

Oracle® Cloud

Using the SAP Ariba Adapter

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This guide describes how to configure and add the SAP Ariba Adapter to an integration in Oracle Integration Cloud Service.

Oracle Cloud Using the SAP Ariba Adapter, Release 16.3

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Preface

Using the SAP Ariba Adapter describes how to configure the SAP Ariba Adapter as a connection in an integration in Oracle Integration Cloud Service.

Topics:

- [About the SAP Ariba Adapter](#)
- [Related Resources](#)
- [Conventions](#)

Audience

Using the SAP Ariba Adapter is intended for developers who want to use the SAP Ariba Adapter in integrations in Oracle Integration Cloud Service.

Related Resources

For more information, see these Oracle resources:

- Oracle Cloud
<http://cloud.oracle.com>
- *Using Oracle Integration Cloud Service*
- *Using the Oracle Mapper*
- *Getting Started with Oracle Cloud*
- *Managing and Monitoring Oracle Cloud*

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.

Convention	Meaning
<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.

Getting Started with the SAP Ariba Adapter

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

Topics

- [About the SAP Ariba Adapter](#)
- [What Application Version Does the SAP Ariba Adapter Support?](#)
- [About Oracle Integration Cloud Service](#)
- [About Oracle Integration Cloud Service Connections](#)
- [About Oracle Integration Cloud Service Integrations](#)
- [SAP Ariba Adapter Use Cases](#)
- [Typical Workflow for Creating and Including an Adapter Connection in an Integration](#)

About the SAP Ariba Adapter

The SAP Ariba Adapter is a predefined adapter included with Oracle Integration Cloud Service. Use the SAP Ariba Adapter to manage your business-to-business (B2B) transactions.

SAP Ariba is a cloud-based B2B application that is used to connect buyers and sellers. The application allows sellers to manage their catalogs, bids, purchases, and invoices and provides buyers with the ability to search for suppliers, negotiate savings, procure goods and services, and track spending. SAP Ariba can improve the efficiency of your requisition to pay and catalog to cash processes. SAP Ariba integrates with your E-procurement system to provide a fast shopping experience that offers greater control over goods and services purchasing, encourages collaboration with suppliers, and ensures catalog and contract compliance. The user interface makes it easy for users to list and compare items from preferred providers at preferred prices. SAP Ariba seamlessly connects buyers and sellers with end-to-end connectivity on order fulfillment, confirmations, and shipping notices.

For information about Oracle Integration Cloud Service, connections and integrations, see:

- [About Oracle Integration Cloud Service](#)
- [About Oracle Integration Cloud Service Connections](#)
- [About Oracle Integration Cloud Service Integrations](#)

What Application Version Does the SAP Ariba Adapter Support?

The SAP Ariba Adapter is compatible with Ariba Spend Management version 15.

About Oracle Integration Cloud Service

Oracle Integration Cloud Service is a complete, secure, but lightweight integration solution that enables you to connect your applications in the cloud. It simplifies connectivity between your applications, and can connect both your applications that live in the cloud and your applications that still live on premises. Oracle Integration Cloud Service provides secure, enterprise-grade connectivity regardless of the applications you are connecting or where they reside.

Oracle Integration Cloud Service provides native connectivity to Oracle Software as a Service (SaaS) applications, such as Oracle Sales Cloud, Oracle RightNow Cloud, and so on. Oracle Integration Cloud Service *adapters* simplify connectivity by handling the underlying complexities of connecting to applications using industry-wide best practices. You only need to create a *connection* that provides minimal connectivity information for each system. Oracle Integration Cloud Service *lookups* map the different codes or terms used by the applications you are integrating to describe similar items (such as country or gender codes). Finally, the visual data mapper enables you to quickly create direct mappings between the trigger and invoke data structures. From the mapper, you can also access lookup tables and use standard XPath functions to map data between your applications.

Once you integrate your applications and activate the integrations to the runtime environment, the dashboard displays information about the running integrations so you can monitor the status and processing statistics for each integration. The dashboard measures and tracks the performance of your transactions by capturing and reporting key information, such as throughput, the number of messages processed successfully, and the number of messages that failed processing. You can also manage business identifiers that track fields in messages and manage errors by integrations, connections, or specific integration instances.

About Oracle Integration Cloud Service Connections

Connections define information about the instances of each predefined configuration you are integrating. Oracle Integration Cloud Service includes a set of predefined *adapters*, which are the types of applications on which you can base your connections, such as Oracle Sales Cloud, Oracle Eloqua Cloud, Oracle RightNow Cloud, and others. A connection is based on an adapter. A connection includes the additional information required by the adapter to communicate with a specific instance of an application (this can be referred to as metadata or as connection details). For example, to create a connection to a specific RightNow Cloud application instance, you must select the Oracle RightNow adapter and then specify the WSDL URL, security policy, and security credentials to connect to it.



