Oracle® Cloud

Using the eBay Marketplace 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
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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 eBay Marketplace Adapter

Review the following conceptual topics to learn about the eBay Marketplace 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:

- eBay Marketplace Adapter Capabilities
- What Application Version Is Supported?
- Workflow to Create and Add an eBay Marketplace Adapter Connection to an Integration

eBay Marketplace Adapter Capabilities

The eBay Marketplace Adapter enables you to create an integration with an eBay application. You can configure the eBay Marketplace Adapter as an invoke connection in an integration in Oracle Integration.

The eBay Marketplace Adapter provides the following benefits:

- Provides invoke (target) connection support for performing various types of operations for the following modules:
  - Buy
  - Sell
  - Commerce
- Supports eBay APIs protected using OAuth 2.0 two-legged and three-legged authentication
- Supports connecting to private resources that are in your virtual cloud network (VCN) with a private endpoint. See Connect to Private Resources in *Provisioning and Administering Oracle Integration 3* and Configure the Endpoint Access Type. This type of connection does not use the connectivity agent.

The eBay Marketplace Adapter is one of many predefined adapters included with Oracle Integration.

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 eBay Marketplace 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	Access Oracle Integration.	Go to `https://instance_URL/ic/home`
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 eBay Marketplace Adapter Connection
3	Create the integration. When you do this, you add trigger (source) and invoke (target) connections to the integration.	Create Integrations in *Using Integrations in Oracle Integration 3* and Add the eBay Marketplace 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 Integrations in *Using Integrations in Oracle Integration 3*
7	Monitor the integration on the dashboard.	Monitor Integrations in *Using Integrations in Oracle Integration 3*
8	Track payload fields in messages during runtime.	Assign Business Identifiers for Tracking Fields in Messages and Manage Business Identifiers for Tracking Fields in Messages 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*

2

Create an eBay Marketplace 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
- Create a Connection
- Upload a Certificate to Connect with External Services

Prerequisites for Creating a Connection

You must satisfy the following prerequisites to create a connection with the eBay Marketplace Adapter:

- Obtain the Client ID and Client Secret
- Use the Authorization Code Credentials Security Policy
- Obtain the Scope
- Identify the Applicable Scope for the Selected Security Policy

Obtain the Client ID and Client Secret

1. Log in to your eBay Developer Program.

2. Click your account and select **Application access keys**.
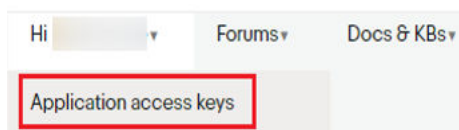
3. Copy the client ID and client secret.
   You'll need to enter these values on the Connections page when you configure security for your eBay Marketplace Adapter connection in Oracle Integration. See Configure Connection Security.

Use the Authorization Code Credentials Security Policy

If you want to use the authorization code credentials security policy, you must create a redirect URL in eBay.

