Oracle® Cloud

Using the Microsoft Office 365 Outlook Adapter with Oracle Integration 3





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F45566-05

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Preface

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



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

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit https://support.oracle.com/portal/ or visit Oracle Accessibility Learning and Support if you are hearing impaired.

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.
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.



1

Understand the Microsoft Office 365 Outlook Adapter

Review the following conceptual topics to learn about the Microsoft Office 365 Outlook 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 Office 365 Outlook Adapter Capabilities
- What Application Version Is Supported?
- About Microsoft Office 365 Outlook Adapter Use Cases
- Workflow to Create and Add a Microsoft Office 365 Outlook Adapter Connection



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

Microsoft Office 365 Outlook Adapter Capabilities

The Microsoft Office 365 Outlook Adapter enables you to create an integration with a Microsoft Office 365 Outlook application.

Use the Microsoft Office 365 Outlook Adapter in an Oracle Integration integration to retrieve messages in Office 365 and Outlook.com. The Microsoft Office 365 Outlook Adapter enables you to manage messages, manage folders, and so on.

The Microsoft Office 365 Outlook Adapter supports the Microsoft Graph REST API operations.

The Microsoft Office 365 Outlook Adapter is one of many predefined adapters included with Oracle Integration. You can configure the Microsoft Office 365 Outlook 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 Connectivity Certification Matrix.

About Microsoft Office 365 Outlook Adapter Use Cases

The Microsoft Office 365 Outlook Adapter can be used in the following scenarios.

- You can integrate a Microsoft Office 365 Outlook account with the Microsoft Office 365 Outlook Adapter to return information such as emails, attachments, and folders
- You can integrate a Microsoft Office 365 Outlook account with the Microsoft Office 365 Outlook Adapter to complete tasks such as sending email, creating new folders, deleting email and attachments, and creating new file attachments.

Note:

Oracle Integration offers a number of prebuilt integrations, known as *recipes*, that provide you with a head start in building your integrations. You can start with a recipe, and then customize it to fit your needs and requirements. Depending upon the solution provided, a variety of adapters are configured in the prebuilt integrations.

See the Recipes and Accelerators page on the Oracle Help Center.

Workflow to Create and Add a Microsoft Office 365 Outlook Adapter Connection

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

Create the adapter connections for the applications you want to	Create a Microsoft Office 365 Outlook Adapter
integrate. The connections can be reused in multiple integrations and are typically created by the administrator.	Connection
Create the integration. When you do this, you add trigger and invoke connections to the integration.	Understand Integration Creation and Best Practices and Add the Microsoft Office 365 Outlook Adapter Connection to an Integration
Map data between the trigger connection data structure and the invoke connection data structure.	Map Data in Using Integrations in Oracle Integration 3
(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
Activate the integration.	Manage Integrations in Using Integrations in Oracle Integration 3
Monitor the integration on the dashboard.	Monitor Integrations During Runtime in <i>Using</i> Integrations in Oracle Integration 3
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
	integrations and are typically created by the administrator. Create the integration. When you do this, you add trigger and invoke connections to the integration. Map data between the trigger connection data structure and the invoke connection data structure and the invoke connection data structure. (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). Activate the integration. Monitor the integration on the dashboard. Track payload fields in messages



Step	Description	More Information
8	Manage errors at the integration level, connection level, or specific integration instance level.	Manage Errors in Using Integrations in Oracle Integration 3



2

Create a Microsoft Office 365 Outlook 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 a Certificate to Connect with External Services

Prerequisites for Creating a Connection

These are the prerequisites for creating a connection with the Microsoft Office 365 Outlook Adapter.



Before creating a Microsoft Office 365 Outlook Adapter connection, you must upload the trusted public certificate to Oracle Integration. The public certificate is created when you create the private key. Rename the public certificate file extension to .crt. To upload the certificate, see Upload a Certificate to Connect with External Services.

- Log in to https://azure.microsoft.com/ with administrator access. If you do not have an account, click Free account.
- In the upper right, click Portal.
- 3. In the search field at the top, enter app registration, then click the Search icon.
- 4. Click New registration.
- 5. In the **Name** field, enter the user-facing display name for this application.
- In the Supported account types section, select Accounts in Any Organizational Directory.
- 7. In the Redirect URI (optional) section, select Web, then enter the redirect URL.

Note:

If you don't know the following information, check with your administrator:

- If your instance is new or upgraded from Oracle Integration Generation 2 to Oracle Integration 3.
- The complete instance URL with the region included (required for new instances).