[Video](#)

About Oracle Integration Cloud Service Integrations

Integrations are the main ingredient of Oracle Integration Cloud Service. An integration includes at the least a trigger (source) connection (for requests sent to Oracle Integration Cloud Service) and invoke (target) connection (for requests sent from Oracle Integration Cloud Service to the target) and the field mapping between those two connections.

When you create your integrations, you build on the [connections](#) you already created by defining how to process the data for the trigger (source) and invoke (target) connections. This can include defining the type of operations to perform on the data, the business objects and fields against which to perform those operations, required schemas, and so on. To make this easier, the most complex configuration tasks are handled by Oracle Integration Cloud Service. Once your trigger (source) and invoke (target) connections are configured, the mappers between the two are enabled so you can define how the information is transferred between the trigger (source) and invoke (target) data structures for both the request and response messages.


[Video](#)

SAP Ariba Adapter Use Cases

This use case describes how a pharmaceutical company used the SAP Ariba Adapter to simplify supply chain management, reduce order complexity, and improve the efficiency of supply operations.

- A customer makes an online purchase of a medication produced by the pharmaceutical company.
- The SAP Ariba Adapter sends the purchase request to the pharmaceutical company.
- The pharmaceutical company locates the requested medication and prepares it for shipment.
- The pharmaceutical company uses the SAP Ariba Adapter to inform the customer that their purchase has shipped and provides tracking information.
- The SAP Ariba Adapter updates the inventory information for the product ordered by the customer.

Typical Workflow for Creating and Including an Adapter Connection in an Integration

You follow a very simple workflow to create a connection with an adapter and include the connection in an integration in Oracle Integration Cloud Service.

Step	Description	More Information
1	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.	Creating an SAP Ariba Adapter Connection
2	Create the integration. When you do this, you add trigger and invoke connections to the integration.	Creating an Integration and Adding the SAP Ariba Adapter Connection to an Integration
3	Map data between the trigger connection data structure and the invoke connection data structure.	<i>Mapping Integration Cloud Service Data of Using Oracle Integration Cloud Service</i>

Step	Description	More Information
4	(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).	<i>Creating Lookups of Using Oracle Integration Cloud Service</i>
5	Activate the integration.	<i>Managing Integrations of Using Oracle Integration Cloud Service</i>
6	Monitor the integration on the dashboard.	<i>Monitoring Integration Cloud Services of Using Oracle Integration Cloud Service</i>
7	Track payload fields in messages during runtime.	<i>Assigning Business Identifiers for Tracking Fields in Messages and Managing Business Identifiers for Tracking Fields in Messages of Using Oracle Integration Cloud Service</i>
8	Manage errors at the integration level, connection level, or specific integration instance level.	<i>Managing Errors of Using Oracle Integration Cloud Service</i>

Creating an SAP Ariba Adapter Connection

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

Topics

- [Prerequisites for Creating a Connection](#)
- [Uploading an SSL Certificate](#)
- [Creating a Connection](#)
- [Editing a Connection](#)
- [Cloning a Connection](#)
- [Deleting a Connection](#)

Prerequisites for Creating a Connection

You must satisfy the following prerequisites to create a connection with the SAP Ariba Adapter:

- You must have an existing SAP Ariba user account. A user account is required to provide the credentials necessary to create the connection and integration.

Uploading 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 Cloud Service, an exception is thrown. In that case, you must upload the appropriate certificate. A certificate enables Oracle Integration Cloud Service to connect with external services. If the external endpoint requires a specific certificate, request the certificate and then upload it into Oracle Integration Cloud Service.

To upload a certificate:

1. From the Oracle Integration Cloud Service home page, click the **Administration** tab in the upper right corner.

All certificates currently uploaded to the trust store are displayed in the Certificates dialog. A navigation panel on the left side of the dialog displays the following details:

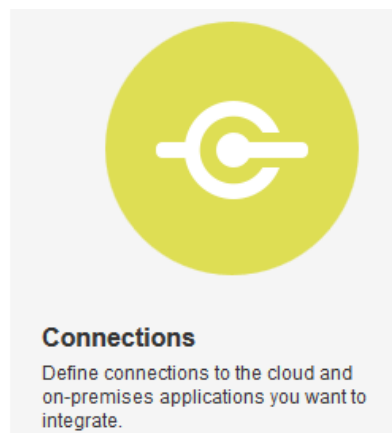
- **All:** Displays all certificates in Oracle Integration Cloud Service.
- **System:** Displays the certificates automatically included in Oracle Integration Cloud Service. These certificates cannot be deleted.

- **Uploaded:** Displays the certificates uploaded by individual users. These certificates can be deleted and updated.
2. Click **Upload Certificate** at the top of the page.
 3. In the Upload Certificate dialog box, enter a unique identifier for the certificate.
This is a name you can use to identify the certificate.
 4. Click **Browse** to locate the certificate file (.cer).
 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.

