Oracle® Cloud
Using the Oracle Enterprise Performance Management Cloud Adapter with Oracle Integration
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### 1 Understand the Oracle Enterprise Performance Management Cloud Adapter

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### 2 Create an Oracle Enterprise Performance Management Cloud Adapter Connection

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### 3 Find More Information About Adapters and Integrations
Preface

This guide describes how to configure the Oracle Enterprise Performance Management Cloud Adapter as a connection in an integration in Oracle Integration.

Note:

The information in this guide applies to all of your Oracle Integration instances. It doesn’t matter which edition you’re using, what features you have, or who manages your cloud environment. You’ll find what you need here, including notes about any differences between the various flavors of Oracle Integration when necessary.

Topics

• Audience
• Documentation Accessibility
• Related Resources
• Conventions

Audience

This guide is intended for developers who want to use the Oracle Enterprise Performance Management Cloud Adapter in integrations in Oracle Integration.

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 Resources

See these Oracle resources:
• Oracle Cloud
  http://cloud.oracle.com
• Using Integrations in Oracle Integration
• Using the Oracle Mapper with Oracle Integration

Conventions

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td><strong>monospace</strong></td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Understand the Oracle Enterprise Performance Management Cloud Adapter

Learn about using the Oracle Enterprise Performance Management Cloud Adapter as a connection in integrations and review the typical workflow for integration tasks.

Topics:

• Oracle Enterprise Performance Management Cloud Adapter Capabilities
• What Application Version Is Supported?
• Process Automation Integration Pattern and Use Case
• Event Monitoring Integration Pattern and Use Case
• At a Glance: Workflow to Integrate with Oracle Enterprise Performance Management Cloud

Oracle Enterprise Performance Management Cloud Adapter Capabilities

Use the Oracle Enterprise Performance Management Cloud Adapter in an integration to connect Close Manager in Oracle Enterprise Performance Management Cloud to on-premise and cloud applications.

Automate financial close and tax close tasks, and monitor events in cloud and on-premise applications with Close Manager in:

• Oracle Tax Reporting Cloud
• Oracle Financial Consolidation and Close Cloud

What Application Version Is Supported?

For information about which application version is supported by this adapter, see the Oracle Integration Adapters Certification Matrix under section Oracle Integration Adapters Certification at the top of the page:

Oracle Integration Adapters Certification Matrix
Process Automation Integration Pattern and Use Case

Use Close Manager with Oracle Integration to invoke a business operation in another application. For example, post something on Facebook when a scheduled activity happens in Close Manager.

Integration Pattern

Create an orchestrated integration in Oracle Integration.

Design the integration:

- Add an Enterprise Performance Management connection as the trigger so that the integration can be triggered by Close Manager.
- Add a connection to the application that you want to automate as an invoke.
- Add an Enterprise Performance Management connection as an invoke to send status back to Close Manager.

Use Case: Post a Message on Facebook when Financial Close Completes

Let’s assume that every time a financial close task has been completed in Close Manager, you want to post a message to your company's Facebook page to indicate that the sales have been consolidated.

You can do this by building an integration in Oracle Integration with an Enterprise Performance Management connection and a Facebook connection. In Close Manager, you set up a scheduled task to do financial consolidation of sales. When financial consolidation of sales is complete, the integration is triggered.
<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A financial consolidation of sales task completes in Close Manager and triggers the task to post an automated message to Facebook. The task to post an automated message to Facebook triggers the integration in Oracle Integration.</td>
</tr>
<tr>
<td>2</td>
<td>The integration triggers a post operation in Facebook through the Facebook connection.</td>
</tr>
<tr>
<td>3</td>
<td>A message is posted to Facebook.</td>
</tr>
<tr>
<td>4</td>
<td>Facebook sends a response to the integration through the Facebook connection.</td>
</tr>
<tr>
<td>5</td>
<td>The integration maps the Facebook response to Oracle Enterprise Performance Management Cloud to update task status.</td>
</tr>
<tr>
<td>6</td>
<td>The integration sends the task status update to Close Manager in Oracle Enterprise Performance Management Cloud.</td>
</tr>
</tbody>
</table>

Integration in Oracle Integration

Create an App Driven Orchestration in Oracle Integration.

Add the Oracle Enterprise Performance Management Cloud connection you created in Oracle Integration as the trigger and configure the connection in the integration:

- **Close Manager Connection** is the connection to the application for which you want to automate tasks. You created this connection in Close Manager.
- **Close Manager Integration Type** is the integration you created in Close Manager to connect to your application. In the example, this application is Facebook.
Configure the mapping from Oracle Enterprise Performance Management Cloud to Facebook:

- Map the message parameter from Close Manager to Facebook.