1. Log in to your eBay Developer Program.

2. Click your account and select **Application access keys**.

3. Click **User Tokens**.

4. Under **Get a Token from eBay via Your Application**, click **+Add eBay Redirect URL**.

5. In the **Your auth accepted URL** field, enter your Oracle Integration instance URL in the following format:

   ```
   https://your_server.com/icsapis/agent/oauth/callback
   ```


6. Click **Save**.

Obtain the Scope

1. Log in to your eBay Developer Program.

2. On the home page, click **Docs & KBs** > **All API Documentation**. The list of the APIs is displayed for all the modules.
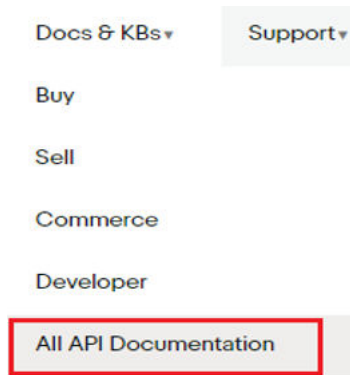
3. Click the **API Reference** link for the API you need to configure (for example, **Account API**).
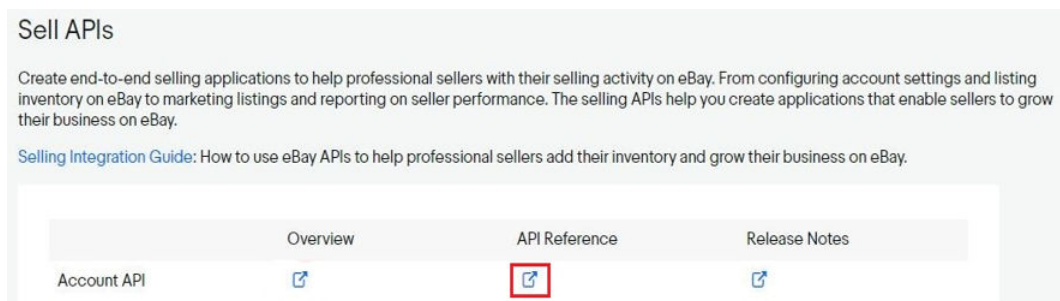
4. On the API Reference : Resources page, click a method name.

5. On the next page, under **OAuth** scope, find the list of OAuth scopes available for a particular method.
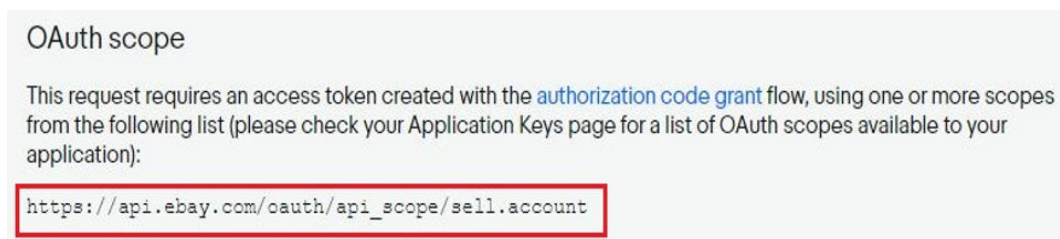
6. Copy the scope.
   You'll need to enter this value on the Connections page when you configure security for your eBay Marketplace Adapter connection in Oracle Integration. See Configure Connection Security.

Identify the Applicable Scope for the Selected Security Policy

1. Log in to your eBay Developer Program.

2. On the home page, click **Docs & KBs** > **All API Documentation**.

3. Click the **API Reference** link for an API and click a method name.

4. Click **OpenAPI 3 JSON Contract (beta)**.

A JSON file is downloaded.

5. Open the JSON file.

6. Scroll to the bottom or search the `securitySchemes` field. The applicable security policies/policy appear(s).

> **Note:**
>
> Search for `Security` in the downloaded JSON file. If the available scope in the `Security` field is different than the one you obtained after performing the steps (see Obtain the Scope), you must enter both scopes in the **Scope** field on the Connections page. See Configure Connection Security. In most cases, the scopes are the same in both locations.

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**.

> **Note:**
>
> 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).
Role	Select the role (direction) in which to use this connection (trigger, invoke, or both). Only the roles supported by the 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, 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.
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 Properties

Enter connection information so your application can process requests.

1. Go to the **Properties** section.

2. In the **Select ebay Environment** field, select the environment. Your selection enables the eBay Marketplace Adapter to connect to the appropriate endpoint.

   - **Sandbox**: A self-contained, testing environment that imitates an eBay production environment. The sandbox environment enables you to test and debug your eBay APIs before running them in eBay's live production environment.

   - **Production**: eBay's live production environment for running your eBay APIs.

Configure Connection Security

Configure security for your eBay Marketplace Adapter connection by selecting the security policy and specifying the client ID, client secret, and scope values.

The client ID, client secret, and scope values to specify are based on the security policy you select. See Prerequisites for Creating a Connection.

