Oracle® Cloud

Using the Advanced Message Queuing Protocol Adapter with Oracle Integration 3

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About This Content

This guide describes how to configure this adapter as a connection in an integration in Oracle Integration.

Audience

This guide is intended for developers who want to use this adapter in integrations in Oracle Integration.

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Related Resources

See these Oracle resources:

- Oracle Cloud at `http://cloud.oracle.com`
- *Using Integrations in Oracle Integration 3*
- *Using the Oracle Mapper with Oracle Integration 3*
- Oracle Integration documentation on the Oracle Help Center.

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.
italic	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.

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Understand the Advanced Message Queuing Protocol Adapter

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

Topics:

- Advanced Message Queuing Protocol Adapter Capabilities
- Advanced Message Queuing Protocol Adapter Restrictions
- What Application Version Is Supported?
- Workflow to Create and Add an Advanced Message Queuing Protocol Adapter Connection to an Integration

Advanced Message Queuing Protocol Adapter Capabilities

The Advanced Message Queuing Protocol Adapter enables Oracle Integration applications to exchange messages within systems. The Advanced Message Queuing Protocol Adapter supports communication through message brokers between queues and topics and supports publishing, synchronous consumption, and inbound polling for AMQP 1.0 messaging scenarios.

The Advanced Message Queuing Protocol Adapter provides the following capabilities:

- Allows for publishing a single message to a queue or topic.
- Supports consuming a message synchronously while waiting for the configured timeout.
- Allows for polling queues for messages at a configured interval.
- Allows durable topic subscriptions for topic consumption.
- Allows for standard messaging headers and custom headers.
- Routes structure-mismatched messages to a configured dead letter queue.
- Supports exchanging messages in JSON, XML, XSD, Avro, and opaque formats.
- Supports the Basic Authentication security policy.
- Supports establishing a connection using the public gateway or a connectivity agent.
- Supports implementing a secure egress (dedicated NAT gateway) to establish a connection by using a private endpoint. See Configure a Private Endpoint for Your Instance in *Provisioning and Administering Oracle Integration 3* and Configure the Endpoint Access Type.

You can configure the Advanced Message Queuing Protocol Adapter as a trigger or an invoke connection in an integration in Oracle Integration. The Advanced Message Queuing Protocol Adapter is one of many predefined adapters included with Oracle Integration. See the Adapters page in the Oracle Help Center.

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Advanced Message Queuing Protocol Adapter Restrictions

Note the following Advanced Message Queuing Protocol Adapter restrictions.

- Advanced Message Queuing Protocol (AMQP) protocol support is limited to version 1.0.
- Bulk publish and bulk consumption are not supported. The Advanced Message Queuing Protocol Adapter processes one message at a time.
- Queue and topic browsing is not available in the Adapter Endpoint Configuration Wizard. Destination names must be entered manually and are case-sensitive.
- Polling frequency cannot exceed 300 seconds.
- Maximum message size is 10 MB.
- Publishing cannot create a missing topic or queue; it fails if the topic or queue is not present.
- While configuring, the consume operation for queue, queue name, and dead letter queue name should not be the same.
- Destination and subscription syntax can differ by broker:
  - Solace: Client ID/subscription
  - Swift MQ: Client ID$Subscription
  - Apache QPID: Not applicable because only a queue consumption is possible

> **Note**
>
> There are overall service limits for Oracle Integration. A service limit is the quota or allowance set on a resource. See Service Limits.

What Application Version Is Supported?

For information about which application version is supported by this adapter, see the Connectivity Certification Matrix.

Workflow to Create and Add an Advanced Message Queuing Protocol Adapter Connection to 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.

This table lists the workflow steps for both adapter tasks and overall integration tasks, and provides links to instructions for each step.

Step	Description	More Information
1	Decide where to work	• Work in a project (see why working with projects is preferred in *Using Integrations in Oracle Integration 3*). • Work outside a project.

