Oracle® Cloud

Import Customers and Credit Card Transactions from SAP ASE (Sybase) to Oracle Unity

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Preface

This document describes how to install, configure, and run this recipe in Oracle Integration 3.

Topics:

- Documentation Accessibility
- Diversity and Inclusion
- Related Resources
- Conventions

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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

For more information, see these Oracle resources:

- Oracle Integration documentation on the Oracle Help Center.
- Oracle Cloud at http://cloud.oracle.com.

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.

Convention	Meaning
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.

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About This Recipe

Use this recipe to import customers and credit card transactions from SAP ASE (Sybase) to Oracle Unity.

> **Note:**
>
> This recipe is available as **SAP ASE (Sybase) — Oracle Unity | Import Customers and Transactions** in Oracle Integration. Oracle provides this recipe as a sample only. The recipe is meant only for guidance, and is not warranted to be error-free. No support is provided for this recipe.

Overview

This recipe imports customer records and credit card transaction data from SAP ASE (Sybase) to Oracle Unity.

To use the recipe, you must install the recipe project and configure the connections and other resources within it. You can activate and run the integration flows manually or specify execution schedules for them. To fetch customer records from SAP ASE (Sybase) and import them to Oracle Unity, run the **Oracle Sybase Unity Customer Synch** integration flow. Similarly, to fetch credit card transaction records from SAP ASE (Sybase) and import them to Oracle Unity, run the Oracle **Sybase Unity CC Transaction Sync** integration flow.

System and Access Requirements

- Oracle Integration, Version 24.10 or higher
- SAP ASE (Sybase)
- An account on SAP ASE Sybase with the Administrator role
- Oracle Unity
- An account on Oracle Unity with the Administrator role

Assumption

Ensure that the tables for customer profile data and transaction data are available in SAP ASE (Sybase) database.

Download create_table_query_sybase.sql for the sample table structure of the **CustomerProfile** table which stores customer profile data and **CustTransactions** table which stores transactions data.

> **Note:**
>
> More fields can be added, or another table may be used; the SAP ASE (Sybase) endpoint in the recipe may then be modified as necessary.

2

Before You Install the Recipe

You must perform the following configuration tasks on your SAP ASE (Sybase) and Oracle Unity instances in order to successfully connect to these external systems using Oracle Integration and import customers and credit card transactions.

Configure SAP ASE (Sybase)

To successfully connect to SAP ASE (Sybase) using Oracle Integration and import customers and credit card transaction data, you must perform certain configurations on SAP ASE (Sybase).

Perform the prerequisite tasks to access the SAP ASE database:

- Ensure that you have write permissions on the database.
- Ensure that you have the required permissions to run stored procedures and packages and SQL statements against the SAP ASE database.
- Know the database hostname or IP address and the port number.
- Know the database name.
- Know the user name and password for connecting to the database.
- Install the connectivity agent. The connectivity agent is required to connect Oracle Integration with an SAP ASE (Sybase) on-premises database. See Configure the Endpoint Access Type.
- Download a Java Database Connectivity (JDBC) .jar file and place it in the third-party lib folder while configuring the connectivity agent. A JDBC driver enables a Java application to interact with a database. See SAP ASE JDBC Driver.

Configure Oracle Unity

To configure Oracle Unity, see Prerequisites for Creating a Connection.

Create custom object for credit card transactions by adding fields such as **Card Number**, **Remarks**, **Status**, **Card Type**, **TRXAMT**, **TRXDATE**, **Customer ID** and so on. For generic instructions to create custom objects in Oracle Unity, see Creating custom data objects.

3

Install and Configure the Recipe

On your Oracle Integration instance, install the recipe to deploy and configure the integration and associated resources.

1. On the Oracle Integration Home page, in the **Get started** section, click **Browse store**.
2. Find the recipe you want to install, then click **Get**.

   A message confirms that the recipe was successfully installed, and the recipe card shows **In use**.

3. Click **Configure**  on the recipe to configure its resources.

   The project workspace opens, displaying all the resources of the recipe. Configure the following resources before you activate and run the recipe.

Configure the Oracle Sybase Connection

1. In the Connections section, click the connection name.
2. In the Properties section, enter the following details:

Field	Information to Enter
Host	Enter the host name of the database server.
Port	Enter the database server port number.
Database Name	Enter the database name.

