

Oracle® Cloud

Using the Oracle NetSuite REST 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.

Documentation Accessibility

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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 NetSuite REST Adapter

Review the following topics to learn about the Oracle NetSuite REST 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 NetSuite REST Adapter Capabilities](#)
- [What Application Version Is Supported?](#)
- [Workflow to Create and Add an Oracle NetSuite REST Adapter Connection to an Integration](#)

Oracle NetSuite REST Adapter Capabilities

The Oracle NetSuite REST Adapter enables you to create an integration in Oracle Integration that connects to the NetSuite application. You can configure the Oracle NetSuite REST Adapter as an invoke connection in an integration in Oracle Integration.

The Oracle NetSuite REST Adapter provides the following capabilities:

- Supports CRUD (create, retrieve, update, or delete) operations on records using standard REST methods (POST, GET, PATCH, PUT, and DELETE).
- Allows you to retrieve single or multiple records by creating customized queries using SuiteQL. You can make queries dynamic by adding binding parameters.
- Allows synchronous and asynchronous requests:
 - CRUD and SuiteQL search operations can be executed synchronously or asynchronously.
 - Synchronous requests are suitable for records up to 104 MB in size. Results are returned instantly.
 - Asynchronous requests support long-running tasks (records greater than 104 MB in size) such as large data retrieval or heavy SQL searches. A job ID is returned in the response.
See [REST Web Services Request Processing](#).
- Supports asynchronous operations:
 - Allows checking of the job status using the Check Job Status operation and retrieves the task ID using the Retrieve Task ID operation.
 - Fetches results using the returned IDs through the Fetch Async Results operation.
- Supports RESTlet operations:
 - Defines custom operations by writing JavaScripts and deploying them within the NetSuite application.

- Supports the OAuth Authorization Code Credentials and JWT Client Credentials Assertion for NetSuite security policies.

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

Advantages Over the Oracle NetSuite Adapter

The Oracle NetSuite REST Adapter provides the following advantages over the Oracle NetSuite Adapter.

- Unlike the Oracle NetSuite Adapter, which uses SOAP APIs, the Oracle NetSuite REST Adapter uses REST APIs and JSON payloads, which are lightweight, human-readable, and easy for modern integration platforms to process.
- The Oracle NetSuite Adapter relies on the Username Password Token Policy (token-based authentication). This policy exposes higher risk because credentials may be stored in integration systems. On the other hand, the Oracle NetSuite REST Adapter uses OAuth 2.0 Authorization Code Credentials, a modern, secure, industry-standard authentication method, which eliminates the need to manage or store user passwords.
- The Oracle NetSuite REST Adapter allows you to create customized queries, define custom operations by writing JavaScript, and deploy them within the NetSuite application.
- The Oracle NetSuite REST Adapter is more powerful and flexible, with modern querying and custom API extension capabilities.

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 NetSuite REST 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 Oracle NetSuite REST 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 NetSuite REST Adapter Connection to an Integration

Step	Description	More Information
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 NetSuite REST Adapter Connection

A connection is based on an adapter. You define connections to the specific 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

You must satisfy the following prerequisites to create a connection with the Oracle NetSuite REST Adapter.

Obtain the NetSuite Account ID, Client ID, Client Secret, and Scopes for Security Policies

1. Log in to the NetSuite application.
The NetSuite application homepage appears.
2. Retrieve the account ID from the application URL.
For example, if the application URL is as follows:

```
https://111****21.app.netsuite.com
```

Then the account ID is 111****21.

3. Go to **Setup**, then **New**, and then **Manage Integrations**.
4. On the Integrations page, perform the following steps:
 - a. Enter the integration name.
 - b. Select the **Authorization Code Grant** or/and **Client Credentials (Machine to Machine) Grant** checkbox.

Note

- You must select the **Client Credentials (Machine to Machine) Grant** checkbox when using the JWT Client Credentials Assertion for NetSuite security policy.
- For the **OAuth Authorization Code Grant** flow, you can set the refresh token validity in the NetSuite integration record to any value between 1 hour and 720 hours (30 days).

- c. Select the **Public Client** checkbox.
- d. Select required scopes such as **RESTLETS**, **REST Web Service**, and others.
- e. Enter the redirect URI in the **Redirect URI** field.
- f. Click **Save**.

