



Informatica® Cloud Data Integration

Oracle Financials Cloud V1 Connector

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Preface

Use *Oracle Financials Cloud V1 Connector* to learn how to read from or write to the Oracle Financials Cloud application by using Cloud Data Integration. Learn to create an Oracle Financials Cloud V1 connection, develop and run mappings and mapping tasks in Cloud Data Integration.

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CHAPTER 1

Introduction to Oracle Financials Cloud V1 Connector

This chapter includes the following topics:

- [Oracle Financials Cloud V1 Connector overview, 7](#)
- [Oracle Financials Cloud V1 supported task types and object types, 7](#)
- [Administration of Oracle Financials Cloud V1 Connector, 9](#)

Oracle Financials Cloud V1 Connector overview

You can use Oracle Financials Cloud V1 Connector to connect to Oracle Financials Cloud application from Data Integration. Use Oracle Financials Cloud V1 Connector to read data from or write data to the Oracle Financials Cloud application.

You can use the Oracle Financials Cloud V1 Connector in a Source transformation, Target transformation, and midstream transformation in a mapping task.

Note: Oracle Financials Cloud V1 Connector does not support lookup and partition.

Oracle Financials Cloud V1 supported task types and object types

The following table lists the Oracle Financials Cloud V1 task and object types that you can include in Data Integration tasks:

Task Type	Source	Target	Midstream
Mapping	Yes	Yes	Yes

The following lists are the supported Oracle Financials Cloud V1 object types that you can include in a read operation:

- Payable Transactions Extract

- Receivable Transactions Extract
- Receipt Analysis Extract
- Receivable Billing History Extract
- Custom Extract
- Receivable Adjustment Extract
- Journal Extract
- Payment Extract
- Trial Balance Extract

The following lists are the supported Oracle Financials Cloud V1 object types that you can include in a write operation:

- AutoInvoice Import
- Billing Data Import
- Budgetary Control Budget Import
- Cash Management Cash Position Data Import
- Cash Management External Transactions Import
- Customer Import
- Fixed Asset Mass Additions Import
- Fixed Asset Mass Adjustments Import
- Fixed Asset Mass Retirements Import
- Fixed Asset Mass Transfers Import
- Import Segment Values and Hierarchies
- Import Units of Production
- Intercompany Transaction Import
- Journal Import
- Payables Standard Invoice Import
- Post Mass Update Descriptive Details
- Receivables Standard Receipt Import
- Revenue Basis Data Import
- Supplier Bank Account Import
- Tax Entry Repository Data Upload Interface

Administration of Oracle Financials Cloud V1 Connector

Before you use Oracle Financials Cloud V1 Connector to write data to the Oracle Financials Cloud application, you must perform the following prerequisite tasks:

1. To access the XLSM template files and CTL files for objects that require control files, select the specific Oracle Financials Cloud instance version from the **File-Based Data Import for Financials** page in the Oracle documentation.

For example, to access the XLSM template in the Oracle Financials Cloud instance 20A, go to the following URL:

<https://docs.oracle.com/en/cloud/saas/financials/20a/oefbf/overview.html#overview>

2. Select the required operation that you want to use that are listed under the **File-Based Data Imports** section .
The selected operation page appears.
3. Click the XLSM template file link to download the XLSM template file of the operation from the **File Links** section.
The following images shows a sample XLSM template file link that you must download from the **File Links** section:

File Links

File	Link
XLSM template	AutoInvoiceImportTemplate.xlsm

4. Ensure that you have access to the machine where the Secure Agent is installed or to the directory path that you have specified in the **IO Directory** connection property.
5. Place the XLSM template file in the following directory path that is specified in the **IO Directory** connection property: `IO Directory/Writer/Schema`
For the following write objects, you must place the XLSM template file and the CTL file in the directory:
 - Billing Data Import
 - Revenue Basis Data Import
 - AutoInvoice Import

Note: Retain the name of the XLSM template file or the CTL file as provided by Oracle to create a mapping using the operation that you selected. Only when you retain the file names, the file names appear in the **Object Selection** window.