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

2. From the **Security Policy** list, select the security policy.

   - **eBay Client Credential**: Select to configure operations for the resources owned by your application in eBay (for example, **Search**, **Get default category tree id**, **Get listing structure polices**, and so on).
     The client credentials grant type generates a new application access token, which is used to access the resources owned by the application.

   - **Authorization Code Credentials**: Select to configure operations for the resources owned by the respective user in eBay (for example, **Get user**, **Get shopping cart**, **Get transaction summary**, and so on).
     The authorization code grant type generates a new user access token, which is used to access the resources owned by the respective user.

   > **Note:**
   >
   > You must be aware of which policy to select before you configure security for your eBay Marketplace Adapter connection.

3. If you select **eBay Client Credential**:

   a. In the **Client Id** field, enter the client ID that you obtained after performing the steps in the prerequisites section. See Obtain the Client ID and Client Secret.

   b. In the **Client Secret** field, enter the client secret that you obtained after performing the steps in the prerequisites section. See Obtain the Client ID and Client Secret.

    c. In the **Scope** field, enter comma-separated scopes corresponding to the security policy you selected. See Obtain the Scope and Identify the Applicable Scope for the Selected Security Policy . For example:

```
https://api.ebay.com/oauth/api_scope/buy.item.bulk,https://
api.ebay.com/oauth/api_scope
```

4. If you selected **Authorization Code Credentials**:

    a. In the **Client Id** field, enter the client ID that you obtained after performing the steps in the prerequisites section. See Obtain the Client ID and Client Secret.

    b. In the **Client Secret** field, enter the client secret that you obtained after performing the steps in the prerequisites section. See Obtain the Client ID and Client Secret.

    c. In the **Scope** field, enter comma-separated scopes corresponding to the security policy you selected. See Obtain the Scope and Identify the Applicable Scope for the Selected Security Policy . For example:

```
https://api.ebay.com/oauth/api_scope/sell.marketing,https://
api.ebay.com/oauth/api_scope/buy.shopping.cart
```

> **Note:**
>
> The **Scope** field is not marked with an asterisk (*****). This incorrectly implies that this field is not mandatory. This field is mandatory.

    d. Click **Provide Consent**. You are redirected to the eBay login page.

    e. Log in to the eBay account with your credentials.

    f. On the Grant Application Access page, click **I Agree**.

    g. Click **Save**.

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

Select the option for accessing your endpoint.

Option	This Option Appears If Your Adapter Supports ...
Public gateway	Connections to endpoints using the public internet.

Option	This Option Appears If Your Adapter Supports ...
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 Infrastructure 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*.

Ensure Private Endpoint Configuration is Successful

- To connect to private endpoints, you must complete prerequisite tasks in the Oracle Cloud Infrastructure 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**.

- IPSec tunneling and FastConnect are not supported for use with private endpoints.

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.
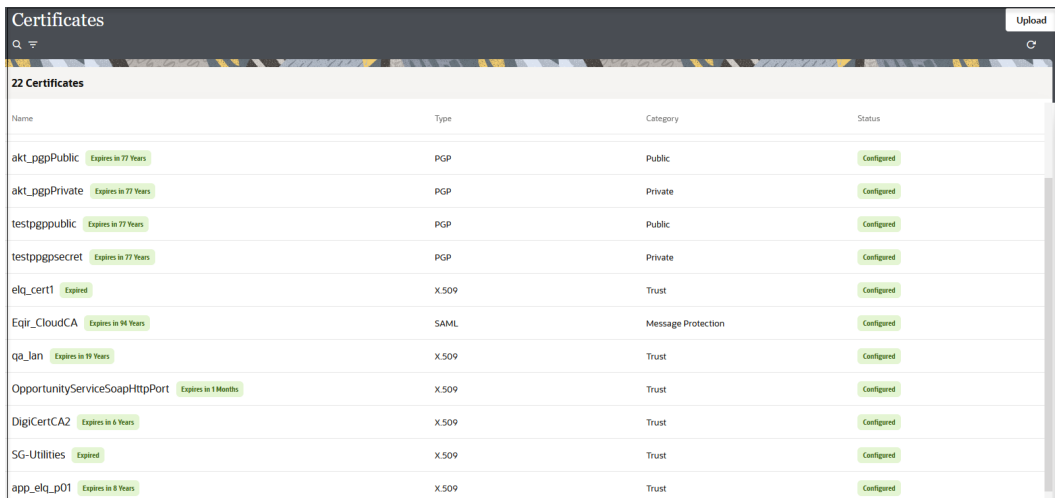
3. When complete, click **Save**.