Creating 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 Integration Cloud Service toolbar, click **Designer**.
2. On the Designer Portal, click **Connections**.



3. Click **Create New Connection**.
The Create Connection — Select Adapter dialog is displayed.
4. 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 New Connection — Information dialog is displayed.
5. 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.
 - 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 RightNow Cloud Adapter as only an invoke, but drag the adapter to the trigger section).

- Enter an optional description of the connection.

6. Click **Create**.

Your connection is created and you are now ready to configure connection details, such as email contact, connection properties, security policies, and connection login credentials.

Adding 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**.

Configuring Connection Properties

Enter connection information so your application can process requests.

1. Create a connection. See [Creating a Connection](#).
2. Click **Configure Connectivity**.
3. Complete these fields:
 - a. In the **Host Name** field, enter the host name of the SAP Ariba server.

- b. In the **Application Name** field, select **Buyer** or **Supplier**.
 - c. In the **Partition (Site Name)** field, enter the name of the SAP Ariba server partition on which to execute operations.
4. Click **OK**.
5. Configure connection security. See [Configuring Connection Security](#).

Configuring Connection Security

Configure security for your SAP Ariba Adapter connection by selecting the security policy and security token.

1. Click **Configure Security**.

The Credentials dialog is displayed. The **Security Policy** field displays **Basic Authentication**. This value cannot be changed.
2. Complete these fields:
 - a. In the **Username** field, enter the user name for the SAP Ariba account.
 - b. In the **Password** field, enter the password for the SAP Ariba account.
 - c. In the **Confirm Password** field, enter the password for the SAP Ariba account.
3. Click **OK**.

Testing the Connection

Test your connection to ensure that it is successfully configured.

1. In the upper right corner of the page, click **Test**.

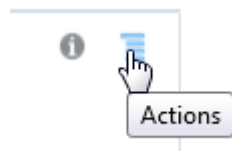
If successful, the following message is displayed and the progress indicator shows 100%.

The connection test was successful!
2. If your connection was unsuccessful, an error message is displayed with details. Verify that the configuration details you entered are correct.
3. When complete, click **Save**.

Editing a Connection

You can edit connection settings after creating a new connection.

1. In the Oracle Integration Cloud Service toolbar, click **Designer**.
2. On the Designer Portal, click **Connections**.
3. On the Connections page, select **Edit** from the connection **Actions** menu or click the connection name.



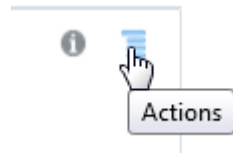
The Connection page is displayed.

4. To edit the notification email contact, change the email address in the **Email Address** field.
5. To edit the connection properties, click **Configure Connectivity**. Note that some connections do not include this button. If your connector does not include a **Configure Connectivity** button, then click the **Configure Credentials** button.

Cloning a Connection

You can clone a copy of an existing connection. It is a quick way to create a new connection.

1. In the Oracle Integration Cloud Service toolbar, click **Designer**.
2. On the Designer Portal, click **Connections**.
3. On the Connections page, select **Clone** from the connection **Actions** menu.



The Clone Connection dialog is displayed.

4. Enter the connection information.
5. Click **Clone**.
6. Click **Edit** to configure the credentials of your cloned connection. Cloning a connection does not copy the credentials.

See [Editing a Connection](#) for instructions.

Deleting a Connection

You can delete a connection from the connection menu.

1. In the Oracle Integration Cloud Service toolbar, click **Designer**.
2. On the Designer Portal, click **Connections**.
3. On the Connections page, click **Delete** from the connection **Actions** menu.



The Delete Connection dialog is displayed if the connection is not used in an integration.

4. Click **Yes** to confirm deletion.

Creating an Integration

Integrations use the adapter connections you created to your applications, and define how information is shared between those applications. You can view, export, create, import, edit, or delete integrations; create integrations to publish or subscribe to messages; add and remove request and response enrichment triggers; and create routing paths for different target endpoints in integrations. Click the following topics for more information.

Topic

- [Creating Integrations \(in *Using Oracle Integration Cloud Service*\)](#)

Adding the SAP Ariba Adapter Connection to an Integration

When you drag the SAP Ariba Adapter onto the invoke area of an integration canvas, the Adapter Endpoint Configuration Wizard appears. This wizard guides you through configuration of the SAP Ariba Adapter endpoint properties.

The following sections describe the wizard pages that guide you through configuration of the SAP Ariba Adapter as an invoke in an integration.