A new integration is created.

5. Make note of the client ID and client secret values in the **Client Credentials** section.

Note

- For security purposes, the client ID and client secret are generated and shown one time. If you do not make note of these values, you cannot regenerate them.
- The generated client ID also serves as the consumer key and can be used for the JWT Client Credentials Assertion for NetSuite security policy.

Certificate ID and JWT Private Key Alias for JWT Client Credentials Assertion for NetSuite Security Policy

- To generate and validate the certificate ID and private key alias, see [Certificate Conditions](#).
- To create a mapping for the client credentials flow, See [Creating a Mapping for the Client Credentials Flow](#).
- To upload the private key alias to the Oracle Integration instance, see [Signing key](#) and select **Private**.


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 **NetSuite Account ID** field, enter the account ID that you obtained from the NetSuite Application. See [Prerequisites for Creating a Connection](#).

Configure Connection Security

Configure security for your Oracle NetSuite REST Adapter connection.

1. Go to the **Security** section.
2. Select the security policy to use. Based on your selection, the page is refreshed to display various login credential fields.

Security Policy	Description
OAuth Authorization Code Credentials	<ol style="list-style-type: none"> a. Specify the following information. See Prerequisites for Creating a Connection for details. <ul style="list-style-type: none"> • NetSuite OAuth Client ID: Enter the client ID. • NetSuite OAuth Client Secret: Enter the client secret. • Scope: Enter the scope. b. Click Provide Consent, then provide the authentication details required to successfully establish the connection.

Security Policy	Description
JWT Client Credentials Assertion for NetSuite	<p>Enter the following details.</p> <ul style="list-style-type: none"> • Access token URI — Enter the URL to which to send a request to obtain the access token. For example: <pre>https:// accountID.suitetalk.api.netsuite .com/services/rest/auth/ oauth2/v1/token</pre> <p>Where <i>accountID</i> represents your NetSuite account ID.</p> • Consumer Key — Enter the consumer key (client ID) obtained from the NetSuite integration record. • Certificate ID — Enter the certificate ID obtained from the NetSuite OAuth 2.0 Client Credentials setup. • JWT private key alias — Enter the JWT private key alias. This is the same alias you specified when uploading the signing key certificate on the Certificates page. See Upload a Certificate to Connect with External Services. • Scope — Enter the scopes.

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.

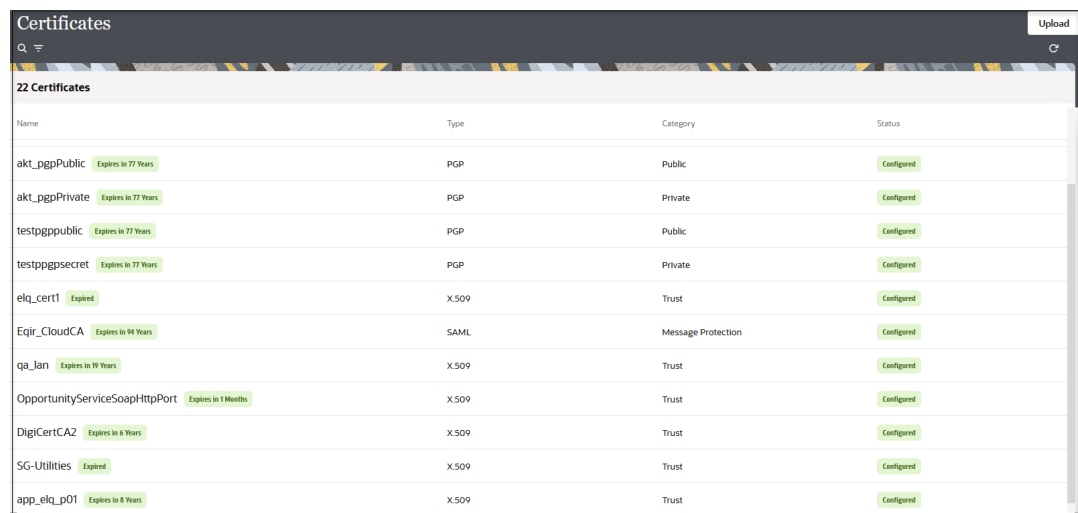
2. Wait for a message about the results of the connection test.
 - If the test was successful, then the connection is configured properly.
 - If the test failed, then edit the configuration details you entered. Check for typos and verify URLs and credentials. Continue to test until the connection is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

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 certificate expiration date, status, and type. Certificates installed by the system cannot be deleted.