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Step	Description	More Information
2	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.	Create an Advanced Message Queuing Protocol Adapter Connection
3	Create the integration. When you do this, you add trigger (source) and invoke (target) connections to the integration.	Understand Integration Creation and Best Practices in *Using Integrations in Oracle Integration 3* and Add the Advanced Message Queuing Protocol Adapter Connection to an Integration
4	Map data between the trigger connection data structure and the invoke connection data structure.	Map Data in *Using Integrations in Oracle Integration 3*
5	(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).	Manage Lookups in *Using Integrations in Oracle Integration 3*
6	Activate the integration.	Activate an Integration in *Using Integrations in Oracle Integration 3*
7	Monitor the integration on the dashboard.	Monitor Integrations During Runtime in *Using Integrations in Oracle Integration 3*
8	Track payload fields in messages during runtime.	Assign Business Identifiers for Tracking Fields in Messages and Track Integration Instances in *Using Integrations in Oracle Integration 3*
9	Manage errors at the integration level, connection level, or specific integration instance level.	Manage Errors in *Using Integrations in Oracle Integration 3*

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Create an Advanced Message Queuing Protocol 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

Prerequisites for Creating a Connection

You must satisfy the following prerequisites to create a connection with the Advanced Message Queuing Protocol Adapter:

Obtain Connection Credentials for Solace Cloud

1. Log in to the Solace Portal.
2. Go to **Cluster Manager**.
   On the Cluster Manager Services page, you can view the services that have been created.
3. If you want to create a new service, click **Create Service** and enter the required credentials.
4. Make a note of the service name (for example, **OIC**). This service name is used as the virtual host or message VPN on the Connections page.
5. Click the service name.
6. On the Service Details page that appears, go to the **Connect** tab.
7. Click the **Connect with Java** option.
8. Navigate to the **Qpid JMS 2.0** library.
9. In the **Qpid JMS 2.0** details section, make a note of the user name, password, and host URI.
   You need these details when configuring the connection. For more information, see Configure Connection Properties and Configure Connection Security.

Create a Connection

Before you can build an integration, you must create the connections to the applications with which you want to share data.

> **Note**
>
> You can also create a connection in the integration canvas. See Define Inbound Triggers, Outbound Invokes, and Actions.

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To create a connection in Oracle Integration:

1. Decide where to start:
   - Work in a project (see why working with projects is preferred).
     a. In the navigation pane, click **Projects**.
     b. Select the project name.
     c. Click **Integrations** .
     d. In the **Connections** section, click **Add** if no connections currently exist or **+** if connections already exist. The Create connection panel opens.
   - Work outside a project.
     a. In the navigation pane, click **Design**, then **Connections**.
     b. Click **Create**. The Create connection panel opens.
2. Select the adapter to use for this connection. To find the adapter, scroll through the list, or enter a partial or full name in the **Search** field.
3. Enter the information that describes this connection.

Element	Description
Name	Enter a meaningful name to help others find your connection when they begin to create their own integrations.
Identifier	Automatically displays the name in capital letters that you entered in the **Name** field. If you modify the identifier name, don't include blank spaces (for example, `SALES_OPPORTUNITY`).
Role	Select the role (direction) in which to use this connection. **Note**: *Only* the roles supported by the adapter you selected are displayed for selection. Some adapters support all role combinations (trigger, invoke, or trigger and invoke). Other adapters support fewer role combinations. 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, you'll get an error when you try to drag the adapter into the section you didn't select. For example, assume you configure a connection for the Oracle Service Cloud (RightNow) Adapter as only an **invoke**. Dragging the adapter to a **trigger** section in the integration produces an error.
Keywords	Enter optional keywords (tags). You can search on the connection keywords on the Connections page.
Description	Enter an optional description of the connection.

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Element	Description
Share with other projects	**Note**: This field only appears if you are creating a connection in a project. Select to make this connection publicly available in other projects. Connection sharing eliminates the need to create and maintain separate connections in different projects. When you configure an adapter connection in a different project, the **Use a shared connection** field is displayed at the top of the Connections page. If the connection you are configuring matches the same type and role as the publicly available connection, you can select that connection to reference (inherit) its resources. See Add and Share a Connection Across a Project.

4. Click **Create**.

   Your connection is created. You're now ready to configure the connection properties, security policies, and (for some connections) access type.