Topics

- [Configuring Basic Information Properties](#)
- [Configuring SAP Ariba Adapter Invoke Operations Properties](#)
- [Reviewing Configuration Values on the Summary Page](#)
- [Performing SAP Ariba Adapter Postconfiguration Tasks](#)

For more information about the SAP Ariba Adapter, see [About the SAP Ariba Adapter](#).

Configuring Basic Information Properties

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

Topics

- [What You Can Do from the Basic Info Page](#)
- [What You See on the Basic Info Page](#)

What You Can Do from the Basic Info Page

You can specify the following values on the Basic Info page. The Basic Info page is the initial wizard page that is displayed whenever you drag an adapter to the trigger (source) or invoke (target) area supported by your adapter.

- Specify a meaningful name.
- Specify a description of the responsibilities.

What You See on the Basic Info Page

The following table describes the key information on the Basic Info page.

Element	Description
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: <ul style="list-style-type: none">• 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.

Configuring SAP Ariba Adapter Invoke Operations Properties

Enter the SAP Ariba Adapter invoke operation values for your integration.

Topics

- [What You Can Do from the SAP Ariba Adapter Invoke Operations Page](#)
- [What You See on the SAP Ariba Adapter Invoke Operations Page](#)

What You Can Do from the SAP Ariba Adapter Invoke Operations Page

You identify the operation to perform in the SAP Ariba application.

What You See on the SAP Ariba Adapter Invoke Operations Page

The following table describes the key information on the SAP Ariba Adapter Operations page.

Element	Description
Ariba Solution	Identifies the SAP Ariba application type on which the operation is executed.

Element	Description
Operations	<p>Selects the API operation to perform. These are the available operations:</p> <ul style="list-style-type: none"> • Import Contract Workspace — Imports contract workspace information from an external application into the SAP Ariba application. • Create Suppliers — Imports supplier information from an external application into SAP Ariba. • Create Event — Imports event information from an external application into SAP Ariba. • Create External Request For Approval — Imports external requests for approval from an external application into SAP Ariba. • Create Remittance — Returns the amount paid to suppliers for each invoice. Select this operation when remittance information is imported from an ERP application directly into SAP Ariba. • Create Sourcing Project — Creates a sourcing project. • Create Organizations — Creates an organization. • Create External Contract Information — Returns contract information from external applications. • Create Procurement Unit — Imports procurement unit information from an external application into SAP Ariba. • Create Requisitions — Imports requisition information from an external application into SAP Ariba. • Catalog Item Search — Searches for catalog items in SAP Ariba to allow the synchronization of operations between SAP Ariba and external applications.
Description	A description of the selected API operation.

Reviewing Configuration Values on the Summary Page

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

Topics

- [What You Can Do from the Summary Page](#)
- [What You See on the Summary Page](#)

What You Can Do from the Summary Page

You can review trigger (source) or invoke (target) configuration details from the Summary page. The Summary page is the final wizard page for each adapter after you have completed your configuration.

- View the configuration details you defined for the trigger (source) or invoke (target) adapter. For example, if you have defined an inbound trigger (source) adapter with a request business object and immediate response business object, specific details about this configuration are displayed on the Summary page.

- View next steps for completing the integration.
- Click **Next Steps** to hide the Next Steps information.
- Click **Done** if you want to save your configuration details.
- Click a specific tab in the left panel or click **Back** to access a specific page to update your configuration definitions.
- Click **Cancel** to cancel your configuration details.

What You See on the Summary Page

The following table describes the key information on the Summary page.

Element	Description
Summary	<p>Displays a summary of the trigger (source) or invoke (target) configuration values you defined on previous pages of the wizard.</p> <p>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 a read-only version of the file.</p> <p>To return to a previous page to update any values, click the appropriate tab in the left panel or click Back.</p> <p>To hide the next steps information, click Next Steps.</p>

Performing SAP Ariba Adapter Postconfiguration Tasks

Complete these postconfiguration tasks after you have configured the invoke connection, mapped the data and tracking fields, and activated the integration.

- Complete these procedures in the *SAP Ariba Administration and Data Maintenance Fundamentals Guide*: Collecting Access and Security Information, Configuring an End Point, Configuring an Integration Task for Web Services, and Enabling and Disabling Configured Integration Tasks. The *Administration and Data Maintenance Fundamentals Guide* is available at <https://connect.ariba.com/AC>. An SAP Ariba user account is required to access the documentation.

Creating Mappings and Lookups in Integrations

You must map data between trigger connections and invoke connections in integrations. You can also optionally create lookups in integrations.

Topics

- Mapping Integration Cloud Service Data (in *Using Oracle Integration Cloud Service*)
- Creating Lookups (in *Using Oracle Integration Cloud Service*)

Administering Integrations

Oracle Integration Cloud Service provides you with the information and tools required to activate, monitor, and manage your integrations in the runtime environment.

Topic

- Administering Integration Cloud Service (in *Using Oracle Integration Cloud Service*)

