

Oracle® Construction and Engineering Sync Primavera Cloud Project Details with P6



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Preface

This document describes how to install, configure, and run this recipe in Oracle Integration 3.

Topics:

- [Documentation Accessibility](#)
- [Diversity and Inclusion](#)
- [Related Resources](#)
- [Conventions](#)

Documentation Accessibility

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

For more information, see these Oracle resources:

- Oracle Cloud at <http://cloud.oracle.com>
- *Using Integrations in Oracle Integration 3*
- [Using the SOAP Adapter with Oracle Integration 3](#)
- *Using the Oracle Primavera Cloud Adapter with Oracle Integration 3*
- *Sync P6 Project Details with Primavera Cloud*
- Oracle Integration documentation
- [Oracle Primavera Cloud documentation](#)

Conventions

The following text conventions are used in this document.

Convention	Meaning
boldface	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.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

About This Recipe

Use this recipe to synchronize Oracle Primavera Cloud project details, including configured fields and codes, with Oracle Primavera P6 EPPM.



Note:

This recipe is available as **Oracle Primavera Cloud — P6 EPPM | Sync Project Details** in Oracle Integration. Oracle provides this recipe as a sample only. The recipe is meant only for guidance, and is not warranted to be error-free. No support is provided for this recipe.

Overview

This recipe delivers a project that includes one integration and several connections.

To use this recipe, you must:

- Ensure the configured fields/UDFs and codes are defined in both the source and target applications.
- Install the recipe and configure the delivered connections in Oracle Integration.
- Activate the integration and update the property values to specify the integration parameters.
- Run the integration manually, or specify an integration schedule.

Running the integration obtains the project object data, including configured fields and codes, from Oracle Primavera Cloud, and then synchronizes that data with Oracle Primavera P6 EPPM. Based on the parameters you provide, synchronization either updates an existing project or creates a new project.



Note:

Configured Fields in Oracle Primavera Cloud are called *UDFs* in Oracle Primavera P6 EPPM.

System and Access Requirements

- Oracle Integration Version 3
- Oracle Primavera Cloud
- Oracle Primavera P6 EPPM Version 20.0 or higher with Web Services installed
- An account in Oracle Primavera Cloud with view, create, and edit privileges for a project and workspace
- An account in Oracle Primavera P6 EPPM with view, edit, and create access for projects

2

Before You Install the Recipe

In order to be able to synchronize project details, you must perform the following configuration tasks in both Oracle Primavera Cloud and Oracle Primavera P6 EPPM.

Configure Oracle Primavera Cloud

To configure Oracle Primavera Cloud for this integration, complete the initial setup outlined below:

- **Create an Integration User Account:** You can create an integration user account in Oracle Primavera Cloud to connect with Oracle Integration and manage integrations. Specify the integration account email address in the integration properties to receive integration notifications. Creating an integration account is optional but recommended to keep track of the data modified through integrations and to avoid issues related to using a standard user account, such as account lockouts or the employee leaving the organization. For details, see [Setting up an Integration User Account](#).
- **Create or Use an Existing Workspace:** Workspaces represent the hierarchical structure of your organization's businesses, projects, or processes. Before synchronizing Oracle Primavera P6 EPPM and Oracle Primavera Cloud projects, create a workspace where you want to add the project and obtain the workspace ID. For details, see [Add a Workspace](#).
- **Create or Use an Existing Project:** A project is a formalized plan undertaken to create a service, product, or result. Projects may consist of various other details, including activities and assignments. You must add at least one project to the Oracle Primavera Cloud workspace where you want to synchronize the project details with Oracle Primavera P6 EPPM. For details, see [Add a Project](#).
- **Create Configured Fields:** Configured fields are user-created fields that allow you to define and maintain data specific to your organization. Configured fields are created in the context of an object. Before synchronizing Oracle Primavera P6 EPPM and Oracle Primavera Cloud projects, ensure the configured fields are set up and available for use in the workspace. For details, see [Configured Fields Overview](#).
- **Configure Codes:** Codes help you categorize your data objects based on attributes that they share. If you have many instances of an object, codes help you group and filter potentially vast amounts of information spanning different areas of the organization. You can also use codes to arrange objects hierarchically. Configure and assign codes before synchronizing Oracle Primavera P6 EPPM and Oracle Primavera Cloud projects. For details, see [Codes](#).