5. Follow the steps to configure a connection.
   The connection property and connection security values are specific to each adapter. Your connection may also require configuration with an access type such as a private endpoint or an agent group.

6. Test the connection.

Configure Connection Properties

Enter connection information so your application can process requests.

1. Go to the **Properties** section.
2. Specify the following details.

Element	Description
Hostname	Enter the host URI obtained during the prerequisite steps. **Note**: Remove the last four digits from the URI because they represent the AMQP port number.
AMQP Port	Enter the last four digits of the host URI obtained during the prerequisite steps because they represent the AMQP port number.
Virtual Host/Message VPN (Under **Optional properties**)	Enter the service name obtained during the prerequisite steps.

See Prerequisites for Creating a Connection.

Configure Connection Security

Configure security for your Advanced Message Queuing Protocol Adapter connection.

1. Go to the **Security** section.

   The Advanced Message Queuing Protocol Adapter uses the Basic Authentication security policy.

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2. In the **Username**, enter the value for the user name.
3. In the **Password**, enter the value for the password.

Configure the Endpoint Access Type

Configure access to your endpoint. Depending on the capabilities of the adapter you are configuring, options may appear to configure access to the public internet, to a private endpoint, or to an on-premises service hosted behind a fire wall.

- Select the Endpoint Access Type
- Ensure Private Endpoint Configuration is Successful

Select the Endpoint Access Type

1. Go to the **Access type** section.
2. Select the option for accessing your endpoint.

Option	This Option Appears If Your Adapter Supports ...
Public gateway	Connections to endpoints using the public internet.
Private endpoint	Connections to endpoints using a private virtual cloud network (VCN). **Note**: To connect to private endpoints, you must complete prerequisite tasks in the Oracle Cloud Console. Failure to do so results in errors when testing the connection. See Connect to Private Resources in *Provisioning and Administering Oracle Integration 3* and Troubleshoot Private Endpoints in *Using Integrations in Oracle Integration 3*.
Connectivity agent	Connections to on-premises endpoints through the connectivity agent. a. Click **Associate agent group**. The Associate agent group panel appears. b. Select the agent group, and click **Use**. To configure an agent group, you must download and install the on-premises connectivity agent. See Download and Run the Connectivity Agent Installer and About Creating Hybrid Integrations Using Oracle Integration in *Using Integrations in Oracle Integration 3*.

Ensure Private Endpoint Configuration is Successful

- To connect to private endpoints, you must complete prerequisite tasks in the Oracle Cloud Console. Failure to do so results in errors when testing the connection. See Connect to Private Resources in *Provisioning and Administering Oracle Integration 3*.
- When configuring an adapter on the Connections page to connect to endpoints using a private network, specify the fully-qualified domain name (FQDN) and *not* the IP address. If you enter an IP address, validation fails when you click **Test**.

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Test the Connection

Test your connection to ensure that it's configured successfully.

1. In the page title bar, click **Test**. What happens next depends on whether your adapter connection uses a Web Services Description Language (WSDL) file. Only some adapter connections use WSDLs.

If Your Connection...	Then...
Doesn't use a WSDL	The test starts automatically and validates the inputs you provided for the connection.
Uses a WSDL	A dialog prompts you 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.

2. Wait for a message about the results of the connection test.
   - If the test was successful, then the connection is configured properly.
   - If the test failed, then edit the configuration details you entered. Check for typos and verify URLs and credentials. Continue to test until the connection is successful.
3. When complete, click **Save**.

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Add the Advanced Message Queuing Protocol Adapter Connection to an Integration

When you drag the Advanced Message Queuing Protocol Adapter into the trigger or invoke area of an integration, the Adapter Endpoint Configuration Wizard is invoked. This wizard guides you through configuration of the Advanced Message Queuing Protocol Adapter endpoint properties.

The following sections describe the wizard pages that guide you through configuration of the Advanced Message Queuing Protocol Adapter as a trigger or an invoke in an integration.