Add the Oracle Enterprise Performance Management Cloud connection you created in Oracle Integration as an invoke to send task status back to Close Manager:

- In Resource, select Close Manager Operations.
- In Operation, select Update Task Status for Process Automation.
Configure the mapping from Facebook to Oracle Enterprise Performance Management Cloud to update task status:

- Make sure you map the `taskId`. This is very important to update the task status back to Close Manager.
- Make sure you indicate the state of the `taskStatus`. Valid values are: `success`, `fail`, `abort`, `warning`.
- Also specify the message to send back to Close Manager. In this example, the message is "message posted".
Enable tracking

- When editing the integration, select Tracking from the menu in the upper right corner and track the taskId and IntegrationCode fields for debugging. You can also add fields from taskParameters if desired.

Event Monitoring Integration Pattern and Use Case

Use Close Manager with Oracle Integration to monitor events in another application that resides on-premise or on the Cloud. For example, whenever a General Ledger
period closes in Oracle E-Business Suite, you want to retrieve specific data and send it to Close Manager.

**Integration Pattern**

Create an orchestrated integration in Oracle Integration.

Design the integration so that:

- The application from which the event is triggered is the trigger.
- The Enterprise Performance Management connection is an invoke to send notification of the event back to Close Manager.

**Use Case: Monitor Events in Other Applications**

For example, build an integration in Oracle Integration with an Oracle E-Business Suite connection and an Enterprise Performance Management connection. Whenever a General Ledger Period closes in Oracle E-Business Suite, the integration is triggered and data is sent back to Close Manager.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A General Ledger Period closes in Oracle E-Business Suite triggering the integration in Oracle Integration.</td>
</tr>
<tr>
<td>2</td>
<td>The integration maps data and parameters from Oracle E-Business Suite to Oracle Enterprise Performance Management Cloud.</td>
</tr>
<tr>
<td>3</td>
<td>The integration sends data and parameters from Oracle E-Business Suite to Close Manager in Oracle Enterprise Performance Management Cloud.</td>
</tr>
</tbody>
</table>
Integration in Oracle Integration

Create an App Driven Orchestration in Oracle Integration.

Configure the other application parameters in the integration. For example, in Oracle E-Business Suite:
Configure the mapping in the integration:

- Ensure you map the **Event Name** to the event name in Close Manager. This is needed for Close Manager to identify the event.
- Map all parameters in the application to the parameter array in Close Manager so that all required event data is sent back to Close Manager.

Configure the Oracle Enterprise Performance Management Cloud connection in the integration:

- Ensure the **Operation** is **Update Task Status for Event Monitoring**
• **Close Manager Connection** and **Close Manager Integration Type** are the connections and integrations you configured in Close Manager.

Enable tracking

• When editing the integration, select **Tracking** from the menu in the upper right corner and track the **EventKey** and **EventName** fields for debugging.

