

Oracle® Cloud

Using the Microsoft SharePoint Adapter with Oracle Integration 3



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Preface

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

 **Note:**

The use of this adapter may differ depending on the features you have, or whether your instance was provisioned using Standard or Enterprise edition. These differences are noted throughout this guide.

Topics:

- [Audience](#)
- [Documentation Accessibility](#)
- [Diversity and Inclusion](#)
- [Related Resources](#)
- [Conventions](#)

Audience

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

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <https://www.oracle.com/corporate/accessibility/>.

Access to Oracle Support

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Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and

the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

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.
<i>italic</i>	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.

1

Understand the Microsoft SharePoint Adapter

Review the following topics to learn about the Microsoft SharePoint 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:

- [Microsoft SharePoint Adapter Capabilities](#)
- [Microsoft SharePoint Adapter Restrictions](#)
- [What Application Version Is Supported?](#)
- [Workflow to Create and Add a Microsoft SharePoint Adapter Connection to an Integration](#)

Microsoft SharePoint Adapter Capabilities

The Microsoft SharePoint Adapter enables you to create an integration in Oracle Integration that connects to the Microsoft SharePoint application using Microsoft Graph APIs. You can configure the Microsoft SharePoint Adapter as a trigger or an invoke connection in an integration in Oracle Integration.

The Microsoft SharePoint Adapter provides the following capabilities:

- For trigger endpoints:
 - Allows you to subscribe to the following events in Microsoft SharePoint:
 - * An item is added/updated/deleted in a list
 - * A file is uploaded or deleted
 - Supports the OAuth 2.0 Client Credentials and Digital Signature security policies
 - Supports integration with the Microsoft SharePoint application using the public internet
- For invoke endpoints:
 - Allows you to perform data manipulation operations on list items and files available on Microsoft SharePoint
 - Supports the following operations on list items:
 - * List Items
 - * Get Item
 - * Add Item
 - * Update Item
 - * Delete Item
 - Supports the following operations on files:
 - * Upload File (up to 250 MB)
 - * Download File (You can select to delete the file once you download it.)
 - * Delete File (You can select to delete the file permanently.)

- Supports the OAuth 2.0 Client Credentials security policy for the invoke role
- Supports integration with publicly accessible resources (direct connectivity over the public internet) and private resources using the connectivity agent

The Microsoft SharePoint Adapter is one of many predefined adapters included with Oracle Integration. See the Adapters page in the Oracle Help Center.

Microsoft SharePoint Adapter Restrictions

Note the following Microsoft SharePoint Adapter restrictions.

- You must manually renew the subscription to receive any event change notification from the Microsoft SharePoint application. To learn how to renew the subscription after expiration, see [Trigger Configuration Page](#).
- The Microsoft SharePoint Adapter does not support data mutation (add or update) for complex data types such as hyperlink, location, and managed metadata. Therefore, while performing invoke operations, it is recommended that you define the list items using only primitive/noncomplex data types such as numbers, string, and boolean.



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 a Microsoft SharePoint 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	<ul style="list-style-type: none"> • Work in a project (see why working with projects is preferred in <i>Using Integrations in Oracle Integration 3</i>). • Work outside a project.
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 Microsoft SharePoint Adapter Connection

Step	Description	More Information
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 <i>Using Integrations in Oracle Integration 3</i> and Add the Microsoft SharePoint Adapter Connection to an Integration
4	Map data between the trigger connection data structure and the invoke connection data structure.	Map Data in <i>Using Integrations in Oracle Integration 3</i>
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 <i>Using Integrations in Oracle Integration 3</i>
6	Activate the integration.	Activate an Integration in <i>Using Integrations in Oracle Integration 3</i>
7	Monitor the integration on the dashboard.	Monitor Integrations During Runtime in <i>Using Integrations in Oracle Integration 3</i>
8	Track payload fields in messages during runtime.	Assign Business Identifiers for Tracking Fields in Messages and Track Integration Instances in <i>Using Integrations in Oracle Integration 3</i>
9	Manage errors at the integration level, connection level, or specific integration instance level.	Manage Errors in <i>Using Integrations in Oracle Integration 3</i>