For Connections	Include the Region as Part of the Redirect URL?	Example of Redirect URL to Specify
Created on new Oracle Integration 3 instances	Yes.	https:// OIC_instance_URL.region.ocp.oraclecl oud.com/icsapis/agent/oauth/callback
Created on instances upgraded from Oracle Integration Generation 2 to Oracle Integration 3	No. This applies to both: New connections created after the upgrade Existing connections that were part of the upgrade	https:// OIC_instance_URL.ocp.oraclecloud.com /icsapis/agent/oauth/callback

- 8. Click Register.
- 9. If you want to add more redirect URLs, click the link in the **Redirect URIs** section on the right side of the page.
- 10. In the left navigation pane, click **Certificates & secrets** to generate a secret.
- 11. In the Client secrets section, click New client secret.
- 12. In the **Description** field, enter a description for the secret.
- 13. In the **Expires** section, select the proper expiration time (preferably **Never**).
- 14. Click Add.
- **15.** In the **Client secrets** section at the bottom, copy the client secret value in the **Value** column. This value is required when configuring the connection on the Connections page.



The client secret value cannot be displayed again once you exit the Microsoft Azure page. Ensure that you copy this value.

16. In the left navigation pane, click **API permissions** to add required permissions to the application.

- 17. Click Microsoft Graph.
- 18. In the **Select permissions** field, begin entering the name of the adapter for which you are configuring permissions. For the Microsoft Office 365 Outlook Adapter, enter Email. Available permissions are displayed. You enter these permissions in the **Scope** field when configuring a connection on the Connections page.
- 19. Select the necessary permissions, and click **Update Permissions**. The offline_access scope is required. This scope is needed to get a refresh token, which is then used to get new access tokens. See Scopes and permissions in the Microsoft identity platform.
- 20. In the left navigation pane, click Overview.
- **21.** Copy the value shown in the **Application (client) ID** field. This value is required when configuring the connection on the Connections page.

Microsoft also provides an example of how to create this application. See Quickstart: Configure a client application to access web APIs.

Create a Connection

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

To create a connection in Oracle Integration:

- 1. In the navigation pane, click **Design**, then **Connections**.
- 2. Click Create.



You can also create a connection in the integration canvas. See Define Inbound Triggers and Outbound Invokes.

- 3. In the Create connection panel, 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.
- 4. 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).



Element	Description
Role	Select the role (direction) in which to use this connection (trigger, invoke, or both). Only the roles supported by the adapter are displayed fo 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, you'll get an error when you try to drag the adapter into the section you didn 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 Connection page.
Description	Enter an optional description of the connection.
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.

5. Click Create.

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

Configure Connection Security

Enter connection information so your application can process requests.

- 1. Go to the **Security** section.
- 2. Enter the client ID (application ID) and client secret values you recorded when you added your application to your Microsoft Office 365 Outlook account. See Prerequisites for Creating a Connection.
- **3.** Enter the scope URLs in the **Scope** field.

A scope is a list of authorization permissions for the target application. You must include the <code>offline_access</code> scope along with the application-specific scopes. A blank space between each scope is also required.



For example:

https://graph.microsoft.com/Mail.ReadWrite https://graph.microsoft.com/Mail.Send offline access

Ensure you correctly enter your scope values. Otherwise, you receive an error when clicking **Provide Consent**.

- 4. Click Provide Consent. This enables Oracle Integration to interact with the Microsoft Office 365 Outlook account used to create the application at https://portal.azure.com/. If everything is correct, you are prompted for the Oracle Integration credentials.
 - a. Enter the credentials and click **OK**. These are the same credentials you use to log in to Oracle Integration.
 - b. Enter the Microsoft Office 365 Outlook account credentials.
 - A page is displayed asking for permission to interact with the account.
 - c. Click Yes.

The Access Allowed! page is displayed.

Test the Connection

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

 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.

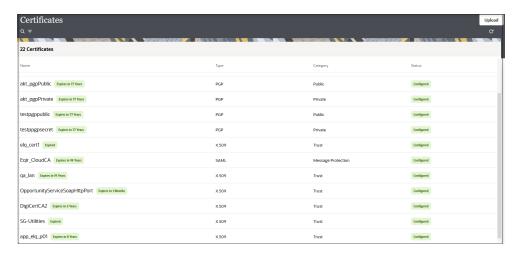


Upload a Certificate to Connect with External Services

Certificates allow Oracle Integration to connect with external services. If the external service/endpoint needs a specific certificate, request the certificate and then import it into Oracle Integration.