Name	Type	Category	Status
akt_pgppublic <small>Expires in 77 Years</small>	PGP	Public	Configured
akt_pgpprivate <small>Expires in 77 Years</small>	PGP	Private	Configured
testpgppublic <small>Expires in 77 Years</small>	PGP	Public	Configured
testpgppsecret <small>Expires in 77 Years</small>	PGP	Private	Configured
elq_cert1 <small>Expired</small>	X.509	Trust	Configured
Eqir_CloudCA <small>Expires in 94 Years</small>	SAML	Message Protection	Configured
qa_lan <small>Expires in 19 Years</small>	X.509	Trust	Configured
OpportunityServiceSoapHttpPort <small>Expires in 3 Months</small>	X.509	Trust	Configured
DigiCertCA2 <small>Expires in 6 Years</small>	X.509	Trust	Configured
SG-Utilities <small>Expired</small>	X.509	Trust	Configured
app_elq_p01 <small>Expires in 8 Years</small>	X.509	Trust	Configured

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 RSA Signature Validation 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 Oracle NetSuite REST Adapter Connection to an Integration

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

The following sections describe the wizard pages that guide you through configuration of the Oracle NetSuite REST Adapter as an invoke in an integration.

Topics:

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

Basic Info Page

Specify a name and description, then select the operation type and action you want to execute using this 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: <ul style="list-style-type: none">• No blank spaces (for example, My 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.
Select Operation Type	Select the operation you want to perform. You can select one of the following operations: <ul style="list-style-type: none">• CRUD• SuiteQL Search• Asynchronous Operations• RESTlet calls• Dataset
Action	Select the action for your operation.

Configuration Page

Configure the Oracle NetSuite REST Adapter based on the operation you selected on the Basic Info page.

- [Operation Type: CRUD](#)
- [Operation Type: SuiteQL Search](#)
- [Operation Type: Asynchronous Operations](#)
- [Operation Type: RESTlet Calls](#)
- [Operation Type: Dataset](#)

Operation Type: CRUD

Select the object, operation, and request type to execute your operation.

Element	Description
Select Object	Select the object on which to perform the operation. For example: account .
Select Operation	Select the operation to perform. For example: Get list of records or Get record .
Request Type	Select the request type: <ul style="list-style-type: none"> • Synchronous If you select Synchronous, the results appear immediately in the response, and no additional steps are required. This option is best suited for data less than 104 MB in size. • Asynchronous If you select Asynchronous, the response contains only a job ID. Use this job ID to check the job status and retrieve the task ID. Once you have both the job ID and task ID, you can fetch the complete results using the Fetch Async Result operation. This option is suitable for actions operating on long running requests (a REST request greater than 104 MB in size).

Operation Type: SuiteQL Search

Provide the SuiteQL query, binding parameters (along with data type and value), and request type.

Element	Description
SuiteQL Query	Write the SuiteQL query you want to execute. Note: Only <code>Select</code> statements are supported.
Binding Parameters	If your query includes binding parameters (marked as <code>#parameterName</code>), list them in the table along with their data type and value. Note: Ensure that the parameter names you provide match exactly with the names used in the SuiteQL query to avoid errors.
Request Type	Select the SuiteQL query operation to be synchronous or asynchronous.

Operation Type: Asynchronous Operations

The Oracle NetSuite REST Adapter supports three types of actions under asynchronous operations:

- **Check Job Status**
 - **Retrieve Task ID**
 - **Fetch Async Result**
1. Select **Check Job Status** to find the status of an asynchronous operation (CRUD/SuiteQL) that you performed earlier.
 2. Select **Retrieve Task ID** to fetch the task ID in the response.
 3. Use this task ID and job ID to retrieve the final output using the **Fetch Async Result** operation.

The following table describes how to configure this action.