2

Create an Microsoft SharePoint 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 Microsoft SharePoint Adapter:

- [Create a Site on Microsoft SharePoint](#)
- [Register an Application](#)
- [Set Application Permissions](#)
- [Obtain the Tenant ID and Client ID](#)
- [Create the Client Secret](#)

Create a Site on Microsoft SharePoint

1. Sign in to Microsoft SharePoint. See [Sign in to SharePoint](#). The SharePoint home page appears.
2. **Click Create Site.**
3. Select **Team Site** as the **Site Type**.
4. Select a **Site Template** from the options available.
5. Enter the site details:
 - Site name
 - Site description
 - Group email address
 - Site address
6. Click **Next**.
7. Select privacy settings and a site language.
8. Click **Create Site**.
9. Add site owners and members.
10. Click **Finish**.
Your site is created and visible on Microsoft SharePoint's home page.

You can now create your lists and add, update, or delete items in these lists. You can also go to the **Document** section and upload and delete files.

Register an Application

Register an application in the Microsoft Entra admin center.

1. Log in to the Microsoft Entra admin center (Azure AD).
2. Navigate to **Identity**, then **Applications**, and then **App registrations**.
3. Click **New Registrations**.
4. Enter a name for the application and select a supported account type.
5. (Optional) Under **Redirect URI**, enter the redirect URI in the following format:

```
https://OIC_instance_URL/icsapis/agent/oauth/callback
```

6. Click **Register**.
Application registration is successful and the client ID and tenant ID are displayed.

Set Application Permissions

Grant API permissions to the application that you created in the Microsoft Entra admin center (Azure AD).

1. Log in to the Microsoft Entra admin center.
2. Navigate to **Identity**, then **Applications**, and then **App registrations**.
3. Select the application that you registered. See [Register an Application](#) .
4. Click **API Permissions**.
5. Add the required permissions. See [Microsoft Graph permissions reference](#).
Refer to the following table for the minimum permissions required to create a Microsoft SharePoint Adapter connection.

Site No	Permission	Permission Type	Description
1	Sites.FullControl.All	Application, Delegated	Have full control of all site collections.
2	Sites.Manage.All	Application, Delegated	Create, edit, and delete items and lists in all the site collections.
3	Sites.ReadWrite.All	Application	Read and write items in all site collections.
4	Sites.ReadWrite.All	Delegated	Edit or delete items in all site collections.
5	Subscription.Read.All	Delegated	Read all webhook subscriptions.

Obtain the Tenant ID and Client ID

1. Register your application. See [Register an Application](#) .
2. Copy the values for the client ID and tenant ID that appear after you successfully register the application.

 **Note:**

You'll need to enter these values on the Connections page when you configure security for your Microsoft SharePoint Adapter connection. See [Configure Connection Security](#).

Create the Client Secret

1. Log in to the Microsoft Entra admin center.
2. Navigate to **Identity**, then **Applications**, and then **App registrations**.
3. Select the application that you registered. See [Register an Application](#).
4. Click **Certificates & secrets**.
5. Click **Client secrets**, and then click **New client secret**.
6. Enter a description of the secret and select a duration.
7. Click **Add**.
The client secret is displayed in the **Value** column.
8. Copy the client secret from the **Value** column.
You'll need to enter the client secret on the Connections page when you configure security for your Microsoft SharePoint Adapter connection. See [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](#).

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	<p>Select the role (direction) in which to use this connection.</p> <p>Note: <i>Only</i> 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.</p> <p>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.</p> <p>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.</p>
Keywords	Enter optional keywords (tags). You can search on the connection keywords on the Connections page.
Description	Enter an optional description of the connection.
Share with other projects	<p>Note: This field only appears if you are creating a connection in a project.</p> <p>Select to make this connection publicly available in other projects. Connection sharing eliminates the need to create and maintain separate connections in different projects.</p> <p>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.</p> <p>See Add and Share a Connection Across a Project.</p>

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. In the **Tenant Id** field, enter the tenant ID that you retrieved after performing the prerequisite steps. See [Obtain the Tenant ID and Client ID](#).

Configure Connection Security

Configure security for your Microsoft SharePoint Adapter connection.

