

Oracle® WebLogic Integration

Using Oracle Enterprise Repository with WLI Applications
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Introduction

Oracle Enterprise Repository Overview

Oracle Enterprise Repository is an SOA repository that provides tools to manage and govern the metadata for any type of software asset, from processes and services to patterns, frameworks, applications, components, and data services. Oracle Enterprise Repository maps the relationships and interdependencies that connect those assets to improve impact analysis, promote and optimize their reuse, and measure their impact on the bottom line.

In Oracle WebLogic Integration (WLI), you can do the following:

- Search for services stored in Oracle Enterprise Repository and use them in WLI

You can select services from Oracle Enterprise Repository and use them in WLI processes. For example, you can search for a specific web service, retrieve the WSDL from Oracle Enterprise Repository, and use it to generate a service control in a WLI process. You can search for assets, based on keywords or the type of service (WSDL- or XML-based).

- Store metadata about WLI artifacts in Oracle Enterprise Repository

You can store metadata about WLI assets in Oracle Enterprise Repository. The metadata includes information that can be used to make a WLI asset discoverable by other products for reuse.

For more information, see [Oracle Enterprise Repository](#) documentation.

Topics Included in This Guide

Oracle Enterprise Repository integration with WLI enables you to search for and use assets from the repository without having to leave the WLI IDE ((Integrated Development Environment).

This guide uses the **Tutorial:Request Quote Process Application** to describe the following tasks:

- [Create the Tutorial: Request Quote Process Application](#): This section describes how to create the Tutorial:Request Quote Process Application.
- [Publish a Software Asset to Oracle Enterprise Repository](#): This section describes how to publish WLI artifacts, such as JPDs and task plans to Oracle Enterprise Repository as software assets.
- [Discover and Consume a Software Asset from Oracle Enterprise Repository](#): This section describes how to discover WLI artifacts in the WLI IDE, and consume a WLI artifact by importing WSDL of the software asset.

WLI Integration with Oracle Enterprise Repository

Before you begin, ensure that you have installed Oracle WebLogic Integration on your system and defined a workspace.

Create the Tutorial: Request Quote Process Application

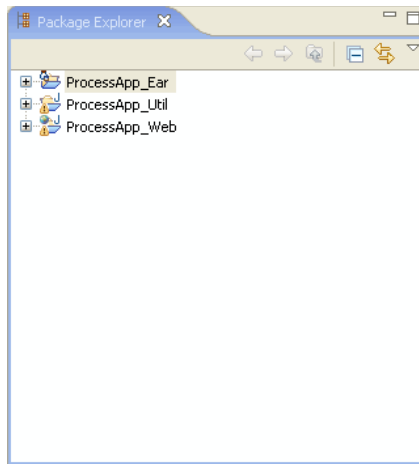
Complete the following steps:

1. From the **Start** menu, click **All Programs > Oracle WebLogic > Oracle Workshop for WebLogic 10gR3** to start the Oracle Workshop for WebLogic IDE. The **Workspace Launcher** dialog is displayed.
2. From Oracle Workshop for WebLogic menu, click **File > New > Other**. The **Select a Wizard** dialog is displayed.
3. Expand WebLogic Integration, and select **Tutorial:Request Quote Process Application**, and click **Next**.
4. In the **Request Quote Process Application** dialog, enter the following:
 - a. In the **Ear Project Name** field, enter `ProcessApp_Ear`.
 - b. In the **Web Project Name** field, enter `ProcessApp_Web`.
 - c. In the **Utility Project Name** field, enter `ProcessApp_Util`.
5. Select the **Add Weblogic Integration System and Control Schemas in Utility Project** check box to add the System schemas to the **Schemas** folder under the Utility project.
6. Click **Finish**.

7. In the displayed **Open Associated Perspective?** dialog, click **Yes** to switch from **J2EE (default) Perspective** to **Process Perspective**.

The Tutorial Process Application is created and displayed in the **Package Explorer** pane (see [Figure 2-1](#)).

Figure 2-1 Process Application



For more information about **Tutorial:Request Quote Process Application**, see [Tutorial:Designing your First Business Process](#).

Publish a Software Asset to Oracle Enterprise Repository

1. Right-click **ProcessApp_Web**, and select **Submit Service Assembly Model to Enterprise Repository**.

The **Establish Enterprise Repository Connection** dialog appears (see [Figure 2-2](#)).