Obtain the ERP Endpoint URL

Before you create an Oracle Financials Cloud V1 connection to read or write data from the Oracle Financials Cloud application, you must obtain the ERP Endpoint URL of the Oracle Financials Cloud application.

Perform the following steps to obtain the ERP Endpoint URL:

1. In the Oracle Financials Cloud application, click **Navigator**.
2. Click **Developer Connect** in the **Tool** section.
3. In the **WebServices** section, type **ERP Integration Service** in the **Find** field.

The **Web Service: ERP Integration Service: Summary** page appears that displays the ERP Endpoint URL. The following example shows a sample ERP Integration Service end point URL:

```
https://adc-fap0011-fin.oracle-demos.com:443/publicFinancialCommonErpIntegration/  
ErpIntegrationService
```

4. Edit the URL by removing the following path: 443/publicFinancialCommonErpIntegration/
ErpIntegrationService

The following URL is a sample of the ERP Endpoint URL:

```
https://adc-fap0011-fin.oracle-demos.com
```

CHAPTER 2

Oracle Financials Cloud V1 Connections

This chapter includes the following topics:

- [Oracle Financials Cloud V1 connections overview, 11](#)
- [Oracle Financials Cloud V1 connections properties, 11](#)
- [Configuring proxy settings, 13](#)

Oracle Financials Cloud V1 connections overview

Create an Oracle Financials Cloud V1 connection to connect to the Oracle Financials Cloud application. Use Oracle Financials Cloud V1 connection to read data from and write data to the Oracle Financials Cloud application. You can use an Oracle Financials Cloud V1 connections to specify sources or targets in mappings and mapping tasks.

You can create an Oracle Financials Cloud V1 connection in the **Connections** page.

Oracle Financials Cloud V1 connections properties

The following table describes the Oracle Financials Cloud V1 connection properties:

Connection Property	Description
Runtime Environment	The name of the runtime environment where you want to run the tasks.
ERP Endpoint URL	<p>The endpoint URL of the Oracle Financials application server.</p> <p>Note: To validate the ERP Endpoint URL, type the following URL in the web browser:</p> <p><ERP Endpoint URL>/publicFinancialCommonErpIntegration/ErpIntegrationService?WSDL</p> <p>The URL should open a WSDL file which indicates that the ERP Endpoint URL is valid.</p>

Connection Property	Description
Authentication Type	The type of user authentication to connect to the Oracle Financials Cloud application. You can select Basic Authentication type.
Username	User name of the Oracle Financials Cloud account.
Password	Password for the Oracle Financials Cloud account.
IO Directory	<p>The directory path where the schema files and data are stored. You must store the schema files in the machine on which the Secure Agent is installed.</p> <p>You must click the Test button after you create an Oracle Financials Cloud V1 connection.</p> <p>The Secure Agent creates following directories under the IO directory:</p> <ul style="list-style-type: none"> - Reader: The reader directory contains an Output sub-directory. The .cvs file that you download from the Oracle Financials Cloud application are downloaded as a zip file and stored in the following directory: <code>IO Directory\Reader\Output</code> - Note: You can override the directory path where you download the CSV file in the Outbound_Output_Directory advanced property field. - Writer: The writer directory contains Logs and Schema sub-directories. You must place all the XLSM and CTL files after you download them in the following directory: <code>IO Directory\Writer\Schema</code> - Temp: The temp directory contains a WorkingDirectory sub-directories that contains the staging files before loading.
Encryption Mode	<p>The encryption type you want to use to encrypt or decrypt the data. Select one of the following options:</p> <p>NONE</p> <p>The data is not encrypted.</p> <p>PGPUNSIGNED</p> <p>Select this option to encrypt the data using the PGP encryption method.</p> <p>You must use the same encryption key that you configured in the Oracle Financials Cloud application.</p> <p>PGPSIGNED</p> <p>Select this option to encrypt and sign the data using the PGP encryption method.</p> <p>Note: Use the PGPUNSIGNED and PGPSIGNED options when you run a mapping to write data to a target.</p>
PassPhrase	<p>The passphrase that you used to encrypt the private key.</p> <p>Note: Use this property when you use the PGPSigned encryption method and run a mapping to write data to a target.</p>
PrivateKey Path	<p>The file path of the private key. You must store the private key in the machine on which the Secure Agent is installed.</p> <p>You must provide the private key corresponding to the public key that you uploaded in Oracle Financials Cloud application.</p> <p>Note: Use this property when you use the PGPSigned encryption method and run a mapping to write data to a target.</p>