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

The Microsoft SharePoint Adapter supports the OAuth 2.0 Client Credentials and Digital Signature security policies for the trigger role and the OAuth 2.0 Client Credentials security policy for the invoke role.

2. If your connection role is a trigger:

The OAuth 2.0 Client Credentials and Digital Signature security policies are supported.

- a. In the **Client Id** field, enter the client ID that you obtained after performing the prerequisite steps. See [Obtain the Tenant ID and Client ID](#).
- b. In the **Client Secret** field, enter the client secret that you obtained after performing the prerequisite steps. See [Obtain the Client Secret](#).
- c. In the **Client State** field, enter any random value. This value serves as a token to validate incoming webhook notifications from Microsoft SharePoint to Oracle Integration.

3. If your connection role is an invoke:

The OAuth 2.0 Client Credentials security policy is supported.

- a. In the **Client Id** field, enter the client ID that you obtained after performing the prerequisite steps. See [Obtain the Tenant ID and Client ID](#).
- b. In the **Client Secret** field, enter the client secret that you obtained after performing the prerequisite steps. See [Obtain the Client Secret](#).

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

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.
Connectivity agent	<p>Connections to on-premises endpoints through the connectivity agent.</p> <ol style="list-style-type: none"> a. Click Associate agent group. The Associate agent group panel appears. b. Select the agent group, and click Use. <p>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 <i>Using Integrations in Oracle Integration 3</i>.</p>

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	<p>A dialog prompts you to select the type of connection testing to perform:</p> <ul style="list-style-type: none"> • 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**.

3

Add the Microsoft SharePoint Adapter Connection to an Integration

When you drag the Microsoft SharePoint 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 Microsoft SharePoint Adapter endpoint properties.

The following sections describe the wizard pages that guide you through configuration of the Microsoft SharePoint Adapter as a trigger or an invoke in an integration.

Topics:

- [Basic Info Page](#)
- [Trigger Configuration Page](#)
- [Invoke Configuration Page](#)
- [Summary Page](#)

Basic Info Page

Specify a name, description, resource, and action type 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 connection. For example, if you are creating a database connection for adding new employee data, you may want to name it <code>CreateEmployeeInDB</code> . 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, <code>My DB Connection</code>)• Special characters (for example, <code>#;83&</code> or <code>right(now4)</code>) except underscores and hyphens• Multibyte characters
What does this endpoint do?	Enter an optional description of the connection's responsibilities.
Select Resource (Appears only for an invoke connection)	Select the resource (List Item or Files) on which you want to perform operations.
Select Action (Appears only for an invoke connection)	Select the operations that you want to perform on List Item or Files .

Trigger Configuration Page

Select the site name and list name, and enter the subscription tenure for which to receive notifications.

Element	Description
Select Site Name	Select a site that you want to configure for an event subscription.
Select List Name	Select the list name available in the selected site.
Subscription Expiry (in days)	Enter the subscription duration in days. (Between 1-29.)
Expire At	Displays the auto-calculated subscription expiry date.

Invoke Configuration Page

Select the site and list to perform the operation. If you selected the **Files** resource on the Basic Info Page, additional fields are displayed.

Element	Description
Select Site Name	Select the site on which you want to perform the operation.
Select List Name	Select the list in which you want to add, update, or delete items or the list name from which you want to retrieve items. Or Select the file that you want to upload, download, or delete.
Select Document Library (Appears only if you select the Files resource on the Basic Info Page.)	Select the drive or location where you want to upload the file.
Select File (Appears only if you select the Files resource and Download File/Delete File action on the Basic Info Page.)	Select the file that you want to download or delete.
Delete after download (Appears only if you select the Files resource and Download File action on the Basic Info Page.)	Select this option if you want to delete your downloaded file.
Delete Permanently (Appears only if you select the Files resource and Delete File action on the Basic Info Page.)	Select this option if you want to delete the file permanently without a soft delete. Once deleted, you cannot recover the file.

Summary Page

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

Element	Description
Summary	<p>Displays a summary of the 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 Go back.</p> <p>To cancel your configuration details, click Cancel.</p>