Note: You can also establish the Oracle Enterprise Repository connection, by selecting **Window > Preferences > Oracle Enterprise Repository** from the **Oracle Workshop for WebLogic** menu.

Figure 2-2 Enterprise Repository Connection

Establish Enterprise Repository Connection

Enterprise Repository Connection
Specify the credentials to establish enterprise repository connectivity

Credentials

Repository URL:
e.g. http://localhost:7101/aler30

User name:

Password:

Select the Establish Connection button to ensure enterprise repository connectivity

2. In the **Establish Enterprise Repository Connection** dialog enter the following:
 - Repository URL: The URL of the repository server. The URL must include the host, port, and the Oracle Enterprise Repository server name. For example, http://localhost:7001/aler30.
 - User Name: The user name to gain access to the repository.
 - Password: The password to gain access to the repository.
3. Click **Establish Connection**.

The **Connection to the enterprise repository was successful** message appears after the connection is established with Oracle Enterprise Repository.
4. When the connection is established, click **Next** to select your workspace preferences.

The **Enterprise Repository Preferences** dialog appears (see [Figure 2-3](#)).

Figure 2-3 Enterprise Repository Preferences

The screenshot shows a dialog box titled "Establish Enterprise Repository Connection" with a sub-tab "Enterprise Repository Preferences". The instruction "Specify the workspace preferences" is at the top. The form includes a "Model namespace:" text field, a "Repository project:" dropdown menu currently set to "<None>", and an unchecked checkbox for "Enable usage detection". Below this is the "Artifact Store" section, which includes a "Name:" dropdown menu set to "<None>" and a "Details:" text area. At the bottom of the dialog are four buttons: a help icon (?), "< Back", "Next >", "Finish", and "Cancel".

5. Specify the following workspace preference:

- a. Enter **Example** in the **Model namespace** field.

Note: Enter a Model Namespace to use as the default, for all of your projects. The Namespace provides a means to organize your models, with the Namespace pre-pended to the names of all the assets in the model in the repository. However, you can change the Namespace on a project-by-project basis (such as when submitting assets), and the new Namespace will only be saved for that project, but will not affect the Workspace Preference name.

- b. For the **Repository project**, accept the default setting.

Note: Select a Repository project in Oracle Enterprise Repository that the submitted model will be associated with. Asset usage is tracked in the repository and attributed to repository projects, which typically represent software development programs, business initiatives, and so on.

- c. Clear the **Enable usage detection** check box.

Note: If you selected an Oracle Enterprise Repository project as the workspace default, usage detection is enabled for the default Oracle Enterprise Repository project.

For more information about workspace preferences, see [Setting Eclipse Preferences for Oracle Enterprise Repository](#).

- d. Accept the default setting for **Artifact Store**.
Note: The Artifact Store area displays the name of a preconfigured Artifact Store that the submitted assets will be associated with. Artifact Stores contain the files relevant to assets in Oracle Enterprise Repository and are configured in the Oracle Enterprise Repository console by an administrator. The Details box may also display some additional information about the Artifact Store.
 - e. Click **Finish** to exit.
6. **There are no enterprise repository service reference matches** dialog appears. Click **OK**. The **Submit Assets to Enterprise Repository** dialog appears (see [Figure 2-4](#)).
- Note:** This dialog appears, when you submit a project and the repository tries to match the unresolved references in the current project with any services which are already there in Oracle Enterprise Repository and if the matching process fails.

Figure 2-4 Submit Assets to Enterprise Repository

Submit Assets to Enterprise Repository

Specify Submission Information

Submitting an Assembly model without associated SCM information will prevent downloading of external files

Submission Information

Model name: ProcessApp_Web

Model version: <default>

Model namespace:

Repository project: <None>

Comments for registrar:

Artifact Store

Identify the Repository Artifact Store in which your asset artifacts are saved

Name: <None>

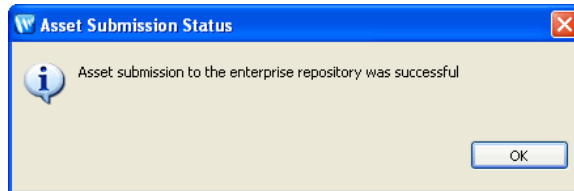
Details:

Project path: ProcessApp_Web

Finish Cancel

7. In the **Submit Assets to Enterprise Repository** window, accept the default setting, and click **Finish**. For more information on submitting assets, see [Submitting Assets to Oracle Enterprise Repository](#).
8. After the asset is submitted to the enterprise repository, the **Asset submission to the enterprise repository was successful** dialog appears (see [Figure 2-5](#))

