

Migrate Primavera P6 EPPM and Oracle Primavera Cloud Project Data



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About This Content

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

Related Resources

See these Oracle resources:

- Oracle Cloud at <https://www.oracle.com/cloud/>
- *Using Integrations in Oracle Integration 3*
- Oracle Integration documentation
- [Using the SOAP Adapter with Oracle Integration 3](#)
- [Using the REST Adapter with Oracle Integration 3](#)
- [Oracle Primavera P6 EPPM 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.
monospace	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 Accelerator

Use this accelerator to migrate project data and baselines from Primavera P6 EPPM to Oracle Primavera Cloud, and project data from Oracle Primavera Cloud to Primavera P6 EPPM.

Note

This accelerator is available as **P6 EPPM — Primavera Cloud | Migrate Project Data** in the Integration store.

Delivered Integrations

This accelerator delivers a project called **P6 Oracle Primavera Cloud Migrate Project** which contains four main integrations and two helper integrations.

Main integrations:

- **P6 to Oracle Primavera Cloud Migrate Project Sync:**
Migrates a single project and its baselines from Primavera P6 EPPM to Oracle Primavera Cloud.
- **P6 to Primavera Cloud MigrateProject by CodeFilter:**
Migrates multiple projects and baselines from Primavera P6 EPPM to Oracle Primavera Cloud. It uses the project code type filter as an input to fetch projects from Primavera P6 EPPM.
- **Oracle Primavera Cloud to P6 Migrate Project Sync:**
Migrates a single project from Oracle Primavera Cloud to Primavera P6 EPPM.
- **Primavera Cloud to P6 MigrateProject by CodeFilter:**
Migrates multiple projects from Oracle Primavera Cloud to Primavera P6 EPPM. It uses the project code type filter as an input to fetch multiple projects from Oracle Primavera Cloud.

Helper integrations:

- **Primavera Cloud P6 Migrate Project Schedule Event**
This is an event driven integration, used by **P6 to Primavera Cloud MigrateProject by CodeFilter**.
- **P6 to Primavera Cloud Migrate Project Event**
This is an event driven integration, used by **Primavera Cloud to P6 MigrateProject by CodeFilter**.

System and Access Requirements

- Oracle Integration 3

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

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Before You Install the Accelerator

Complete the setup steps below before you install and run this accelerator:

1. [Perform the required general configuration tasks in Oracle Primavera Cloud.](#)
2. [Perform the required general configuration tasks in Primavera P6 EPPM.](#)
3. [Prepare Base64-Encoded Credentials.](#)

Configure Oracle Primavera Cloud

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

- **Create an integration user account (recommended):**

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 operational issues (for example, user lockouts or user lifecycle changes). 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.

You must create a workspace before migrating project data from Primavera P6 EPPM to Oracle Primavera Cloud. 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 create at least one project before migrating project data from Primavera P6 EPPM to Oracle Primavera Cloud. For details, see [Add a Project](#).

Configure Primavera P6 EPPM

To configure 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 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 operational issues (for example, user lockouts or user lifecycle changes). For details, see [Creating User Accounts for P6 EPPM](#).

Prepare Base64-Encoded Credentials

Some REST Adapter connections that use OAuth authentication require a Base64-encoded `username:password` value to request an access token.

Read the sections below to find out which credentials need to be encoded, how to generate Base64-encoded credentials, and which connections need the encoded credentials.

Which Credentials Need To Be Encoded?

For this project, you need to generate two encodings:

1. **Oracle Primavera Cloud:** Encode your Oracle Primavera Cloud user name and password.
2. **Primavera P6 EPPM:** Encode your Primavera P6 EPPM user name and password.

How To Generate Base64-Encoded Credentials

1. Go to <https://www.base64encode.org/>.
2. Enter the user name and password in the following format:

```
username:password
```

3. Click **Encode**.

Note

Base64 is not encryption, it is only an encoding. For production credentials, avoid entering usernames/passwords into public online tools. If you must use an online encoder, use it only for non-production accounts. For production credentials, you should generate the value locally using your organization's approved method.

Where To Use the Encoded Credentials

Once you generate the encoded credentials, you can copy and paste them into the access token request of the appropriate connection:

1. See [Oracle Primavera Cloud REST Connection](#) for details. In the access token request example, you will replace `<Base64-encoded-username-and-password>` with the encoded Oracle Primavera Cloud user name and password value.
2. See [Oracle Primavera P6 EPPM REST Connection](#) for details. In the access token request example, replace `<Base64-encoded-username-and-password>` with the encoded Primavera P6 EPPM user name and password value.