If you make an SSL connection in which the root certificate does not exist in Oracle Integration, an exception error 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.

- 1. Sign in to Oracle Integration.
- In the navigation pane, click Settings, then Certificates.
 All certificates currently uploaded to the trust store are displayed on the Certificates page.
- 3. Click **Filter** to filter by name, certificate expiration date, status, type, category, and installation method (user-installed or system-installed). Certificates installed by the system cannot be deleted.



- Click **Upload** at the top of the page.
 The Upload certificate panel is displayed.
- 5. Enter an alias name and optional description.
- 6. In the **Type** field, select the certificate type. Each certificate type enables Oracle Integration to connect with external services.
 - Digital Signature
 - X.509 (SSL transport)
 - SAML (Authentication & Authorization)
 - PGP (Encryption & Decryption)
 - Signing key



Digital Signature

The digital signature security type is typically used with adapters created with the Rapid Adapter Builder. See Learn About the Rapid Adapter Builder in Oracle Integration in *Using the Rapid Adapter Builder with Oracle Integration 3*.

- 1. Click **Browse** to select the digital certificate. The certificate must be an X509Certificate. This certificate provides inbound RSA signature validation. See Implement Digital Signature Validation (RSA) in *Using the Rapid Adapter Builder with Oracle Integration* 3.
- Click Upload.

X.509 (SSL transport)

- 1. Select a certificate category.
 - a. Trust: Use this option to upload a trust certificate.
 - i. Click Browse, then select the trust file (for example, .cer or .crt) to upload.
 - **b. Identity**: Use this option to upload a certificate for two-way SSL communication.
 - i. Click **Browse**, then select the keystore file (.jks) to upload.
 - ii. Enter the comma-separated list of passwords corresponding to key aliases.



When an identity certificate file (.jks) contains more than one private key, all the private keys must have the same password. If the private keys are protected with different passwords, the private keys cannot be extracted from the keystore.

- iii. Enter the password of the keystore being imported.
- c. Click Upload.

SAML (Authentication & Authorization)

- Note that Message Protection is automatically selected as the only available certificate
 category and cannot be deselected. Use this option to upload a keystore certificate with
 SAML token support. Create, read, update, and delete (CRUD) operations are supported
 with this type of certificate.
- 2. Click Browse, then select the certificate file (.cer or .crt) to upload.
- 3. Click Upload.

PGP (Encryption & Decryption)

- Select a certificate category. Pretty Good Privacy (PGP) provides cryptographic privacy and authentication for communication. PGP is used for signing, encrypting, and decrypting files. You can select the private key to use for encryption or decryption when configuring the stage file action.
 - **a. Private**: Uses a private key of the target location to decrypt the file.
 - i. Click **Browse**, then select the PGP file to upload.
 - ii. Enter the PGP private key password.



- **b. Public**: Uses a public key of the target location to encrypt the file.
 - i. Click **Browse**, then select the PGP file to upload.
 - ii. In the ASCII-Armor Encryption Format field, select Yes or No.
 - Yes shows the format of the encrypted message in ASCII armor.
 ASCII armor is a binary-to-textual encoding converter. ASCII armor
 formats encrypted messaging in ASCII. This enables messages to be
 sent in a standard messaging format. This selection impacts the
 visibility of message content.
 - No causes the message to be sent in binary format.
 - iii. From the **Cipher Algorithm** list, select the algorithm to use. Symmetrickey algorithms for cryptography use the same cryptographic keys for both encryption of plain text and decryption of cipher text. The following supported cipher algorithms are FIPS-compliant:
 - AES128
 - AES192
 - AES256
 - TDES
- c. Click Upload.

Signing key

A signing key is a secret key used to establish trust between applications. Signing keys are used to sign ID tokens, access tokens, SAML assertions, and more. Using a private signing key, the token is digitally signed and the server verifies the authenticity of the token by using a public signing key. You must upload a signing key to use the OAuth Client Credentials using JWT Client Assertion and OAuth using JWT User Assertion security policies in REST Adapter invoke connections. Only PKCS1- and PKCS8-formatted files are supported.

- 1. Select Public or Private.
- Click Browse to upload a key file.If you selected Private, and the private key is encrypted, a field for entering the private signing key password is displayed after key upload is complete.
- **3.** Enter the private signing key password. If the private signing key is not encrypted, you are not required to enter a password.
- 4. Click Upload.