Figure 2-5 Asset Submission Status



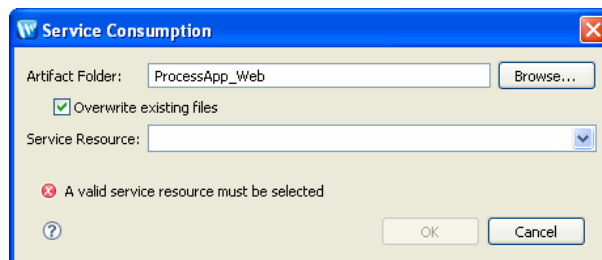
9. Click **OK**.

Discover and Consume a Software Asset from Oracle Enterprise Repository

1. Right-click **ProcessApp_Web**, and select **Import WSDL**.

The **Service Consumption** window appears (see [Figure 2-6](#)).

Figure 2-6 Service Consumption



2. In the **Service Resource** field, select **Enterprise Repository** from the drop-down list.

The Enterprise Repository Access view appears (see [Figure 2-7](#)).

Figure 2-7 Enterprise Repository Access View

Service Consumption

Artifact Folder:

☒ Overwrite existing files

Service Resource:

Enterprise Repository Access:

Query [Results](#)

Enter query terms:

Categorizations - match ALL the selected categorizations

- ☐ Asset Functions
- ☐ Asset Lifecycle Stages
- ☐ Business Objectives
- ☐ Classifications
- ☐ Domains
- ☐ dW Communities
- ☐ Enterprise Architecture Model
- ☐ GEOs
- ☐ Lines Of Business
- ☐ NAICS
- ☐ Sources
- ☐ Technologies
- ☐ UNSPSC 7.3

Additional Criteria

Field	Operator	Value

The WSDL and dependent artifacts for the selected service will be downloaded into the Artifact Folder

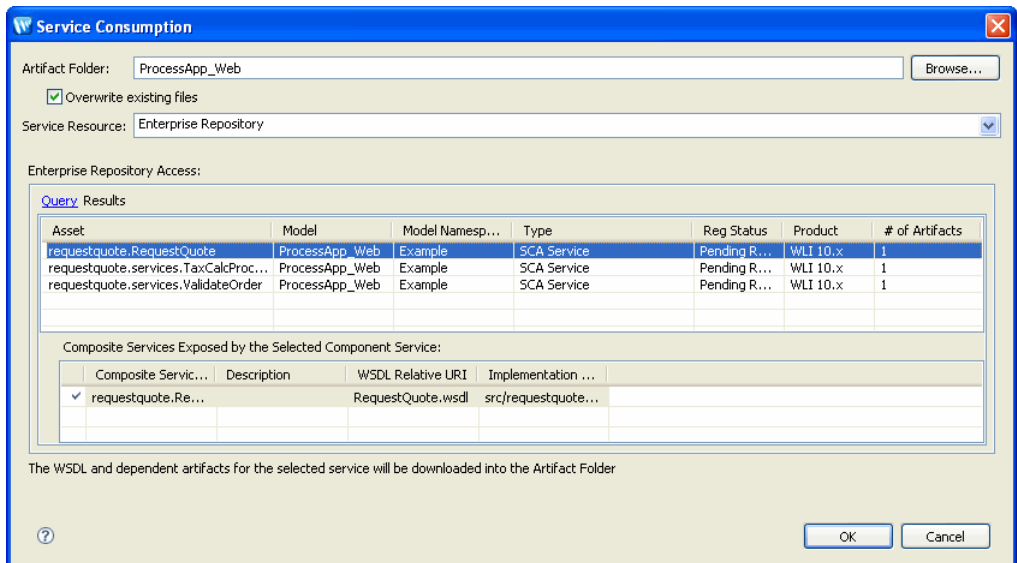
☒ An asset must be selected

- Enter **Example** (The name you gave for the Model namespace) in the **Enter query terms** field, and click tab.

The Result Pane shows all assets that satisfy the search criteria established in the Query pane. It displays information for all query results, such as the asset name, asset type and registration status. For more information, see [Viewing and Querying Assets in the Repository](#).

- In the Result Pane, select **Example**, as shown in [Figure 2-8](#), and click **OK**.

Figure 2-8 Result Pane



The software asset (WSDL) is generated under ProcessAPP_Web (see [Figure 2-9](#)).

Figure 2-9 WSDL