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Install and Configure the Accelerator

On your Oracle Integration instance, install the accelerator to deploy the project. Once installed, you can configure the delivered connections.

Install the Accelerator

1. On the Oracle Integration Home page, in the **Get Started** section, click **Browse store**.

2. Search for this accelerator:

P6 EPPM — Primavera Cloud | Migrate Project Data

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

A message confirms that the accelerator was successfully installed, and the accelerator card shows **In Use**.

4. Click **Configure**  on the accelerator card.

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


Configure the Connections

This accelerator delivers three connections that you need to configure before the integrations can be run:

- [Oracle Primavera Cloud REST Connection](#)
- [Oracle Primavera P6 EPPM Soap Connection](#)
- [Oracle Primavera P6 EPPM REST Connection](#)

Oracle Primavera Cloud REST Connection

This connection uses the standard REST Adapter to make API requests.

1. In the **Connections** section, click **Actions**  on the connection, then select **Edit**.
2. In the **Properties** section, do the following:
 - a. In the **Connection Type** field, select **REST API Base URL**.
 - b. In the **Connection URL** field, enter the URL of your Oracle Primavera Cloud REST API instance.

For example:

```
https://primavera.oraclecloud.com/api/restapi/
```

Note

You must include `/api/restapi/` in the URL.

3. In the **Security** section, do the following:
 - a. In the **Security policy** field, select **OAuth Custom Two Legged Flow**.
 - b. In the **Access Token Request** field, enter the access token request in the following format:

```
-X POST "https://<SERVER_URL>/primediscovery/apitoken/request?
scope=http://<SERVER_URL>/api" \
-H "Authorization: Basic <Base64-encoded-username-and-password>" \
-d "grant_type=client_credentials"
```

Where:

- <SERVER_URL> is the base URL of your Oracle Primavera Cloud instance (for example, primavera.oraclecloud.com)
- <Base64-encoded-username-and-password> is your encoded user name and password value. See [Prepare Base64-Encoded Credentials](#).

Note

The `scope` value must reference the application's context root (`scope=http://<SERVER_URL>/api`) and must always be `http` (not `https`).

4. In the **Optional security** section, enter values for these fields in the following format:
 - **\$access_token**: `access.[tT]oken`
 - **\$refresh_token**: `refresh.[tT]oken`
 - **\$expiry**: `expires_in`
 - **\$token_type**: `token.?[tT]ype`
 - **\$access_token_usage**:

If single tenant, enter:

```
-H Authorization: Bearer ${access_token}
```


If multi-tenant, enter:

```
-H Authorization: Bearer ${access_token} \
-H x-prime-tenant:<PRIME_TENANT_NAME> \
-H x-prime-identity-app:<PRIME_IDENTITY_APP> \
-H x-prime-tenant-code:<PRIME_TENANT_CODE> \
-H x-prime-region:<PRIME_REGION>
```

Note



- The values for `x-prime-tenant` and the other prime headers come from your Oracle Primavera Cloud tenancy context.
- `x-prime-region` may be optional depending on your environment.

5. Click **Test** to ensure that your connection is successfully configured.
A message confirms if your test is successful.

6. Click **Save**. If prompted, click **Save** again.
7. To return to the project workspace, click **Go back**  .


Oracle Primavera P6 EPPM Soap Connection

This connection uses the standard SOAP Adapter.

1. In the **Connections** section, click **Actions**  on the connection, then select **Edit**.
2. In the **Properties** section, do the following.
 - In the **WSDL URL** field, enter the URL of the Primavera P6 EPPM Web Service WSDL.
For example: `https://<hostname>/p6ws/services/ImportService?wsdl`
3. In the **Security** section, do the following:
 - a. In the **Security policy** field, select **Username Password Token**.
 - b. In the **Username** and **Password** fields, enter the user name and password of the Primavera P6 EPPM integration user account.
4. Click **Test** to ensure that your connection is successfully configured.
A message confirms if your test is successful.
5. Click **Save**. If prompted, click **Save** again.
6. To return to the project workspace, click **Go back**  .


Oracle Primavera P6 EPPM REST Connection

This connection uses the standard REST Adapter to make API requests.

