Oracle® Cloud

Using the Adobe eSign Adapter with Oracle Integration
Contents

Preface

Audience iv
Documentation Accessibility iv
Related Resources iv
Conventions v

1  Understand the Adobe eSign Adapter

Adobe eSign Adapter Capabilities 1-1
What Application Version Is Supported? 1-1
About Adobe eSign Adapter Use Cases 1-1
Workflow to Create and Add an Adobe eSign Adapter Connection to an Integration 1-2

2  Create an Adobe eSign Adapter Connection

Prerequisites for Creating a Connection 2-1
Create a Connection 2-2
  Add a Contact Email 2-3
  Configure Connection Security 2-3
  Test the Connection 2-4
Upload an SSL Certificate 2-4

3  Add the Adobe eSign Adapter Connection to an Integration

Basic Information Page 3-1
Invoke Operations Page 3-2
Invoke Query Page 3-2
Summary Page 3-3

4  Troubleshoot the Adobe eSign Adapter

Specify the Port Number with the Authorized Redirect URL 4-1
This guide describes how to configure the Adobe eSign 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.

**Audience**
This guide is intended for developers who want to use the Adobe eSign Adapter in integrations in Oracle Integration.

**Documentation Accessibility**

**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](http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info) or visit [http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs](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</td>
</tr>
<tr>
<td></td>
<td>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</td>
</tr>
<tr>
<td></td>
<td>for which you supply particular values.</td>
</tr>
<tr>
<td><strong>monospace</strong></td>
<td>Monospace type indicates commands within a paragraph, URLs, code</td>
</tr>
<tr>
<td></td>
<td>in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Understand the Adobe eSign Adapter

Review the following conceptual topics to learn about the Adobe eSign Adapter and how to use it as a connection in Oracle Integration integrations. A typical workflow of adapter and integration tasks is also provided.

Topics:

• Adobe eSign Adapter Capabilities
• What Application Version Is Supported?
• About Adobe eSign Adapter Use Cases
• Workflow to Create and Add an Adobe eSign Adapter Connection to an Integration

Adobe eSign Adapter Capabilities

Use the Adobe eSign Adapter to prepare and send documents to Adobe eSign for review and approval.

The Adobe eSign Adapter integrates your applications with Adobe Document Cloud. You can replace your paper and ink signature processes with fully automated electronic signature workflows. Use a browser or mobile device to send, sign, track, and manage the review and signature process.

The Adobe eSign Adapter is one of many predefined adapters included with Oracle Integration. You can configure the Adobe eSign Adapter adapter as a connection in an integration in Oracle Integration.

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

About Adobe eSign Adapter Use Cases

The Adobe eSign Adapter can be used in scenarios such as the following.

• Select the Send Agreement for Signature operation in one integration to send an agreement for review and signing. Select and configure the REST Adapter as the trigger. Appropriate data mapping between the REST Adapter and Adobe eSign Adapter is performed in the mapper. Invoke the integration endpoint with a REST client to send a POST request to the REST Adapter. Appropriate data mapping between the REST Adapter and Adobe eSign Adapter is performed in the mapper. The Adobe eSign Adapter sends the data as a payload while invoking the configured operation in Adobe eSign.
• Select the Get Agreement Form Data operation in the other integration to retrieve the data entered by a user when they completed the interactive agreement form fields and signed the agreement. Appropriate data mapping between the REST Adapter and Adobe eSign Adapter is performed in the mapper. The REST Adapter sends a GET request to the Adobe eSign Adapter, which returns the form data and the signed agreement.

Workflow to Create and Add an Adobe eSign Adapter Connection to an Integration

Follow a workflow to create a connection with an adapter and include the connection in an integration in Oracle Integration.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Create the adapter connections for the applications you want to integrate. The connections can be reused in multiple integrations and are typically created by the administrator.</td>
<td>Create an Adobe eSign Adapter Connection</td>
</tr>
<tr>
<td>2</td>
<td>Create the integration. When you do this, you add trigger and invoke connections to the integration.</td>
<td>Create Integrations and Add the Adobe eSign Adapter Connection to an Integration</td>
</tr>
<tr>
<td>3</td>
<td>Map data between the trigger connection data structure and the invoke connection data structure.</td>
<td>Map Data of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>4</td>
<td>(Optional) Create lookups that map the different values used by those applications to identify the same type of object (such as gender codes or country codes).</td>
<td>Manage Lookups of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>5</td>
<td>Activate the integration.</td>
<td>Manage Integrations of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>6</td>
<td>Monitor the integration on the dashboard.</td>
<td>Monitor Integrations of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>7</td>
<td>Track payload fields in messages during runtime.</td>
<td>Assign Business Identifiers for Tracking Fields in Messages and Manage Business Identifiers for Tracking Fields in Messages of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>8</td>
<td>Manage errors at the integration level, connection level, or specific integration instance level.</td>
<td>Manage Errors of Using Integrations in Oracle Integration</td>
</tr>
</tbody>
</table>
Create an Adobe eSign 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
- Upload an SSL Certificate

Prerequisites for Creating a Connection

These are the prerequisites for creating a connection with the Adobe eSign Adapter.

