hierarchy Assign Access Policy Assign Role Members Publish Role to Organization

**Table B-1 (Cont.) Authorization Functional Capabilities**

Functional Type	Functional Capability	Description	Implied Capabilities
	Role - Modify	Allows a User to modify a Role	Modify Role Attributes Assign or Unassign Role Hierarchy Assign or Unassign Access Policy Assign or Unassign Role Members Publish Role to Organization
	Role - Delete	Allows a User to delete a Role	Delete Role View or Search Role
	Role - View / Search	Allows a User to view and search for Roles	View or Search Role View Role Hierarchy View Role Members View Role Access Policy View Organizations Published To
User	User - Create	Allows a User to create another User	Create User View or Search User
	User - Modify	Allows a User to modify another User  <b>Note:</b> After the Bundle Patch Release 11.1.2.3.180111 is applied, <i>Request, Remove, or Modify Roles</i> implied capability is not part of User-Modify capability. Two new functional capabilities, <i>Grant Role Memberships</i> and <i>Revoke Role Memberships</i> are introduced that will allow user to Remove and Revoke Roles for other users.	Modify User Attributes View or Search User Request, Remove, or Modify Accounts Request, Remove, or Modify Roles Request, Remove, or Modify Entitlements View Direct Reports View Organizations View AdminRoles
	User - Delete	Allows a User to delete another User	Delete User View or Search User
	User - Enable	Allows a User to enable another User	Enable User View or Search User
	User - Disable	Allows a User to disable another User	Disable User View or Search User
	User - Lock	Allows a User to lock an Oracle Identity Manager Account	Lock User View or Search User
	User - Unlock	Allows a User to unlock an Oracle Identity Manager Account	Unlock User View or Search User
	User - Change Password	Allows a User to change another User's password	Change User Password View or Search User

**Table B-1 (Cont.) Authorization Functional Capabilities**

<b>Functional Type</b>	<b>Functional Capability</b>	<b>Description</b>	<b>Implied Capabilities</b>
	User - View/Search	Allows a User to search for and view Users and their details	View or Search User View Roles View Accounts View Entitlements View Direct Reports View Member Organizations View Admin Roles
	User - View Requests	Allows a User to search for requests	View User Requests View or Search Users
	User - View Role	Allows a User to search for roles	View User Roles View or Search Roles
Relationships	Provision Accounts	Allows a User to provision Accounts, including start and end dates, on another User	Request Account View or Search User View or Search Accounts Modify Accounts
	Deprovision Accounts	Allows a User to deprovision Accounts on another User, including setting end dates	Remove Account View or Search User View or Search Accounts Modify Accounts
	Modify Provisioned Accounts	Allows a User to modify another User's provisioned Account, including start and end dates	Modify Accounts View or Search User View or Search Accounts
	Enable Provisioned Accounts	Allows a User to enable Account of another User	Enable Account View or Search User View or Search Accounts
	Disable Provisioned Accounts	Allows a User to disable Account of another User	Disable Account View or Search User View or Search Accounts
	Change Provisioned Account Password	Allows a User to change Account password for another User	Change Account Password View or Search User View or Search Accounts
	View Provisioned Accounts	Allows a User to see another User's provisioned Accounts	View or Search User View or Search Accounts
	Grant Account Entitlements	Allows a User to grant Entitlements, including start and end dates, for another User	Request Entitlement View or Search User View or Search Account View or Search Account Entitlement Modify Entitlement

**Table B-1 (Cont.) Authorization Functional Capabilities**

Functional Type	Functional Capability	Description	Implied Capabilities
	Modify Account Entitlements	Allows a User to modify Account Entitlements for another User	Modify Entitlement View or Search User View or Search Account View or Search Account Entitlement
	Revoke Account Entitlements	Allows a User to revoke Account Entitlements for another User, including setting end dates	Remove Entitlement View or Search User View or Search Account View or Search Account Entitlement Modify Entitlement
	View Account Entitlements	Allows a User to see another User's Entitlements	View or Search Account Entitlement View or Search User View or Search Account Entitlement
	Grant Role Memberships	Allows a User to grant Roles to another user <b>Note:</b> This capability is available after applying Bundle Patch Release 11.1.2.3.180111.	View or Search Roles Request Roles Modify Roles
	Revoke Role Memberships	Allows a User to revoke Roles for another User <b>Note:</b> This capability is available after applying Bundle Patch Release 11.1.2.3.180111.	View or Search Roles Remove Roles Modify Roles
Password Policy	Password Policy - Create	Allows a User to create a Password Policy	Create Password Policy View or Search Password Policy
	Password Policy - Modify	Allows a User to modify a Password Policy	Modify Password Policy View or Search Password Policy
	Password Policy - Delete	Allows a User to delete a Password Policy	Delete Password Policy View or Search Password Policy
	Password Policy - View/Search	Allows a User to view and search for Password Policies	View or Search Password Policy
Organization	Organization - Create	Allows a User to create an Organization	Create Organization View or Search Organization View or Search User View or Search Password Policy Create Sub-Organization