Connection Property	Description
ERP Public Key Path	The file path of the fusion public key. You must store the fusion public key in the machine on which the Secure Agent is installed. You must raise a service request to Oracle Financials Cloud to retrieve the fusion public key. Note: Use this property when you run a mapping to write data to a target. For more information about the fusion public key, refer the Oracle documentation.
ERP Private Key Alias Name	The fusion key alias name that you provided when you generated the private-public key pair in the Oracle Financials application. Note: Use this property when you run a mapping to write data to a target.
Customer Public Key Alias Name	The customer public key alias name that you have provided when you uploaded the public key in the Oracle Financials application. Note: Use this property when you use the PGPSigned encryption method and run a mapping to write data to a target.

Configuring proxy settings

If your organization uses an outgoing proxy server to connect to the internet, the Secure Agent connects to Informatica Intelligent Cloud Services through the proxy server.

Contact your network administrator for the correct proxy settings.

Configuring the proxy settings on Windows

To configure the proxy server settings for the Secure Agent on a Windows machine, you must configure the proxy server settings through the Secure Agent Manager and the JVM options of the Secure Agent.

1. Click **Start > All Programs > Informatica Cloud Secure Agent > Informatica Cloud Secure Agent** to launch the Secure Agent Manager.

The Secure Agent Manager displays the Secure Agent status.

2. Click **Proxy** in the Secure Agent Manager page.
3. Click **Use a Proxy Server** to enter proxy server settings.
4. Configure the following proxy server details:

Field	Description
Proxy Host	Required. Host name of the outgoing proxy server that the Secure Agent uses.
Proxy Port	Required. Port number of the outgoing proxy server.
User Name	User name to connect to the outgoing proxy server.
Password	Password to connect to the outgoing proxy server.

5. Click **OK**.
6. Log in to Informatica Intelligent Cloud Services.

7. Open Administrator and select **Runtime Environments**.
8. Select the Secure Agent for which you want to configure a proxy server.
9. On the upper-right corner of the page, click **Edit**.
10. In the **System Configuration Details** section, select the **Type** as **DTM** for the Data Integration Service.
 - To use an unauthenticated proxy server, add the following parameters in any **JVMOption** field and specify appropriate values for each parameter:

Parameter	Description
-Dhttp.proxyHost=	Host name of the outgoing HTTP proxy server.
-Dhttp.proxyPort=	Port number of the outgoing HTTP proxy server.
-Dhttps.proxyHost=	Host name of the outgoing HTTPS proxy server.
-Dhttps.proxyPort=	Port number of the outgoing HTTPS proxy server.

For example,

```
JVMOption1=-Dhttp.proxyHost=<proxy_server_hostname>
JVMOption2=-Dhttp.proxyPort=8081
JVMOption3=-Dhttps.proxyHost=<proxy_server_hostname>
JVMOption4=-Dhttps.proxyPort=8081
```

- To use an authenticated proxy server, add the following parameters in any **JVMOption** field and specify appropriate values for each parameter:

Parameter	Description
-Dhttp.proxyHost=	Host name of the outgoing HTTP proxy server.
-Dhttp.proxyPort=	Port number of the outgoing HTTP proxy server.
-Dhttp.proxyUser=	User name for the HTTP proxy server.
-Dhttp.proxyPassword=	Password for the user.
-Dhttps.proxyHost=	Host name of the outgoing HTTPS proxy server.
-Dhttps.proxyPort=	Port number of the outgoing HTTPS proxy server.
-Dhttps.proxyUser=	User name for the HTTPS proxy server.
-Dhttps.proxyPassword=	Password for the user.