Note:

To create a connection, a trusted public certificate is required. Typically, the certificate is included with Oracle Integration. If you cannot locate the public certificate, contact your administrator. If you download a public certificate, rename the file extension to .crt. See Upload an SSL Certificate.

2. Log in to your Adobe Document Cloud Account.
3. Click your user name in the upper right corner and select My Profile.
4. Expand Adobe DC eSign API in the left pane and select API Applications.
5. Create a new application:
   - Click the Create icon in the upper right corner.
   - Enter a name and a display name for your application.
   - Select PARTNER.
   - Click Save.
6. Select the application you created in step 5.
7. Click Configure OAuth for Application.
8. Enter https://{ICS_HOST}:{ICS_SSL_PORT}/icsapis/agent/oauth/callback in the Redirect URI field.
9. Enable the user_login, agreement_read, agreement_write, agreement_send, and library_read scopes.

10. Select the account modifier for the user_login, agreement_read, agreement_write, agreement_send, and library_read scopes.

11. Copy or record the values in the Client ID and Client Secret fields. These values are required to create the connection in Oracle Integration.

12. Click Save.

Create a Connection

The first step in creating an integration is to create the connections to the applications with which you want to share data.

1. In the navigation pane, click Integrations, then click Connections.

2. Click Create.

Note:

You can also create a connection in the integration canvas of:

- An orchestrated integration (See Define Inbound Triggers and Outbound Invokes.)
- A basic routing integration (See Add a Trigger (Source) Connection.)

The Create Connection — Select Adapter dialog is displayed.

3. Select an adapter from the dialog. You can also search for the type of adapter to use by entering a partial or full name in the Search field, and clicking Search.

The Create New Connection dialog is displayed.

4. Enter the information to describe the connection.

- Enter a meaningful name to help others find your connection when they begin to create their own integrations. The name you enter is automatically added in capital letters to the Identifier field. If you modify the identifier name, do not include a blank space (for example, Sales Opportunity).

- Select the role (direction) in which to use this connection (trigger, invoke, or both). Only the roles supported by this adapter are displayed for selection. When you select a role, only the connection properties and security policies appropriate to that role are displayed on the Connections page. If you select an adapter that supports both invoke and trigger, but select only one of those roles, then try to drag the adapter into the section you did not select, you receive an error (for example, configure an Oracle Service Cloud (RightNow) Adapter as only an invoke, but drag the adapter to the trigger section).

- Enter an optional description of the connection.
5. Click **Create**.

Your connection is created and you are now ready to configure connection details, such as email contact, connection properties, security policies, connection login credentials, and (for certain connections) agent group.

### Add a Contact Email

From the Connection Administrator section of the connection, you can add a contact email address for notifications.

1. In the **Email Address** field, enter an email address to receive email notifications when problems occur.
2. In the upper right corner, click **Save**.

### Configure Connection Security

Enter connection information so your application can process requests.

1. Click **Configure Credentials**.

   The Credentials dialog is displayed. The **Security Policy** field displays **AdobeESign OAuth Authorization Code Credentials**. This value cannot be changed. This policy supports the OAuth 2.0 framework and three-legged authentication.

2. Enter the client ID and client secret values you recorded when you created your Adobe Document Cloud Account application.

   See **Prerequisites for Creating a Connection**.

3. Enter the scope values in the **Scope** field.

   A scope is a list of authorization permissions for the target application.
4. Click **Provide Consent**.
5. If required, enter your Adobe Document Cloud Account user name and password.
6. Click **Log In**.
7. Return to Oracle Integration to test and save the security credentials.

**Test the Connection**

Test your connection to ensure that it is successfully configured.

1. In the upper right corner of the page, click **Test**.
2. If your adapter connection uses a WSDL, you are prompted to select the type of connection testing to perform:
   - **Validate and Test**: Performs a full validation of the WSDL, including processing of the imported schemas and WSDLs. Complete validation can take several minutes depending on the number of imported schemas and WSDLs. No requests are sent to the operations exposed in the WSDL.
   - **Test**: Connects to the WSDL URL and performs a syntax check on the WSDL. No requests are sent to the operations exposed in the WSDL.

   If successful, the following message is displayed and the progress indicator shows 100%.
   
   Connection **connection_name** was tested successfully.

3. If your connection was unsuccessful, an error message is displayed with details. Verify that the configuration details you entered are correct.
4. When complete, click **Save**, then click **Close**.

**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.
     a. 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.
Add the Adobe eSign Adapter Connection to an Integration

When you drag the Adobe eSign Adapter into the invoke area of an integration, the Adapter Endpoint Configuration Wizard appears. This wizard guides you through configuration of the Adobe eSign Adapter endpoint properties.

These topics describe the wizard pages that guide you through configuration of the Adobe eSign Adapter as an invoke in an integration. The Adobe eSign Adapter cannot be used as a trigger in an integration.