Add the Microsoft Office 365 Outlook Adapter Connection to an Integration

When you drag the Microsoft Office 365 Outlook Adapter into the invoke area of an integration, the Adapter Endpoint Configuration Wizard appears. This wizard guides you through configuration of Microsoft Office 365 Outlook Adapter endpoint properties.

These topics describe the wizard pages that guide you through configuration of the Microsoft Office 365 Outlook Adapter as an invoke in an integration. The Microsoft Office 365 Outlook Adapter cannot be used as a trigger in an integration.

Topics:

- · Basic Info Page
- Invoke Operations 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.	

Invoke Operations Page

Select the Microsoft Graph REST API operation to perform.

The Microsoft Office 365 Calendar Adapter supports the selection of Microsoft Graph REST API operations from the **Select Operation** list.

Operation	Description
Get folders	Returns a folder collection or an individual folder from a mailbox.
Create a folder	Creates a folder in a mailbox.
Delete a message	Deletes a message in a mailbox.
Delete attachments	Returns a message collection or an individual message from a mailbox folder.
Send a new message	Creates and sends a new message.
Reply to a message	Returns a response to a message.
Forward a message	Forwards a message to a mailbox.
Get messages	Returns a message collection or an individual message from a mailbox folder.
Get messages of a folder	Returns a message collection or an individual message from a specific folder.
Move a message	Moves a message collection or an individual message from one mailbox folder to another.
Copy a message	Copies a message collection or an individual message from one mailbox folder to another.
Get an attachment collection	Returns a collection of attachments from a mailbox folder.
Get an attachment	Returns an individual attachment from a mailbox folder.
Create a file attachment	Creates an attachment and attaches it to a message in a mailbox folder.

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.



4

Troubleshoot the Microsoft Office 365 Outlook Adapter

Review these topics to learn about troubleshooting issues with the Microsoft Office 365 Outlook Adapter.

Topics:

- Expired Refresh Token Causes an Invalid Token Error
- Unauthorized Security Setup
- ContentType Passed in the Request Body Must Either be Text or HTML

Expired Refresh Token Causes an Invalid Token Error

The refresh token expires after 90 days of inactivity. Microsoft also reserves the right to expire the token at any time for security reasons. The following error message indicates that a refresh token has expired and cannot be exchanged for a new token.

```
<genericRestFault><errorCode>400</errorCode><errorPath><![CDATA[POST
https://login.microsoftonline.com/common/oauth2/v2.0/token returned a
response
status of 400 Bad Request]]></errorPath><instance><!
[CDATA[{"error":"invalid_grant",
"error_description":"AADSTS700082: The refresh token has expired due to
inactivity.
The token was issued on 2019-11-05T19:11:55.7631194Z and was inactive for
90.00:00:00.
\r\nTrace ID: b7b09af0-2391-4840-93ee-59b383031700\r\nCorrelation ID:
16ff8fa7-e78c-499a-b4f5-c18498b94f6c\r\nTimestamp: 2020-03-12 01:41:39Z",
. . .
. . .
. . .</pre>
```

If the refresh token has expired, perform the following steps:

- Click Provide Consent again on the Connections page for the Microsoft Office 365
 Outlook Adapter connection and go through the OAuth process.
 After completing this process, a new token is acquired.
- Test and save the connection.After this, the token is renewed and the connection works as expected.

See Configurable token lifetimes in Azure Active Directory.

Unauthorized Security Setup

This issue occurs when an API request is made without access tokens. When an API request is submitted without access tokens, the error message <code>Unauthorized!!</code> Security setup not done for account is displayed.

Reset the Microsoft Office 365 Outlook Security Credentials

Solution: Repeat the procedure for setting the Microsoft Office 365 Outlook security credentials. See Configure Connection Security.

If resetting the email security credentials does not resolve the error message, make sure REST API functionality is enabled on the Microsoft Office 365 Outlook account and the scopes defined for the connection are correct. See Prerequisites for Creating a Connection and Configure Connection Security.

ContentType Passed in the Request Body Must Either be Text or HTML

As per the Microsoft documentation, the ContentType value passed in the request Body can either be Text or HTML.

Any other value passed in the request results in an error from Microsoft Office 365 Outlook such as the following:

```
POST https://outlook.office.com/api/v2.0/me/sendmail returned a response status of 400 Bad Request 
{"error":{"code":"RequestBodyRead", "message":"Requested value 'text/xml' was not found."}}
```