Topics:

- Basic Info Page
- Trigger Receive Operation Page
- Invoke Operation Page
- Invoke or Trigger Message Structure Page
- Invoke or Trigger Headers Page
- Summary Page

Basic Info Page

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

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 hyphens in the name. You can't include the following characters: • No blank spaces (for example, `My Inbound Connection`) • No special characters (for example, `#;83&` or `righ(t)now4`) except underscores and hyphens • No 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.`

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Trigger Receive Operation Page

Enter the required details on the Receive Operation page.

Element	Description
Select Resource	Select the resource: • **Queue** • **Topic**
Enter Queue Name (Only shown if you select **Queue**.)	Enter a queue name. **Note**: Browsing is not supported. The queue name must be entered manually and is case-sensitive.
Enter Topic Name (Only shown if you select **Topic**.)	Enter a topic name. **Note**: Browsing is not supported. The topic name must be entered manually and is case-sensitive.
Specify the value for the frequency (in seconds) at which records will be fetched	Enter the frequency value. **Note**: The maximum value is `300` seconds
Enter Subscription/ Endpoint Name (Appears if you select **Topic** as the resource.)	Enter the subscription or endpoint name.
Do you want to specify the message structure?	• **Yes**: Select to define the message structure to use on the Message Structure page of the wizard. • **No**: Select to not specify a message structure.
Enter dead letter queue name	Enter the queue to hold unprocessed messages.

Invoke Operation Page

Enter the required details on the Operation page.

Element	Description
What operation do you want to perform?	Select the operation: • **Publish** • **Consume**
Select Resource	Select the resource: • **Queue** • **Topic**
Enter Queue Name (Only shown if you select **Queue**.)	Enter a queue name. **Note**: Browsing is not supported. The queue name must be entered manually and is case-sensitive.
Enter Topic Name (Only shown if you select **Topic**.)	Enter a topic name. **Note**: Browsing is not supported. The topic name must be entered manually and is case-sensitive.

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Element	Description
Enter Subscription/ Endpoint Name (Appears only if you select the **Consume** operation and the **Topic** resource.)	Enter the subscription or endpoint name.
Do you want to specify the message structure?	• **Yes**: Select to define the message structure to use on the Message Structure page of the wizard. • **No**: Select to not define the message structure.
Enter the dead letter queue name (Appears only if you select the **Consume** operation.)	Enter the queue to hold unprocessed messages.

Invoke or Trigger Message Structure Page

Select the message structure to use. This page is displayed if you selected **Yes** for the **Do you want to specify the message structure?** field on the trigger Receive Operation page or invoke Operation page.

Element	Description
How would you like to specify the message structure?	Select a message structure: • **Avro Schema (AVSC) document** • **Sample JSON document** • **XML schema (XSD) document** • **Sample XML document**
Select File	Click **Drag and Drop** to select the file. Once selected, the file name is displayed in the **File Name** field.
Inline	Enter your sample JSON, if required.

Invoke or Trigger Headers Page

Define the message custom header's structure to attach to the message.

Element	Description
Standard Headers	Select from the available standard headers in the list.
Specify Message Custom Headers	Enter a custom header name and a custom header value.

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Summary Page

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

Element	Description
Summary	Displays a summary of the configuration values you defined on previous pages of the wizard. 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. To return to a previous page to update any values, click the appropriate tab in the left panel or click **Go back**. To cancel your configuration details, click **Cancel**.

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Implement Common Patterns Using the Advanced Message Queuing Protocol Adapter

You can use the Advanced Message Queuing Protocol Adapter to implement the following common pattern.

Topics:

- Synchronize Employee Records from AMQP to an Oracle DBaaS Database

Synchronize Employee Records from AMQP to an Oracle DBaaS Database

The Advanced Message Queuing Protocol Adapter enables you to automatically process employee records received from an AMQP queue and update the corresponding records in an Oracle DBaaS database. Similarly, you can synchronize employee records from AMQP brokers with other enterprise applications using Oracle Integration.

This use case provides an overview of how the Advanced Message Queuing Protocol Adapter polls an AMQP queue for employee messages, retrieves those messages, and updates existing employee records in an Oracle DBaaS database.