For example,

```
JVMOption1=-Dhttp.proxyHost=<proxy_server_hostname>
JVMOption2=-Dhttp.proxyPort=8008
JVMOption3=-Dhttp.proxyUser=adminuser
JVMOption4=-Dhttp.proxyPassword=password
```

```
JVMOption5=-Dhttps.proxyHost=<proxy_server_hostname>
JVMOption6=-Dhttps.proxyPort=8008
JVMOption7=-Dhttps.proxyUser=adminuser
JVMOption8=-Dhttps.proxyPassword=password
```

Note: You can configure only five **JVMOption** fields in the **System Configuration Details** section. To configure the remaining parameters, you must add the **JVMOption** fields in the **Custom Configuration Details** section. In the **Custom Configuration Details** section, select the **Type** as **DTM** for the Data Integration Service, add the **JVMOption** fields, and specify the remaining parameters and appropriate values for each parameter.

11. Click **Save**.

The Secure Agent restarts to apply the settings.

Configuring the proxy settings on Linux

You can update the proxy server settings defined for the Secure Agent from the command line. To configure the proxy server settings for the Secure Agent on a Linux machine, you must use a shell command and configure the JVM options of the Secure Agent.

1. Navigate to the following directory:

```
<Secure Agent installation directory>/apps/agentcore
```

2. To configure proxy, enter the following command:

```
consoleAgentManager.sh configureProxy <proxy host> <proxy port> <proxy user name> <proxy password>
```

3. Log in to Informatica Intelligent Cloud Services.
4. Open Administrator and select **Runtime Environments**.
5. Select the Secure Agent for which you want to configure a proxy server.
6. On the upper-right corner of the page, click **Edit**.
7. In the **System Configuration Details** section, select the **Type** as **DTM** for the Data Integration Service.
 - To use an unauthenticated proxy server, add the following parameters in any **JVMOption** field and specify appropriate values for each parameter:

Parameter	Description
-Dhttp.proxyHost=	Host name of the outgoing HTTP proxy server.
-Dhttp.proxyPort=	Port number of the outgoing HTTP proxy server.
-Dhttps.proxyHost=	Host name of the outgoing HTTPS proxy server.
-Dhttps.proxyPort=	Port number of the outgoing HTTPS proxy server.

For example,

```
JVMOption1=-Dhttp.proxyHost=<proxy_server_hostname>
JVMOption2=-Dhttp.proxyPort=8081
JVMOption3=-Dhttps.proxyHost=<proxy_server_hostname>
JVMOption4=-Dhttps.proxyPort=8081
```

- To use an authenticated proxy server, add the following parameters in any **JVMOption** field and specify appropriate values for each parameter:

Parameter	Description
-Dhttp.proxyHost=	Host name of the outgoing HTTP proxy server.
-Dhttp.proxyPort=	Port number of the outgoing HTTP proxy server.
-Dhttp.proxyUser=	User name for the HTTP proxy server.
-Dhttp.proxyPassword=	Password for the user.
-Dhttps.proxyHost=	Host name of the outgoing HTTPS proxy server.
-Dhttps.proxyPort=	Port number of the outgoing HTTPS proxy server.
-Dhttps.proxyUser=	User name for the HTTPS proxy server.
-Dhttps.proxyPassword=	Password for the user.