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.

2. 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.

4. 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*.

2. 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.

        > **✏ Note:**
        >
        > 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)

1. 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)

1. 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. Symmetric-key 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**.

2. 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**.

3

Add the eBay Marketplace Adapter Connection to an Integration

When you drag the eBay Marketplace Adapter into the invoke area of an integration, the Adapter Endpoint Configuration Wizard is invoked. This wizard guides you through configuration of the eBay Marketplace Adapter endpoint properties.

The following sections describe the wizard pages that guide you through configuration of the eBay Marketplace Adapter as an invoke in an integration. You cannot configure the eBay Marketplace Adapter 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 module, entity, and supported operation in eBay Marketplace Cloud.

Element	Description
Select module	Select the module: • **Buy**: Configures browse and browse-related operations such as **Search by image**, **Add item**, **Get items**, and so on. • **Commerce**: Configures identity and identity-related operations such as **Get user**. • **Sell**: Configures entities such as **Fulfillment**, **Account**, **Finance**, **Marketing**, and so on and related operations such as **Create shipping fulfillment**, **Get orders**, **Delete payment policy**, **Get transactions**, and so on.
Select entity	Select the entity, such as **Inventory**, **Browse**, **Identity**, and so on. The entities available for selection are based on the module selected.
Filter by resource	Type the initial letters to filter the display of operations. You can also select a filter type: • **Delete** • **Post** • **Get** • **Put**
Select operation	Select an operation name, such as **Bulk update price quantity**, **Publish offer**, **Get inventory items**, **Delete sales tax**, and so on. The operations available for selection are based on the module and entity selected. **Note**: The operations available for selection are also based on the security policy you selected for your eBay Marketplace Adapter connection. See Configure Connection Security.

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 eBay Marketplace Adapter

Review the following topics to learn about troubleshooting issues with the eBay Marketplace Adapter.

Topics:

- Insufficient Permissions to Fulfill the Request

Additional integration troubleshooting information is provided. See Troubleshoot Oracle Integration in *Using Integrations in Oracle Integration 3* and the Oracle Integration Troubleshooting page on the Oracle Help Center.

Insufficient Permissions to Fulfill the Request

The following error occurs during runtime if the provided scope value is not applicable or invalid for the selected security policy. The scope value is passed on the Connections page when you configure the security policy for your eBay Marketplace Adapter connection.

```
Insufficient permissions to fulfill the request.
```
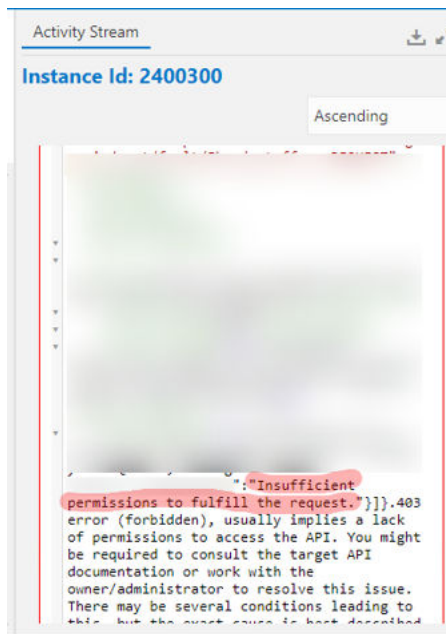

Solution: Remove the invalid scope that you configured for the eBay Marketplace Adapter connection, provide the valid/applicable scope for the selected security policy, and reactivate the integration. See Obtain the Scope and Identify the Applicable Scope for the Selected Security Policy .