3. In the Security section, enter the following details:

Field	Information to Enter
Security policy	Select **Username Password Token**.
Username	Enter the username. See Configure SAP ASE (Sybase).
Password	Enter the password.

4. In the Access type section, select **Connectivity agent** and associate an agent group:
   a. Click the **Associate agent group** button.
   b. In the Associate agent group pane, select the agent group.
   c. Click **Use**.
5. Click **Save**. If prompted, click **Save** again.
6. Click **Test** to ensure that your connection is successfully configured. In the resulting dialog, click **Test** again.

   A message confirms if your test is successful.

7. To return to the project workspace, click **Go back**  .

Configure the Oracle Unity Connection

1. In the Connections section, click the connection name.
2. In the Properties section, enter the URL to connect to Oracle Unity in the **Oracle Unity URL** field. For example: `https://XXXXXX.cxunity.ocs.oraclecloud.com`.
3. In the Security section, enter the following details:

Field	Information to Enter
Access Token URI	Enter the authorization server that generates the access token.
Client ID	Enter the unique random string that matches the API console project.
Client Secret	Enter the unique random string that matches the API console project.
Username	Enter the Oracle Identity Cloud Service username of the OAuth token request.
Password	Enter the Oracle Identity Cloud Service password of the OAuth token request.
Scope	Enter the list of authorization permissions for the target application. For example, `read write`.

4. Click **Save**. If prompted, click **Save** again.
5. Click **Test** to ensure that your connection is successfully configured. In the resulting dialog, click **Test** again.

   A message confirms if your test is successful.
6. To return to the project workspace, click **Go back**  .

4

Activate and Run the Recipe

After you've configured the connections and other resources, you can activate and run the recipe.

1. In the project workspace, click **Activate**. In the Activate project panel, with the default project deployment selected, choose an appropriate tracing option, then click **Activate**.

   A message confirms that the integrations have been activated. Refresh the page to view the updated status of the integrations.

2. Update integration properties of the integration flows **Oracle Sybase Unity CC Transaction Sync** and **Oracle Sybase Unity Customer Synch**. You can update the integration properties of the integration flows only after activating them.

   a. In the Integrations section, click **Actions** ⋮ on the integration flow, then select **Update property values**.

   b. In the Update property values panel, update the integration properties with appropriate values.

      i. **integration_prop_EmailTo**: This integration property holds the email address to which run-time exception emails are sent. Enter an email address of your choice.

      ii. **integration_prop_RetryCount**: You can specify the maximum number of retries if any invoke fails at run time. Default value is 2.

      iii. **integration_prop_Limit**: The pagination limit where you can specify the number of records per page. The default value specified is 999 and maximum value is 1000.

   c. Click **Submit**.

      A message confirms that the integration properties have been updated successfully.

3. Run the recipe.

   To fetch customer records from SAP ASE (Sybase) to Oracle Unity run the **Oracle Sybase Unity CC Transaction Sync** integration flow. Similarly, to fetch credit card transactions from SAP ASE (Sybase) to Oracle Unity run the **Oracle Sybase Unity Customer Synch** integration flow.

   a. In the Integrations section of the project workspace, click **Actions** ⋮ on the integration flow, then select **Run**.

   b. On the Configure and run page, click **Run**.

      You've now successfully submitted the integration for execution.

      > **Note:**
      >
      > You can also schedule this integration to run at a date, time, and frequency of your choosing. See Define the Integration Schedule.

4. Monitor the running of the integration flows in Oracle Integration.

a. In the project workspace, click **Observe**. You'll see the integration flows being triggered and running successfully.

b. To manage errors in your project, see Manage Errors in a Project.

5. In the Oracle Unity application, run the data warehouse job to copy and validate the records from temporary table to main data object. Once the data warehouse job is completed, check the records in customer object and custom transaction object for customer sync and transaction sync respectively.

6. Log in to your Oracle Unity instance and check for the new customers and credit card transaction records created.

a. In the landing page, click **Data Viewer**.

b. To view the customers, in the **Search or search for data object** field, type `Customers`, then select the relevant object from the suggestions that appear.

A list of customers created appears.

c. To view the credit card transactions, in the **Search or search for data object** field, type `CustomTransactions`, then select the relevant object from the suggestions that appear.

A list of custom transactions appears.

Related Documentation

- *Using the SAP ASE (Sybase) Adapter with Oracle Integration 3*
- *Using the Oracle Unity Adapter with Oracle Integration 3*