For example,

```
JVMOption1=-Dhttp.proxyHost=<proxy_server_hostname>
JVMOption2=-Dhttp.proxyPort=8008
JVMOption3=-Dhttp.proxyUser=adminuser
JVMOption4=-Dhttp.proxyPassword=password
JVMOption5=-Dhttps.proxyHost=<proxy_server_hostname>
JVMOption6=-Dhttps.proxyPort=8008
JVMOption7=-Dhttps.proxyUser=adminuser
JVMOption8=-Dhttps.proxyPassword=password
```

Note: You can configure only five **JVMOption** fields in the **System Configuration Details** section. To configure the remaining parameters, you must add the **JVMOption** fields in the **Custom Configuration Details** section. In the **Custom Configuration Details** section, select the **Type** as **DTM** for the Data Integration Service, add the **JVMOption** fields, and specify the remaining parameters and appropriate values for each parameter.

8. Click **Save**.

The Secure Agent restarts to apply the settings.

CHAPTER 3

Mappings and mapping tasks with Oracle Financials Cloud V1 Connector

This chapter includes the following topics:

- [Oracle Financials Cloud V1 source transformation in mappings, 17](#)
- [Oracle Financials Cloud V1 target transformation in mappings, 22](#)
- [Oracle Financials Cloud V1 midstream transformation in mappings, 25](#)
- [Parameterization, 29](#)

Oracle Financials Cloud V1 source transformation in mappings

When you configure a Source transformation, select an Oracle Financials Cloud V1 connection and choose an Oracle Financials Cloud operation to represent an Oracle Financials Cloud V1 source.

When you read data from the Oracle Financials Cloud application and write data to a target, the target contains only the status of the read operation. The `.csv` files are downloaded as a zip in the following directory on the machine that runs the Secure Agent: `IO Directory\Reader\Output`

To access the `.csv` files, you must have the access to the directory or the machine that runs the Secure Agent.

Source Transformation properties

You can use one or more Source transformations in a mapping.

General

Use to configure the name and a description for the source.

Source

Use to select the connection and operation. You can configure the request options and advanced source properties.

Field Mapping

Use to map elements of the response structure with the output fields.

Fields

Use to edit the source field metadata that you want to use in the mapping.

Oracle Financials Cloud V1 advanced source properties in mappings

In a mapping, you can configure or create a Source transformation and configure the advanced properties in the **Source** page of the Mapping Task wizard.

The following table describes the advanced properties that you can configure in a Source transformation:

Property	Description
Inbound_Parameter_List	<p>Enter the values of the argument in order and use a comma to separate the argument values for the selected object.</p> <p>For example, enter the value in the following manner: 300000046975980,Balance Transfer, 300000046975971,ALL,N,N,N</p> <p>For more information about obtaining the value of the Inbound_Parameter_List property, see https://kb.informatica.com/howto/6/Pages/20/519421.aspx?myk=519421</p> <p>Note: Use this property when you run a mapping to write data to a target.</p>
Outbound_Output_Directory	<p>Enter the directory path where you want to download the .csv files on the machine that runs the Secure Agent .</p> <p>By default, the .csv files are downloaded as a zip file in the <code>IO Directory\Reader\Output</code> directory.</p> <p>If you provide a directory path in this property, the Secure Agent downloads the .csv files in the directory path that you specify here and ignores the default directory path.</p> <p>Note: Use this property when you run a mapping to read data from a source.</p>
Timeout_Value	<p>Specify the time in seconds for the connector to wait and initiate download of output logs and data. Default is 300 seconds.</p>
Tracing Level	<p>Amount of detail that appears in the log for the Source transformation. Use the following tracing levels:</p> <ul style="list-style-type: none">- Terse- Normal- Verbose Initialization- Verbose <p>Default is normal.</p>

Source Transformation mapping example

You can map an Oracle Financials Cloud V1 source to a target and use the mapping to perform a mapping task.