**Business Identifiers For Tracking**

**At a Glance: Workflow to Integrate with Oracle Enterprise Performance Management Cloud**

Follow a simple workflow to create a connection with an adapter and include the connection in an integration in Oracle Integration.
This table lists the workflow steps for adapter tasks and overall integration tasks, and provides links to instructions for each step.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>In Oracle Enterprise Performance Management Cloud, configure Close Manager for your integration.</td>
<td><strong>Prerequisites for Creating a Connection</strong>&lt;br&gt;Identify:&lt;br&gt;• Oracle Integration URL and administrator user name and password with which to connect&lt;br&gt;• Oracle Enterprise Performance Management Cloud URL and port number, and administrator user name and password with which to connect</td>
</tr>
<tr>
<td>2.</td>
<td>Design your integration.</td>
<td>Identify the type of integration you want to create: process automation or event monitoring.&lt;br&gt;• <strong>Process Automation Integration Pattern and Use Case</strong>&lt;br&gt;• <strong>Event Monitoring Integration Pattern and Use Case</strong></td>
</tr>
<tr>
<td>3.</td>
<td>In Oracle Integration, create connections for applications that you want to integrate.</td>
<td>• In the navigation pane in Oracle Integration page, click <strong>Integrations</strong>, click the &lt; arrow next to <strong>Monitoring</strong>, click <strong>Designer</strong>, then click <strong>Connections</strong>, then <strong>Create</strong>.&lt;br&gt;• <strong>Create a Connection to Oracle Enterprise Performance Management Cloud and Close Manager</strong></td>
</tr>
<tr>
<td>4.</td>
<td>In Oracle Integration, create your integration.</td>
<td>• In the navigation pane in Oracle Integration page, click <strong>Integrations</strong>, click the &lt; arrow next to <strong>Monitoring</strong>, click <strong>Designer</strong>, then click <strong>Integrations</strong>, then <strong>Create</strong>, and select <strong>App Driven Orchestration</strong>.</td>
</tr>
<tr>
<td>5.</td>
<td>In Oracle Integration, activate your integration.</td>
<td>On the Oracle Integration home page, click <strong>Integrations</strong>.&lt;br&gt;• In the Integrations list, locate the integration you want to activate and go to the far right end. Click the icon to activate the integration.</td>
</tr>
<tr>
<td>6.</td>
<td>In Oracle Enterprise Performance Management Cloud, in Close Manager, check that the integration is enabled.</td>
<td>In Close Manager, select <strong>Manage Integrations</strong>.</td>
</tr>
<tr>
<td>Step</td>
<td>Description</td>
<td>More Information</td>
</tr>
<tr>
<td>------</td>
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</tr>
</tbody>
</table>
| 7.   | In Oracle Enterprise Performance Management Cloud, in Close Manager, create a schedule and task. | 1. In Close Manager, select Manage Integrations.  
2. Select Manage Schedules, and create a new schedule.  
3. Create a new task and add it to the schedule.  
4. Trigger the integration in Oracle Integration:   
   • For process automation:   
     – Open the schedule and trigger the task that triggers the integration in Oracle Integration   
   • For event monitoring:   
     a. Open the schedule.   
     b. In the application for which you want to monitor the event, trigger the event.   
     c. Wait for the task to be completed. |
| 8    | In Oracle Integration, monitor the integration on the dashboard. | In the navigation pane in Oracle Integration, click Integrations, click the < arrow next to Designer. Click Monitoring, then click Dashboard. |
| 9    | Debug and troubleshoot your integration. | View errors and activity stream:  
1. On the Oracle Integration home page, click Integrations.  
2. Click Monitoring, then click Tracking.  
3. Click the , and select View Errors to view any errors, or View Activity Stream to view payload details.  
View detailed logs:  
1. Click Monitoring, then click Dashboards  
2. Click Download Diagnostic Logs. |
Create an Oracle Enterprise Performance Management Cloud Adapter Connection

A connection is based on an adapter. You define connections to the specific cloud applications that you want to integrate.

Topics:
• Prerequisites for Creating a Connection
• Create a Connection to Oracle Enterprise Performance Management Cloud and Close Manager

Prerequisites for Creating a Connection

You must satisfy the following prerequisites to create a connection with the Oracle Enterprise Performance Management Cloud Adapter

Topics:
• Configure Close Manager to Work with Oracle Integration
• Upload an SSL Certificate

Configure Close Manager to Work with Oracle Integration

To create connections in Oracle Integration, you need to configure Close Manager to work with Oracle Integration.

For detailed instructions, see the Oracle Enterprise Performance Management Cloud documentation Creating Custom Close Manager Integrations. Here’s a summary:

Close Manager Configuration Summary

In Oracle Enterprise Performance Management Cloud, in Close Manager:

1. Create a Connection. In Close Manager, select Manage Integrations, Manage Connections, then New.
   • Make sure the following fields are checked:
     – Enabled
     – Cloud

2. Create an integration for the connection. In Close Manager, select Manage Integrations, New Integration, and select Process Automation or Event Monitoring as the type.
   • For Parameters, specify the minimum required parameters for Close Calendar. These parameters are generally a subset of the parameters defined in the Oracle Integration integration.
For example:

– To post a message to Facebook, you can create a single parameter of type text named `message`.

– To monitor an Oracle E-Business Suite Period Close task, you can specify a parameter with the name `Period Name`.

It’s possible to define no parameters at all in Close Calendar, and do it all in the Oracle Integration integration.

3. **Create a new task type.** In Close Manager, select Manage Task Types, New Task Type.

   Make sure you select the integration you just created in Close Manager in step 2.

4. **Create a connection to Oracle Integration.** In Close Manager, select Manage Integrations, Manage Connections, Integration Cloud Connection.

   - Specify the connection URL to connect to Oracle Integration. For example: `http://myhost.example.com:7003`
   - Specify the user name and password of the service administrator of Oracle Integration.

**Upload an SSL Certificate**

Certificates are used to validate outbound SSL connections. If you make an SSL connection in which the root certificate does not exist in Oracle Integration, an exception is thrown. In that case, you must upload the appropriate certificate. A certificate enables Oracle Integration to connect with external services. If the external endpoint requires a specific certificate, request the certificate and then upload it into Oracle Integration.

