Oracle® Cloud

Using the Oracle Policy Automation Adapter with Oracle Integration
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Preface

This guide describes how to configure the Oracle Policy Automation 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 Policy Automation 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:
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>
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</table>
Understand the Oracle Policy Automation Adapter

Learn about using the Oracle Policy Automation Adapter as a connection in integrations and review the typical workflow for integration tasks.

Topics:
- Oracle Policy Automation Adapter Capabilities
- What Application Version Is Supported?
- Oracle Policy Automation Adapter Use Cases
- Workflow to Create and Add an Oracle Policy Automation Adapter Connection to an Integration

Oracle Policy Automation Adapter Capabilities

Use the Oracle Policy Automation Adapter in an integration to send data from any Cloud or on-premise application to Oracle Policy Automation for complex decision-making.

Oracle Policy Automation can be used for regulated industries such as public sector, financial services, medical devices, and retail, for human resources decision-making, or anywhere policy based decisions need to be integrated.

Send Data from any Cloud or On-premise Application to Oracle Policy Automation

Send data from any Cloud or on-premise application to Oracle Policy Automation for complex decision-making and get the results back. Any application from which data can be extracted with Oracle Integration can be connected to Oracle Policy Automation.

The Oracle Policy Automation Adapter can be added to an integration as an Invoke connection. The application that sends the data to Oracle Policy Automation is the trigger of the integration.
Use OAuth to Secure Communications

Use OAuth to secure communications between Oracle Integration and Oracle Policy Automation. You can also choose to have no security policy if desired.

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

Oracle Policy Automation Adapter Use Cases

The Oracle Policy Automation Adapter can be used in different scenarios to incorporate Oracle Policy Automation decision logic into any enterprise application.

Use Oracle Policy Automation in an integration to:

- Determine actions to take based on types of incidents in Oracle Service Cloud.
  - For example, when an Oracle Service Cloud incident is created for a medical device manufacturer, an integration can be triggered to use Oracle Policy Automation to determine what to do with a particular type of incident. Oracle Policy Automation sends a response and the integration performs any necessary actions such as saving the decision, invoking another application, or pushing data to multiple applications.
- Auto-triage incidents to ensure service-level agreements are met.
- Calculate benefit payments using data stored in a legacy system.
- Recalculate leave entitlements when regulations changes.
- Calculate complex sales commissions.

Workflow to Create and Add an Oracle Policy Automation Adapter Connection to an Integration

Create a connection with the Oracle Policy Automation Adapter and include the connection in an integration in Oracle Integration.
This table lists the workflow steps for both adapter tasks and overall integration tasks, and provides links to instructions for each step.

See the Oracle Policy Automation documentation for additional details.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>More Information</th>
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<tbody>
<tr>
<td>1.</td>
<td>In Policy Automation Hub, add an API client with the Determinations API role.</td>
<td>See the Oracle Policy Automation documentation Add a new API client for instructions. You will need the client ID and secret to configure your Oracle Policy Automation Adapter connection in Oracle Integration.</td>
</tr>
<tr>
<td>2.</td>
<td>In Policy Modeling, author and deploy the policy model.</td>
<td>In Policy Modeling: 1. Author the policy model. See the Oracle Policy Automation documentation for details and ensure that names are defined for any attributes, entities and relationships in the policy model that you want to be available for mapping in Oracle Integration. 2. Deploy the policy model. See the Oracle Policy Automation documentation Deploy a project snapshot.</td>
</tr>
<tr>
<td>3.</td>
<td>In Policy Automation Hub, activate your policy model as a web service.</td>
<td>Oracle Policy Automation policy models that you use in the integration must be deployed as a web service. See the Oracle Policy Automation documentation Activate a project snapshot for details.</td>
</tr>
<tr>
<td>4.</td>
<td>In Oracle Integration, create and configure a connection to the application that will send data to Oracle Policy Automation. Also create and configure the connection to Oracle Policy Automation.</td>
<td>1. In the navigation pane in Oracle Integration page, click Integrations, click the &lt; arrow next to Monitoring, click Designer, then click Connections, then Create. 2. Select the application that will send data to Oracle Policy Automation and configure the connection for that application. This is a trigger connection. 3. Create another connection and select Oracle Policy Automation Adapter. This is an invoke connection. Follow configuration instructions in the Oracle Policy Automation documentation Create a Connection to a Policy Automation Site in Oracle Integration Cloud.</td>
</tr>
<tr>
<td>5.</td>
<td>In Oracle Integration, create your integration.</td>
<td>1. In the navigation pane in Oracle Integration page, click Integrations, click the &lt; arrow next to Monitoring, click Designer, then click Integrations, then Create, and select App Driven Orchestration. 2. Add the trigger connection to your integration for the application that will send data to Oracle Policy Automation and configure it. 3. Add the invoke connection to Oracle Policy Automation to your integration and configure it. Follow configuration instructions in the Oracle Policy Automation documentation Create an Endpoint to Invoke a Policy Model in Integration Cloud. 4. Map data. Follow configuration instructions in the Oracle Policy Automation documentation Map Request and Response Data to and from a Policy Model in Integration Cloud.</td>
</tr>
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### Step Description

#### 6. In Oracle Integration, activate your integration.

- On the Oracle Integration home page, click **Integrations**.
  - 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.

   ![Configured. Switch to activate.]

   For additional details, see Activating Integrations of *Using Integrations in Oracle Integration*.

#### 7. Trigger your integration by entering data in the application that connects to Oracle Policy Automation.

#### 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**.
  - For additional details, see Monitoring Integrations of *Using Integrations in Oracle Integration*.

#### 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**.

   For additional details, see: Managing Errors of *Using Integrations in Oracle Integration*, Assigning Business Identifiers for Tracking Fields in Messages, and Managing Business Identifiers for Tracking Fields in Messages of *Using Integrations in Oracle Integration*. 

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Create an Oracle Policy Automation 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
• Configure the Oracle Policy Automation Adapter Connection

Prerequisites for Creating a Connection

You must satisfy the following prerequisites to create a connection with the Oracle Policy Automation Adapter:

• Oracle Policy Automation policy models that you use in the integration must be deployed as a web service. See the Oracle Policy Automation documentation Activate a project snapshot for details.

• The Oracle Policy Automation Adapter allows you to secure communication between Oracle Integration and Oracle Policy Automation using OAuth. If you will be enabling security, you need to add an API client with the Determinations API role in Policy Automation Hub. See the Oracle Policy Automation documentation Add a new API client for instructions. You will need the client ID and secret to configure your Oracle Policy Automation connection in Oracle Integration.

Configure the Oracle Policy Automation Adapter Connection

Create and configure the invoke connection to your Oracle Policy Automation site.

1. Create the connection.
   a. In the navigation pane in Oracle Integration page, click Integrations, click the < arrow next to Monitoring, click Designer, then click Connections, then Create.
   b. Find and select Oracle Policy Automation Adapter.
2. Configure the connection. Follow configuration instructions in the Oracle Policy Automation documentation Create a Connection to a Policy Automation Site in Oracle Integration Cloud.
Add the Oracle Policy Automation Adapter Connection to an Integration

Add the Oracle Policy Automation Adapter as an invoke connection in your integration and configure it.

Follow configuration instructions in the Oracle Policy Automation documentation of Create an Endpoint to Invoke a Policy Model in Integration Cloud.