The following adapters and their operations are used in this use case:

- Polling operation (Advanced Message Queuing Protocol Adapter trigger connection): Polls the EMPLOYEE.UPDATE queue for employee-update messages.
- Insert or Update (Merge) operation (Oracle Database Cloud Service Adapter invoke connection): Updates or inserts employee records in the EMPLOYEE table in the Oracle DBaaS database.

This use case provides an overview of the steps.

1. Create Advanced Message Queuing Protocol Adapter and Oracle Database Cloud Service Adapter connections.
2. Create an application integration.
3. Drag the Advanced Message Queuing Protocol Adapter into the integration as a trigger connection.
4. Configure the AMQP endpoint as follows:
    a. Provide an endpoint name on the Basic Info page.
    b. Make the following entries on the Receive Operation page:
        i. Select **Queue** as the messaging structure.
        ii. Enter a queue name (for example, `EMPLOYEE UPDATE`).
        iii. Specify the polling interval.
        iv. Select **JSON** as the message structure format and import the **employee-message** JSON schema.

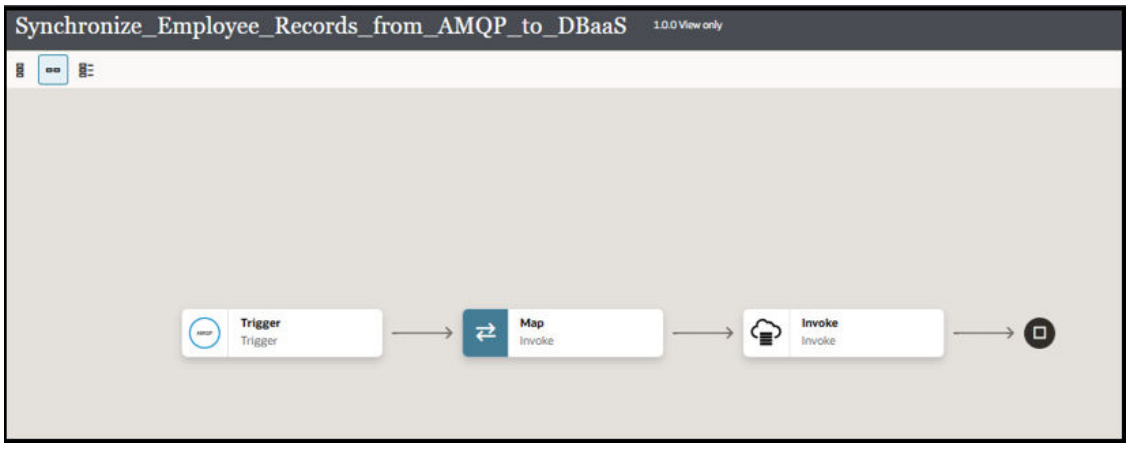
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v. Enter the name of a dead letter queue for structure-mismatched messages (for example, `EMPLOYEE UPDATE DLQ`).

c. Review your selections on the Summary page.

5. Drag the Oracle Database Cloud Service Adapter into the integration canvas as an invoke connection.
6. Configure the Oracle Database Cloud Service (DBaaS) endpoint as follows:
   a. Provide an endpoint name on the Basic Info page.
      i. Select **Perform an Operation on a Table**.
      ii. Select the **Insert or Update (Merge)** operation.
   b. Make the following selections on the Import Tables page:
      i. Select a schema to use (for example, **AQ**).
      ii. Enter or search for the table name (for example, `EMPLOYEE`).
      iii. Select the **Table Type** as **TABLE**.
      iv. Click **Search**.
      v. Select the table from the available list.
      vi. Click **Import Tables**.
   c. Review your selections on the Summary page.
7. In the mapper, map the employee fields from the AMQP message to the **EMPLOYEE** table columns.
8. Once complete, activate the integration.

As a result, when an employee-updated message is available in the **EMPLOYEE.UPDATE** queue, Oracle Integration retrieves the message and updates or inserts (in case the record is not present) the corresponding employee record in the Oracle DBaaS database using **EMPLOYEE_ID**. After successful processing, the AMQP message is acknowledged. Structure-mismatched messages are routed to the configured **EMPLOYEE.UPDATE.DLQ** dead letter queue.



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