1. In the **Connections** section, click **Actions**  on the connection, then select **Edit**.
2. In the **Properties** section, do the following.
 - a. In the **Connection type** field, select **REST API Base URL**.
 - b. In the **Connection URL** field, enter the URL of your Primavera P6 EPPM REST API instance.
For example: `https://<SERVER_URL>/p6ws/restapi/`
Where:
 - `<SERVER_URL>` is the base URL of your Primavera P6 EPPM instance (for example, `p6.oraclecloud.com`).
3. In the **Security** section, do the following:
 - a. In the **Security policy** field, select **OAuth Custom Two Legged Flow**.
 - b. In the **Access Token Request** field, enter the access token request in the following format:

```
-X POST 'https://<SERVER_URL>/p6ws/oauth/token' \  
  -H 'authToken:<Base64-encoded-username-and-password>' \  
  -H "token_exp: 3600" \  
  -H 'return_json: true' \  
  -H 'Content-Length: 0'
```

Where:

- <SERVER_URL> is the base URL of your Primavera P6 EPPM instance (for example, p6.oraclecloud.com).
 - <Base64-encoded-username-and-password> is your encoded user name and password value. See [Prepare Base64-Encoded Credentials](#).
4. Click **Test** to ensure that your connection is successfully configured.
A message confirms if your test is successful.
 5. Click **Save**. If prompted, click **Save** again.
 6. To return to the project workspace, click **Go back**  .

4


Activate and Run the Integrations

After configuring the connections, you can activate and run the integrations.

The integrations that you will activate and run depend on your workflow (whether you are migrating a single or multiple projects) and the direction of the migration (whether you are migrating from Primavera P6 EPPM or Oracle Primavera Cloud).


Migrate a Single Project and Its Baselines from Primavera P6 EPPM to Oracle Primavera Cloud

For this workflow, you will activate and run the **P6 to Oracle Primavera Cloud Migrate Project Sync** integration.

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 **Activate integration** panel, select an appropriate **Tracing level** (*Production*, *Audit*, or *Debug*), then click the **Activate** button.


A message confirms that the integration has been activated. Refresh the page to view the updated status of the integration.

You can change the tracing level later by selecting **Actions**, and then **Configure activation**.

3. Run the integration.
 - a. Click **Actions**  next to the integration, then select **Run**.
 - b. On the **Configure and run** page, update the following schedule parameters:
 - **Project Code**: Specify the Primavera P6 EPPM project ID filter.
 - **PrjWorkspaceCode**: Specify the Oracle Primavera Cloud workspace location.
 - **BaselineProject**: Provide a value to include baselines. Valid options are **Project Baseline**, **All Baselines** and **No Baseline**.
 - c. Click **Run**.

Migrate a Single Project from Oracle Primavera Cloud to Primavera P6 EPPM

For this workflow, you will activate and run the **Oracle Primavera Cloud to P6 Migrate Project Sync** integration.

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

- c. Click **Run**.

Migrate Multiple Projects from Oracle Primavera Cloud to Primavera P6 EPPM

1. Go to the **Integrations** section of the project workspace.
2. Activate all three integrations listed below:
 - **Oracle Primavera Cloud to P6 Migrate Project Sync**
 - **Primavera Cloud to P6 MigrateProject by CodeFilter**
 - **Primavera Cloud P6 Migrate Project Schedule Event**

To activate each integration, do the following:

- a. Click **Actions** ■■■ next to the integration, then select **Activate**.
- b. In the **Activate integration** panel, select an appropriate **Tracing level** (*Production*, *Audit*, or *Debug*), then click the **Activate** button.

A message confirms that the integration has been activated. Refresh the page to view the updated status of the integration.

You can change the tracing level later by selecting **Actions**, and then **Configure activation**.

3. Run the **Oracle Primavera Cloud to P6 Migrate Project Sync** integration.
 - a. Click **Actions** ■■■ next to the integration, then select **Run**.
 - b. On the **Configure and run** page, update the following schedule parameters:
 - **CodeTypeName**: Specify the Oracle Primavera Cloud ProjectCodeTypeName to filter projects.
 - **CodeValue**: Specify the Oracle Primavera Cloud Project Code Type Value to filter projects.
 - **EPS Id**: Specify the Primavera P6 EPPM EPS location to create projects in if the project does not exist already. This field is optional if you are updating an existing project.
 - **PrjWorkspaceCode**: Specify the Oracle Primavera Cloud workspace location.
 - c. Click **Run**.