Element	Description
Choose the type of asynchronous request that was initiated - CRUD operation or SuiteQL Search	Select the operation type: <ul style="list-style-type: none"> • CRUD • SuiteQL Search
Choose how to generate the response mapper for the asynchronous SuiteQL operation (Appears for the SuiteQL Search operation type.)	Select how you want to generate the response mapper: <ul style="list-style-type: none"> • SQL • JSON
Async Operation Object (Appears for the CRUD operation type.)	Select the object on which you performed the CRUD operation (request type: asynchronous). For example: account .
Async Operation Type (It should be action) (Appears for the CRUD operation type.)	Select the operation/action that you selected while performing the CRUD operation (request type: asynchronous). For example: Get list of records .
SQL Query (Appears if generating a response mapper using SQL.)	Provide the SQL query used in the asynchronous request to populate the response mapper.
JSON (Appears if generating a response mapper using JSON.)	Provide a sample JSON payload to generate the response mapper for your asynchronous query.

Operation Type: RESTlet Calls

The RESTlet operation type supports two actions:

- **Create using RESTlet**
- **Retrieve using RESTlet**

The following table describes how to configure these actions.

Element	Description
Script ID	Enter the script ID associated with the RESTlet script deployed on the NetSuite application.
Deploy ID	Enter the deploy ID associated with the RESTlet script deployed on the NetSuite application.
Sample JSON Request	Enter the sample JSON request payload.
Sample JSON Response	Enter the sample JSON response payload.
Parameter Key and Parameter Type	Optionally add an extra parameter to the script by providing a parameter key (name) and data type. Values for these parameters can be provided at runtime. Ensure that you provide values of the same data type to avoid any errors.

Operation Type: Dataset

The Dataset operation type supports two actions:

- **Get List of Datasets**
- **Execute Datasets**

When you select **Execute Datasets** as the action, the Configuration page is displayed. In the **Select Dataset** field, choose the required dataset from the drop-down list.

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>

4

Implement Common Patterns Using the Oracle NetSuite REST Adapter

You can use the Oracle NetSuite REST Adapter to implement the following common pattern.

Topics:

- [Create a Customer in NetSuite Whenever a Company is Created in HubSpot](#)

Create a Customer in NetSuite Whenever a Company is Created in HubSpot

You can automatically create a customer record in NetSuite whenever a new company is created in the HubSpot application using Oracle Integration.

This use case provides an overview of Oracle NetSuite REST Adapter features with the invoke role, data mapping, and integration workflow.

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

- HubSpot Adapter: Configured as a trigger connection to capture the Company Creation event in HubSpot.
- HubSpot Adapter: Configured as an invoke connection to perform a Query operation to fetch complete company details.
- Oracle NetSuite REST Adapter: Configured as an invoke connection to perform the Insert Record (Customer) operation to create a new customer in NetSuite.

This implementation pattern provides an overview of the steps:

1. Create a HubSpot Adapter as trigger and invoke connections and an Oracle NetSuite REST Adapter as an invoke connection.
2. Create a new application integration.
3. Drag the HubSpot Adapter into the integration canvas as a trigger connection.
4. Configure the HubSpot Adapter endpoint as follows:
 - a. On the Basic Info page, provide an endpoint name.
 - b. On the Operation Page, select **Company** as the object and **creation** as the event type.
 - c. On the Summary page, review and confirm your selections.
5. Drag the HubSpot Adapter into the integration canvas as an invoke connection.
6. Configure the HubSpot Adapter endpoint as follows:
 - a. On the Basic Info page, provide an endpoint name.
 - b. On the Action page, select **Query information** as the action.
 - c. For the query information on the Operation page, select **companies** as the object and **Retrieve record by Id** as the operation.