Configure Oracle Primavera P6 EPPM

To configure Oracle Primavera P6 EPPM for this integration, complete the initial setup outlined below:

- **Create an Integration User Account:** You can create an integration user account in Oracle Primavera P6 EPPM to connect with Oracle Integration and manage integrations with Oracle Primavera Cloud. Creating an integration account is optional but recommended to keep track of the data modified through integrations and to avoid issues

related to using a standard user account, such as account lockouts or the employee leaving the organization. See [Creating User Accounts for P6 EPPM](#).

- **Create an EPS Location:** Enterprise project structure (EPS) elements represent the hierarchical positions of all the projects in your database. You can create sibling EPSs to represent those that are hierarchically equal, or child EPSs to represent those that are subordinate. You must create the EPS structure before synchronizing Oracle Primavera P6 EPPM and Oracle Primavera Cloud projects. See [Creating EPS Elements](#)
- **Add a Project:** You must add at least one project in Oracle Primavera P6 EPPM before synchronizing Oracle Primavera P6 EPPM and Oracle Primavera Cloud projects. See [Creating Projects](#).
- **Create User-Defined Fields:** User-defined fields (UDFs) allow you to create and maintain data specific to your organization. Create project UDFs before synchronizing Oracle Primavera P6 EPPM and Oracle Primavera Cloud projects. See [About User Defined Fields](#) and [Creating Project UDFs](#).
- **Create and Assign Codes:** Codes help you track different projects based on attributes they share. You must create and assign codes to your Oracle Primavera P6 EPPM projects before synchronizing Oracle Primavera P6 EPPM and Oracle Primavera Cloud projects. See [Creating Project Codes](#) and [Assigning Project Codes](#)

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Install and Configure the Recipe


On your Oracle Integration instance, install the recipe to deploy and configure the integration and associated resources.

1. On the Oracle Integration Home page, in the **Get Started** section, click **Browse store**.
2. Search for this recipe:

Oracle Primavera Cloud — P6 EPPM | Sync Project Details

3. After you find the recipe, click **Get** on the recipe card.

A message confirms that the recipe was successfully installed, and the recipe card shows **In use**.

4. Click **Configure**  on the recipe to configure its resources.

The project workspace opens, displaying all the resources of the recipe.

Configure the following resources before you run the integration:

1. [Configure the Oracle Primavera Cloud Connection](#)
2. [Configure the Oracle Primavera P6 EPPM Connections](#)
3. [Update Integration Properties](#)
4. [Review the Lookup Table](#)


Configure the Oracle Primavera Cloud Connection

1. In the **Connections** section, click the connection name: **Oracle Primavera Cloud Adapter Connection**
2. In the **Properties** section, in the **Connection URL** field, enter the URL of your Oracle Primavera Cloud instance.

For example: `https://primavera.oraclecloud.com`

3. In the **Security** section, do the following:
 - a. From the **Security Policy** list, select **Oracle Primavera Cloud Login**.
 - b. In the **User Name** field, enter the user name of your Oracle Primavera Cloud or integration account.
 - c. In the **Password** field, enter the password of your Oracle Primavera Cloud or integration account.
4. In the **Access type** section, select **Public gateway**.
5. Click **Save**. If prompted, click **Save** again.
6. Click **Test** to ensure that your connection is successfully configured. In the resulting dialog, click **Test** again.

A message confirms if your test is successful.

7. To return to the project workspace, click **Go back** .

Configure the Oracle Primavera P6 EPPM Connections

This recipe delivers several Oracle Primavera P6 EPPM connections, all of which need to be configured for this integration.


Do the following steps for each Oracle Primavera P6 EPPM connection.

1. In the **Connections** section, click one of the Oracle Primavera P6 EPPM connection names to begin configuring it.
2. In the **Properties** section, in the **WSDL URL** field, enter the URL of the Oracle Primavera P6 EPPM Web Service WSDL for the selected connection.

