

Oracle® Cloud

Using the Oracle Health Inventory Management 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.
<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 Oracle Health Inventory Management Adapter

Review the following topics to learn about the Oracle Health Inventory Management 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:

- [Oracle Health Inventory Management Adapter Capabilities](#)
- [Oracle Health Inventory Management Adapter Restrictions](#)
- [What Application Version Is Supported?](#)
- [Oracle Health Inventory Management Adapter Use Cases](#)
- [Workflow to Create and Add an Oracle Health Inventory Management Adapter Connection to an Integration](#)

Oracle Health Inventory Management Adapter Capabilities

The Oracle Health Inventory Management Adapter enables you to synchronize supply data from Oracle Fusion Cloud SCM with the Oracle Health Electronic Health Record (EHR) platform based on a specified schedule.

The Oracle Health Inventory Management Adapter provides the following capabilities:

- Synchronizes item information such as item number, item description, manufacturer, vendor, cost, location, substitutions, and so on
- Synchronizes supply usage information from the Oracle Health EHR platform back to the Oracle Fusion Cloud SCM

You can configure the Oracle Health Inventory Management Adapter as an invoke connection in an integration in Oracle Integration. The Oracle Health Inventory Management Adapter is one of many predefined adapters included with Oracle Integration. See the Adapters page in the Oracle Help Center.

Oracle Health Inventory Management Adapter Restrictions

Note the following Oracle Health Inventory Management Adapter restrictions.

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Note

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

Oracle Health Inventory Management Adapter Use Cases

The Oracle Health Inventory Management Adapter can be used in scenarios such as the following:

- Synchronize supply data from the Oracle Fusion Cloud SCM to the Oracle Health EHR platform:
 - Select and configure the REST Adapter as the trigger connection.
 - Select and configure the Oracle Health Inventory Management Adapter as the invoke connection.
 - Select the Create Items operation on the Operations page in one integration to send item information.
 - Perform appropriate data mapping between the REST Adapter and the Oracle Health Inventory Management Adapter in the mapper.
 - Invoke the integration endpoint with the client to send a POST request to the Oracle Health Inventory Management Adapter.
 - Send the data as a payload from the Oracle Health Inventory Management Adapter while invoking the configured operation in Oracle Health.
- Synchronize supply usage information from the Oracle Health EHR platform to the Oracle Fusion Cloud SCM:
 - Select and configure the Oracle Health Inventory Management Adapter as the invoke connection.
 - Select the List Transactions operation on the Operations page in the other integration to retrieve the transaction history data.
 - Perform appropriate data mapping between the REST Adapter and Oracle Health Inventory Management Adapter in the mapper.
 - Send a GET request from the REST Adapter to the Oracle Health Inventory Management Adapter to return the transaction history.

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 Oracle Health Inventory Management 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 <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 Oracle Health Inventory Management 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 <i>Using Integrations in Oracle Integration 3</i> and Add the Oracle Health Inventory Management 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 Oracle Health Inventory Management 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 Oracle Health Inventory Management Adapter.

Obtain the configuration details from Clinical Inventory Management to specify on the Connections page.

See [Call Sandbox 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.

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	Select the role (direction) in which to use this connection. 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. 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.

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. Enter the following details to connect to Cerner.

Element	Description
Service Container URL	Enter the URL to use to connect to the Cerner server. For example: <code>https://msol-ip.ml-api.us-1.cernersvr.net</code>
Tenant Domain	Enter the tenant domain to use to connect to the Cerner server. For example: <code>64dev.ip.devcerner.net</code>

Configure Connection Security

Configure security for your Oracle Health Inventory Management Adapter connection.

1. Go to the **Security** section.
2. Select the security policy to use and specify the required details. You must satisfy prerequisites to successfully configure your selected security policy. See [Prerequisites for Creating a Connection](#).

Security Policy	Usage	Description
Millennium OAuth 1.0a System Flow	Use for system-to-system communication, where a backend application or service need to access Cerner Millennium APIs without user involvement. Only the client application and the Cerner server are involved in the authentication process (no end user).	• Millennia Discovery URL: Enter the URL to identify the service endpoint for the tenant. • Tenant key: Enter the customer account identifier. • Consumer key: Enter the value to identify the consumer making the request. • Consumer secret: Enter the value used to authorize the consumer making the request.

Security Policy	Usage	Description
Millennium OAuth 1.0a User Flow	Use when an end user (such as a patient or provider) needs to authorize an application to access their specific data on Cerner Millennium. The client application, Cerner server, and end user are involved in the authentication process.	• Millennia Discovery URL: Enter the URL to identify the service endpoint for the tenant. • Tenant key: Enter the customer account identifier. • Username / Password: Enter the use credentials to connect to the service endpoint. • Consumer Key: Enter the value to identify the consumer making the request. • Consumer Secret: Enter the value used to authorize the consumer making the request.

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	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 <i>Using Integrations in Oracle Integration 3</i>.

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**.

3

Add the Oracle Health Inventory Management Adapter Connection to an Integration

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

The following sections describe the wizard pages that guide you through configuration of the Oracle Health Inventory Management Adapter as an invoke in an integration. The Oracle Health Inventory Management Adapter cannot be used as a trigger in an integration.

Topics:

- [Basic Info Page](#)
- [Invoke Operations Page](#)
- [Invoke Query 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

Enter the Oracle Health Inventory Management invoke operation values for your integration.

The following Oracle Health Inventory Management operations can be performed.

Operation	Description
Create Items	Gets items from ERP and sends to Oracle health
Create Manufacture Items	Gets manufacture items from ERP and sends them to Oracle Health.
Create Item Locators	Gets item locators from ERP and sends them to Oracle Health.
Create Item Costs	Gets item costs from ERP and sends them to Oracle Health.
Create Item Replacement	Gets items and a substitution item from ERP and sends them to Oracle Health.
List Transactions	Gets the transaction history.

Invoke Query Page

Enter the Oracle Health Inventory Management query parameters.

You can configure the request query parameters on the Oracle Health Inventory Management Adapter Request Parameters page. This page is displayed when you select an operation that includes request parameters. The parameters that are displayed are dependent on the operation selected.

Parameter	Description
externalEventId	Identifies the external ID for which to return information.
oicBaseUrl	N/A
spokeSystemCode	N/A
serviceInstanceName	N/A

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 Oracle Health Inventory Management Adapter

Review the following topics to learn about troubleshooting issues with the Oracle Health Inventory Management Adapter.

Topics:

- [Cause of an Invalid Request Error](#)

Cause of an Invalid Request Error

If you receive an invalid request error, the redirect URI isn't configured correctly.