**Table B-1 (Cont.) Authorization Functional Capabilities**

<b>Functional Type</b>	<b>Functional Capability</b>	<b>Description</b>	<b>Implied Capabilities</b>
	Organization - Modify	Allows a User to modify an Organization	Modify Organization Attributes View or Search Organization Disable Organization View Organization Members Set User Membership Rule View Available Roles View Available Accounts View Available Entitlements Provision Accounts Assign or Unassign AdminRoles
	Organization - Delete	Allows a User to delete an Organization	Delete Organization View or Search Organization
	Organization - View / Search	Allows a User to view and search for Organizations	View or Search Organization View Child Organizations View Members View Available Roles View Admin Roles View Provisioned Accounts
	Organization - View Organization Members	Allows a User to see the members of an Organization	View Organization Members View or Search Organizations
	Organization - View Organization Published Entitlements	Allows a User to see the Entitlements published to an Organization	View Available Entitlements View or Search Organizations
	Organization - View Organization Published Application Instances	Allows a User to see the applications published to an Organization	View Available Accounts View or Search Organizations
Identity Audit Policy	Identity Audit Policy - Create	Allows a User to create an Identity Audit Policy	Create Identity Audit Policy View or Search Identity Audit Policy Assign or Unassign Identity Audit Rule Create Identity Audit Scan Run View Identity Audit Configuration
	Identity Audit Policy - Modify	Allows a User to modify an Identity Audit Policy	Modify Identity Audit Policy View or Search Identity Audit Policy Assign or Unassign Identity Audit Rule Create Identity Audit Scan Run View Identity Audit Configuration

**Table B-1 (Cont.) Authorization Functional Capabilities**

<b>Functional Type</b>	<b>Functional Capability</b>	<b>Description</b>	<b>Implied Capabilities</b>
	Identity Audit Policy - Delete	Allows a User to delete an Identity Audit Policy	Delete Identity Audit Policy View or Search Identity Audit Policy
	Identity Audit Policy - Enable	Allows a User to enable an Identity Audit Policy	Enable Identity Audit Policy View or Search Identity Audit Policy
	Identity Audit Policy - Disable	Allows a User to disable an Identity Audit Policy	Disable Identity Audit Policy View or Search Identity Audit Policy
	Identity Audit Policy - Assign Rule	Allows a User to assign Identity Audit Rules to an Identity Audit Policy	Assign Identity Audit Rule View or Search Identity Audit Policy
	Identity Audit Policy - Unassign Rule	Allows a User to unassign Identity Audit Rules from an Identity Audit Policy	Unassign Identity Audit Rule View or Search Identity Audit Policy
	Identity Audit Policy - View / Search	Allows a User to view an Identity Audit Policy	View or Search Identity Audit Policy View Identity Audit Rule
Identity Audit Rule	Identity Audit Rule - Create	Allows a User to create an Identity Audit Rule	Create Identity Audit Rule View or Search Identity Audit Rule
	Identity Audit Rule - Modify	Allows a User to modify an Identity Audit Rule	Modify Identity Audit Rule View or Search Identity Audit Rule
	Identity Audit Rule - Delete	Allows a User to delete an Identity Audit Rule	Delete Identity Audit Rule View or Search Identity Audit Rule
	Identity Audit Rule - Enable	Allows a User to enable an Identity Audit Rule	Enable Identity Audit Rule View or Search Identity Audit Rule
	Identity Audit Rule - Disable	Allows a User to disable an Identity Audit Rule	Disable Identity Audit Rule View or Search Identity Audit Rule
	Identity Audit Rule - View/Search	Allows a User to view an Identity Audit Rule	View or Search Identity Audit Rule
Identity Audit Configuration	Identity Audit Configuration - Modify	Allows a User to modify the Identity Audit Configuration	Modify Identity Audit Configuration View Identity Audit Configuration
	Identity Audit Configuration - View	Allows a User to view the Identity Audit Configuration	View Identity Audit Configuration



**Table B-1 (Cont.) Authorization Functional Capabilities**

<b>Functional Type</b>	<b>Functional Capability</b>	<b>Description</b>	<b>Implied Capabilities</b>
Identity Audit Scan Definition	Identity Audit Scan Definition - Create	Allows a User to create an Identity Audit Scan definition	Create Identity Audit Scan Definition View or Search Identity Audit Scan Definition Create Identity Audit Scan Run
	Identity Audit Scan Definition - Modify	Allows a User to modify an Identity Audit Scan definition	Modify Identity Audit Scan Definition View or Search Identity Audit Scan Definition Create Identity Audit Scan Run
	Identity Audit Scan Definition - Delete	Allows a User to delete an Identity Audit Scan definition	Delete Identity Audit Scan Definition View or Search Identity Audit Scan Definition
	Identity Audit Scan Definition - View	Allows a User to view and search for Identity Audit Scan Definitions	View or Search Identity Audit Scan Definition View User View Role View Application Instance View Entitlement View Organization View Requests View User Roles View User Accounts View User Entitlements View Identity Audit Policy View Identity Audit Configuration View Identity Audit Scan Run Search Catalog Item
Identity Audit Scan Run	Identity Audit Scan Run - Create	Allows a User to create an Identity Audit Scan Run	Create Identity Audit Scan Run View or Search Identity Audit Scan Run
	Identity Audit Scan Run - Delete	Allows a User to delete an Identity Audit Scan Run	Delete Identity Audit Scan Run View or Search Identity Audit Scan Run
	Identity Audit Scan Run - View	Allows a User to view and search for Identity Audit Scan runs	View or Search Identity Audit Scan Run View Identity Audit Policy Violation View Identity Audit Policy Violation Cause