Connection Name	WSDL URL
P6 EPPM EPS Connection	https://<hostname>/p6ws/services/EPSService?wsdl
P6 EPPM UDF Type Connection	https://<hostname>/p6ws/services/UDFTypeService?wsdl
P6 EPPM Project Connection	https://<hostname>/p6ws/services/ProjectService?wsdl
P6 EPPM ProjectCodeAssignment Connection	https://<hostname>/p6ws/services/ProjectCodeAssignmentService?wsdl
P6 UDF Values Connection	https://<hostname>/p6ws/services/UDFValueService?wsdl
P6 EPPM ProjectCodesConnection	https://<hostname>/p6ws/services/ProjectCodeService?wsdl


3. In the **Security** section, do the following:
 - a. In the **Security Policy** field, select **Username Password Token**.
 - b. In the **User Name** field, enter the user name of the integration user account.
 - c. In the **Password** field, enter the password of the integration user account.
4. In the **Access type** section, select **Public gateway**.
5. Click **Save**. If prompted, click **Save** again.
6. Click **Test** to ensure that your connection is successfully configured. In the resulting dialog, click **Test** again.

A message confirms if your test is successful.

7. To return to the project workspace, click **Go back** .

Update Integration Properties

In order to synchronize project details, you must activate the integration and then define the following integration properties.

1. Go to the **Integrations** section of the project workspace.
2. Activate the integration.
 - a. Click **Actions**  next to the integration, then select **Activate**.

- b. In the **Active Integration** panel, select the appropriate tracing level, then click **Activate**.
3. Update the integration property values.
 - a. Click **Actions** ... next to the integration, then select **Update property values**.
 - b. In the **Update property values** panel, do the following:
 - i. Click to expand the **EPSId** property, then in the **New value** field, enter the project ID of the Oracle Primavera P6 EPPM EPS ID where the project needs to be created.
 - ii. Click to expand the **Email** property, then in the **New value** field, enter the email address of the user running the integration. Any integration notifications will be sent to this email address.
 - iii. Click to expand the **WorkspaceCode** property, then in the **New value** field, enter the workspace ID of the Oracle Primavera Cloud workspace where the source project exists.
 - iv. Click to expand the **ProjectCode** property, then in the **New value** field, enter the project ID of the Oracle Primavera Cloud project.
 - c. Click **Submit**.


You get a confirmation message that the integration properties have been updated successfully.

Review the Lookup Table

Review the **ORCL_P6_PRIMAVERA_CLOUD_PROJECT_STATUS** lookup table to view the field mappings between your Oracle Primavera Cloud and Oracle Primavera P6 EPPM instances.

1. Go to the **Lookups** section of the project workspace.
2. Click the lookup named **ORCL_P6_PRIMAVERA_CLOUD_PROJECT_STATUS** and review the field mappings.

Oracle Primavera P6 EPPM	Oracle Primavera Cloud
Active	ACTIVE
Inactive	INACTIVE
Planned	PLANNED
Requested	PROPOSAL
What-if	PLANNED

3. To return to the project workspace, click **Go back** .

4

Run the Integration

After you've configured the connections and other resources, you can run the integration.

1. Go to the **Integrations** section of the project workspace.
2. Click **Actions** ■■■ next to the integration, then select **Run**.
3. On the Configure and run page, do the following:
 - a. From the **Run As** list, select the user name of the user running the integration.
 - b. In the **Request type** section, select **Ad hoc request** to run the integration independent of a schedule.
 - c. Click **Run**.

You've now successfully submitted the integration for execution.

Note:

You can also schedule this integration to run at a date, time, and frequency of your choosing. See [Define the Integration Schedule](#).

4. Click the **Observe** tab at the top of the project workspace.

You will see the integration flow being triggered and running successfully.

Note:

To manage errors in your project, see [Manage Errors in a Project](#).

5. View the the synchronized project details in Oracle Primavera P6 EPPM.
 - a. Log in to Oracle Primavera P6 EPPM and select **Projects**.
 - b. On the **Projects** navigation bar, select **EPS**.
 - c. Expand the EPS where your project is located.
 - d. Select the project to view it.