Topics:
- Basic Information Page
- Invoke Operations Page
- Invoke Query Page
- Summary Page

Basic Information Page

You can enter a name and description on the Basic Info page of each trigger and invoke adapter in your integration.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
</table>
| What do you want to call your endpoint? | Provide a meaningful name so that others can understand the responsibilities of this connection. You can include English alphabetic characters, numbers, underscores, and dashes in the name. You cannot include the following:  
  - Blank spaces (for example, My Inbound Connection)  
  - Special characters (for example, #;83& or righ(t)now4)  
  - Multibyte characters |
| What does this endpoint do? | Enter an optional description of the connection's responsibilities. For example: This connection receives an inbound request to synchronize account information with the cloud application. |
Invoke Operations Page

Enter the Adobe eSign Adapter invoke operation values for your integration.

The table provides definitions for the Adobe eSign API operations that can be performed on the invoke connection. These operations are listed on the Adobe eSign Adapter Operations page.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send Agreement for Signature</td>
<td>Creates an agreement and then sends it for a signature.</td>
</tr>
<tr>
<td>Get Agreement List for User</td>
<td>Returns a list of agreements for a specific user.</td>
</tr>
<tr>
<td>Get Agreement Status</td>
<td>Returns the latest status of a specific agreement.</td>
</tr>
<tr>
<td>Get Document Ids of Agreement</td>
<td>Returns the IDs of the primary and supporting documents for a specific agreement.</td>
</tr>
<tr>
<td>Get Document URL</td>
<td>Returns the URL of a specific document.</td>
</tr>
<tr>
<td>Cancel an Agreement</td>
<td>Cancels an agreement and changes its status to cancel.</td>
</tr>
<tr>
<td>Delete an Agreement</td>
<td>Deletes all documents associated with an agreement.</td>
</tr>
<tr>
<td>Get document of an agreement</td>
<td>Returns the file stream of a document of an agreement.</td>
</tr>
<tr>
<td>Get information of the documents associated with an agreement</td>
<td>Returns a single, combined PDF document for the documents associated with an agreement.</td>
</tr>
<tr>
<td>Get agreement form data</td>
<td>Returns the data entered by the user into interactive form fields when they signed the agreement.</td>
</tr>
<tr>
<td>Get the audit trail of an agreement</td>
<td>Returns the audit trail of an agreement identified by the agreement ID.</td>
</tr>
<tr>
<td>Upload a document</td>
<td>Uploads a document and obtains returns the ID of the document.</td>
</tr>
<tr>
<td>Get User Workflows</td>
<td>Returns workflows for a user.</td>
</tr>
<tr>
<td>Get details of a Workflow</td>
<td>Returns the details of a workflow.</td>
</tr>
<tr>
<td>Create and Send an agreement out for signature</td>
<td>Creates an agreement, sends it for signatures, and returns the agreement ID in the response to the client.</td>
</tr>
<tr>
<td>Send Agreement for signature to multiple recipients</td>
<td>Sends an agreement to multiple recipients for their signature. Each recipient is sent a copy of the agreement for review and authorization.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select Operation</td>
<td>Select the API operation to perform.</td>
</tr>
</tbody>
</table>

Invoke Query Page

Enter the Adobe eSign Adapter query parameters.

You can configure the request query parameters on the Adobe eSign Adapter Request Parameters page. This page is displayed when you select an operation that includes request parameters. The parameters that are displayed are dependent on the operation selected. For example, the parameters in the table are available for the operation `Get agreement list of the user`. 
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>query</td>
<td>Identifies the search query string.</td>
</tr>
<tr>
<td>externalNamespace</td>
<td>Identifies the external namespace for which information should be returned.</td>
</tr>
<tr>
<td>externalID</td>
<td>Identifies the external ID for which information should be returned.</td>
</tr>
<tr>
<td>externalGroup</td>
<td>Identifies the external group for which information should be returned.</td>
</tr>
</tbody>
</table>

### Summary Page

You can review the specified adapter configuration values on the Summary page.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summary</td>
<td>Displays a summary of the configuration values you defined on previous pages of the wizard.</td>
</tr>
<tr>
<td></td>
<td>The information that is displayed can vary by adapter. For some adapters, the selected business objects and operation name are displayed. For adapters for which a generated XSD file is provided, click the XSD link to view the read-only version of the file.</td>
</tr>
<tr>
<td></td>
<td>To return to a previous page to update any values, click the appropriate tab in the left panel or click <strong>Back</strong>. Click <strong>Cancel</strong> to cancel your configuration details.</td>
</tr>
</tbody>
</table>
Troubleshoot the Adobe eSign Adapter

Review the following topics to learn about troubleshooting issues with the Adobe eSign Adapter.

Topics:

- Specify the Port Number with the Authorized Redirect URL

Additional integration troubleshooting information is provided. See Troubleshoot Oracle Integration in Using Integrations in Oracle Integration.

Specify the Port Number with the Authorized Redirect URL

When configuring the authorized redirect URL, ensure that you specify the port number. For example:

https://host:443/icsapis/agent/oauth/callback

Not specifying the port number in the URL results in an error when configuring the adapter on the Connections page:

"Authorization Failed: String index out of range: -12"