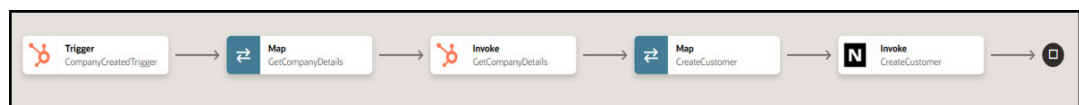
- d. On the Summary page, review and confirm your selections.
7. Use the mapper to map the data created in the **Company Create event** HubSpot Adapter trigger connection to the **Get company details** object created using the HubSpot Adapter invoke connection.
8. Drag the Oracle NetSuite REST Adapter into the integration canvas as an invoke connection.
9. Configure the Oracle NetSuite REST Adapter endpoint as follows:
 - a. On the Basic Info page, provide an endpoint name and select **CRUD** as the operation type and **Post** as the action.
 - b. On the Configuration page, make the following selections:
 - i. **Object: Customer**
 - ii. **Operation: Insert record**
 - iii. **Request type: Synchronous**
 - c. On the Summary Page, review and confirm your selections.
10. Use the mapper to map the company details from the HubSpot Adapter invoke connection to the Oracle NetSuite REST Adapter invoke connection object's message structure.
11. When complete, activate the integration.

Once activated, this integration is automatically triggered whenever a new company is created in HubSpot.

When the HubSpot Company Create event occurs, the following tasks are performed:

- The integration starts and fetches the complete company details using the HubSpot Query operation.
- After retrieving the full record, the integration maps the company information to the corresponding fields required for creating a customer in NetSuite.
- The mapped data is sent to NetSuite through the Insert record operation, resulting in the automatic creation of a new Customer record in the NetSuite application.

The complete integration looks as follows:



5

Troubleshoot the Oracle NetSuite REST Adapter

Review the following topic to learn about troubleshooting issues with the Oracle NetSuite REST Adapter.

Topics:

- [Known Issues in Oracle NetSuite REST Adapter](#)

Known Issues in Oracle NetSuite REST Adapter

The following issues have been identified in the Oracle NetSuite REST Adapter due to recent metadata updates from the NetSuite application. These issues may impact existing integrations and certain operations.

Note

These issues and their resolution date are currently under review.

Issue	Description	Error Message
The response mapper does not populate header values.	Header values are visible in the activity stream, but not populated in the Oracle Integration user interface response mapper during runtime.	N/A
The Employee object mapper fails to load.	The mapper fails to load for the Employee object.	String value length (40042496) exceeds the maximum allowed (40000000, from 'StreamReaderConstraints.getMaxStringLength()')

Issue	Description	Error Message
An HTTP 415 error occurs during asynchronous operations (Post/Patch/Put).	An HTTP 415 error is observed when invoking APIs through Oracle Integration.	<pre>{ "type": "https://www.rfc-editor.org/rfc/rfc9110.html#section-15.5.16", "title": "Unsupported Media Type", "status": 415, "o:errorDetails": [{ "detail": "The provided content type is not supported. Use one of the supported values: application/vnd.oracle.resource+json; type=singular; charset=UTF-8, application/vnd.oracle.resource+json; type=collection; charset=UTF-8, application/json; charset=UTF-8.", "o:errorHeader": "Content-type", "o:errorCode": "INVALID_CONTENT" }] }</pre>
An execution failure occurred for the My Transactions data set.	The execution of data sets succeeds for all data set types except for My Transactions. An error is encountered when attempting to execute this data set, both in Oracle Integration and through Postman.	<pre>Flow Execution Error: Workflow: GetDatasetResponseFlow, State: startState, Action: getNetSuiteDataFunction</pre>
Newly introduced operations are not functioning.	Newly introduced operations (such as Update Records, Insert, Update Records, and others) are not functioning correctly across objects.	N/A

Issue	Description	Error Message
Bulk operation (Insert/Update) execution issues occur.	Bulk operations: <ul style="list-style-type: none"> • Show inconsistent behavior and may fail during execution. • Are not working in Postman. 	<pre> { "type": "https://www.rfc-editor.org/rfc/rfc9110.html#section-15.5.16", "title": "Unsupported Media Type", "status": 415, "o:errorDetails": [{ "detail": "The provided content type is not supported. Use one of the supported values: application/vnd.oracle.resource+json; type=singular; charset=UTF-8, application/vnd.oracle.resource+json; type=collection; charset=UTF-8, application/vnd.oracle.resource+json; type=singular; charset=UTF-8, application/vnd.oracle.resource+json; type=collection; charset=UTF-8." }] "o:errorHeader": "Content-type", "o:errorCode": "INVALID_CONTENT" } </pre>