**Table B-1 (Cont.) Authorization Functional Capabilities**

<b>Functional Type</b>	<b>Functional Capability</b>	<b>Description</b>	<b>Implied Capabilities</b>
Identity Audit Policy Violation	Identity Audit Policy Violation - Force Close	Allows a User to force close an Identity Audit Policy Violation	Force Identity Audit Policy Violation Close View or Search Identity Audit Policy Violation
	Identity Audit Policy Violation - Assign	Allows a User to assign or reassign an Identity Audit Policy Violation	Assign Identity Audit Policy Violation View or Search Identity Audit Policy Violation
	Identity Audit Policy Violation - Complete	Allows a User to complete an Identity Audit Policy Violation	Complete Identity Audit Policy Violation View or Search Identity Audit Policy Violation
	Identity Audit Policy Violation - View	Allows a User to view and Identity Audit Policy Violation	View or Search Identity Audit Policy Violation
Identity Audit Policy Violation Cause	Identity Audit Policy Violation Cause - Accept Risk	Allows a User to accept the risk on an Identity Audit Policy Violation Cause	Accept Identity Audit Policy Violation Risk View or Search Identity Audit Policy Violation Cause
	Identity Audit Policy Violation Cause - View	Allows a User to view an Identity Audit Policy Violation Cause	View or Search Identity Audit Policy Violation Cause
	Identity Audit Policy Violation Cause - Request Remediation	Allows a User to request remediation on an Identity Audit Policy Violation Cause	Request Identity Audit Policy Violation Remediation View or Search Identity Audit Policy Violation Cause
	Identity Audit Policy Violation Cause - Mark as Fixed	Allows a User to mark an Identity Audit Policy Violation Cause as fixed	Mark Identity Audit Policy Violation as Fixed View or Search Identity Audit Policy Violation Cause
Certification	Certification - Modify	Allows a User to modify a Certification	Modify Certification View Certification
	Certification - View	Allows a User to view a Certification	View Certification
	Certification - Modify Configuration	Allows a User to modify the Certification Configuration	Modify Certification Configuration
	Certification - View Configuration	Allows a User to view the Certification Configuration	View Certification Configuration

**Table B-2 Self Capabilities**

<b>Functional Type</b>	<b>Functional Capability</b>	<b>Description</b>	<b>Implied Capabilities</b>
Self Service	Self Service - Modify Profile	Allows a User to modify their own user profile	Modify Self View or Search Self

**Table B-2 (Cont.) Self Capabilities**

<b>Functional Type</b>	<b>Functional Capability</b>	<b>Description</b>	<b>Implied Capabilities</b>
	Self Service - Modify Proxy	Allows a User to add, modify, delete or view their own proxies	Modify Self Proxy View or Search Self Add Self Proxy Delete Self Proxy View Self Proxy
	Self Service - Request Role Memberships	Allows a User to request Roles published to their home organization	Request Self Role Modify Self Role View Self Roles
	Self Service - Modify Roles Memberships	Allows a User to modify Roles assigned to them	Modify Self Role View Self Roles
	Self Service - Revoke Role Memberships	Allows a User to delete Roles assigned to them	Remove Self Role Modify Self Role View Self Roles
	Self Service - Request Accounts	Allows a User to request Accounts published to their home organization, including start and end dates	Request Self Account Modify Self Accounts View Self Accounts
	Self Service - Modify Accounts	Allows a User to modify Accounts assigned to them	Modify Self Accounts View Self Accounts
	Self Service - Change Account Password	Allows a User to change password on Accounts assigned to them	Change Self Account Password View Self Accounts
	Self Service - Revoke Accounts	Allows a User to delete Accounts assigned to them now or on a specified end date	Remove Account Modify Self Account View Self Accounts
	Self Service - Request Entitlements	Allows a User to request Entitlements published to their home organization, including start and end dates	Request Self Entitlement Modify Self Entitlement View Self Entitlements
	Self Service - Modify Entitlements	Allows a User to modify Entitlements assigned to them	Modify Self Entitlement View Self Entitlements
	Self Service - Revoke Entitlements	Allows a User to delete Entitlements assigned to them now or at a specified end date	Remove Self Entitlement Modify Self Entitlement View Self Entitlements