To upload an SSL certificate:

1. In the navigation pane, click **Integrations**, then click the `< arrow next to Designer**.

2. Click **Settings > Certificates**.

   All certificates currently uploaded to the trust store are displayed in the Certificates dialog. The **Filter By > Type** list displays the following details:

   - **Preinstalled**: Displays the certificates automatically installed in Oracle Integration. These certificates cannot be deleted.
   - **Uploaded**: Displays the certificates uploaded by individual users. These certificates can be deleted and updated.

   You can also search for certificates in the **Search** field. The search results are limited to a maximum of ten records sorted by name for performance and usability reasons. To ensure that your search results are more granular, enter as much of the certificate name as possible.

3. Click **Upload** at the top of the page.

4. In the Upload Certificate dialog box, select the certificate type. Each certificate type enables Oracle Integration to connect with external services.

   - **Trust Certificate**: Use this option to upload a trust certificate.
     - Enter a unique alias for the certificate.
b. Click **Browse**, then select the trust file (for example, `.cer` or `.crt`) to upload.

- **Message Protection Certificate**: Use this option to upload a keystore certificate with SAML token support. Create, read, update, and delete (CRUD) operations are supported on this type of certificate.
  a. Enter a unique alias for the certificate.
  b. Click **Browse**, then select the certificate file (`.cer` or `.crt`) to upload.

- **Identity Certificate**: Use this option to upload a certificate for two-way SSL communication.
  a. Click **Browse**, then select the keystore file (`.jks`) to upload.
  b. Enter the password of the keystore being imported.
  c. Enter the comma-separated list of aliases from the keystore being imported.
  d. Enter the comma-separated list of passwords corresponding to key aliases.
  e. If you want to display the passwords in clear text, select **Show Key Password(s)**. This enables you to ensure that you are correctly entering a list of keystore passwords.

5. Click **Upload**.

6. Click the certificate name to view details such as the subject of the certificate, the issuer of the certificate, the date the certificate was issued, and the date the certificate expires.

---

**Create a Connection to Oracle Enterprise Performance Management Cloud and Close Manager**

The first step in creating an integration is to create the connections to the applications with which you want to share data. Create a connection to Oracle Enterprise Performance Management Cloud so that you can include it in your integration.

**What you need:**

- Complete the steps indicated in [Prerequisites for Creating a Connection](#)
- Connection URL: URL that you use to connect to Close Manager in Oracle Enterprise Performance Management Cloud. For example: `http://myhost.example.com:9000`
- User name and password to connect to Oracle Enterprise Performance Management Cloud. This user account must have administrative privileges in Oracle Enterprise Performance Management Cloud.

1. In the navigation pane in Oracle Integration page, click **Integrations**, click the `<` arrow next to **Monitoring**, click **Designer**, then click **Connections**.
2. Click **Create**.
3. Search for **Oracle Enterprise Performance Management Cloud**, then select it.
4. Enter the information to describe the connection, then click **Create**.
• **Name**: Enter a meaningful name to help others find your connection when they begin to create their own integrations. If you will be creating connections for process automation or event monitoring, you will need separate connections to Oracle Enterprise Performance Management Cloud for each type.

• **Identifier**: Make sure the name does not contain spaces.

• **Role**: Choose both Trigger and Invoke. For process automation, your connection needs to be both **Trigger** and **Invoke**. For event monitoring, your connection can be **Invoke**.

5. In **Email Address**, enter the email address to receive email notifications when problems occur.

6. Click **Configure Connectivity**, and enter URL that you use to connect to Oracle Enterprise Performance Management Cloud. For example: http://myhost.example.com:9000.

7. Click **Configure Security**, and enter the user name and password to connect to Oracle Enterprise Performance Management Cloud. This user account must have administrative privileges in Oracle Enterprise Performance Management Cloud. The completed configuration looks similar to the following. Your service type will be different depending on what you have selected: Financial Consolidation and Close or Tax Reporting.
8. Click **Test**.

   If the test is not successful, you will not be able to add the connection to your integration. If errors are displayed, check your connection information.

9. Click **Save**.

   You should now be able to see your new connection with a green check mark next to it. The connection is ready to use in an integration.

   For information on creating an integration with your new connection and completing configuration values, refer to:
   - Process Automation Integration Pattern and Use Case
   - Event Monitoring Integration Pattern and Use Case
   - At a Glance: Workflow to Integrate with Oracle Enterprise Performance Management Cloud
Find More Information About Adapters and Integrations

Get more detailed information on available adapters and on creating and monitoring integrations.

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<tr>
<th>Description</th>
<th>More Information</th>
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<tbody>
<tr>
<td>More information about available adapters</td>
<td>Adapters</td>
</tr>
<tr>
<td>More information to create and monitor integrations</td>
<td>Using IntegrationsUsing Integrations in Oracle Integration</td>
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</tbody>
</table>