To read and download the data from the Oracle Financials Cloud application, perform the following tasks:

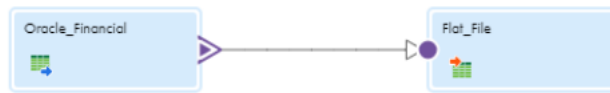
1. In Data Integration, click **New > Mapping > Create**.

The **New Mapping** dialog box appears.

2. Enter a name and description for the mapping.
3. On the **Source** tab, perform the following steps:

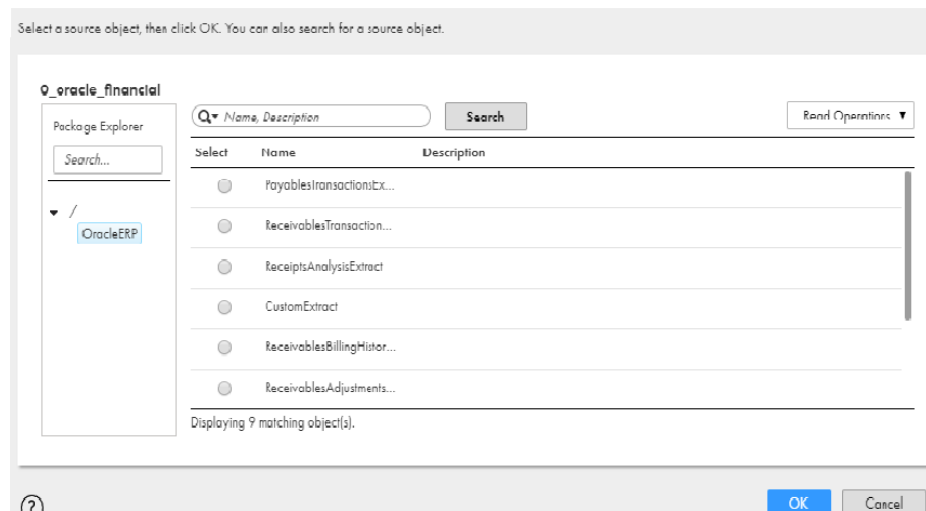
1. In the general properties, specify a name and description.

The following image shows a sample of the Oracle Financials Cloud V1 mapping:



2. In the **Connection** field, select the configured Oracle Financials Cloud V1 connection to connect to the Oracle Financials Cloud application.
 - a. In the **Operation** field, select the required object in the **Package Explorer** section and select the required operation.

The following image shows the list of the read operations:



Note: If you select the Custom Extract operation, you can provide your own custom arguments.

3. In the **Request Options** section, click **Configure** to configure the request message. Specify the request message and attributes in the XML format. Request messages are different for each of the objects. When you read data from the Oracle Financials Cloud application, you can extract the data using the following extract modes:
 - FULL_EXTRACT
 - INCREMENTAL_EXTRACT
 - INCR_DATE_UPDATE

- REGISTER_CUSTOM_EXTRACT

- RERUN_MODE

If you do not provide any argument value in the request message, the Secure Agent sets the P_EXTRACT_MODE extract mode to FULL_EXTRACT extract mode and sets the P_EXTRACT_NAME extract mode to the object name that you have selected.

The following example shows a sample request message for the Receivable Adjustment Extract object:

```
<!--1 or more repetitions:-->
<proc:REQUEST_MESSAGE_INPUT xmlns:proc="http://xml.schemas/infra/procedure/">
  <!--1 or more repetitions:-->
    <P_ORG_ID>
      300000046987012
    </P_ORG_ID>
    <!--1 or more repetitions:-->
    <P_ORDER_BY>
      ADJUSTMENT_NUMBER
    </P_ORDER_BY>
    <!--1 or more repetitions:-->
    <P_ADJ_NUMBER_LOW>
      <!--STRING-->
    </P_ADJ_NUMBER_LOW>
    <!--1 or more repetitions:-->
    <P_ADJ_NUMBER_HIGH>
      <!--STRING-->
    </P_ADJ_NUMBER_HIGH>
    <!--1 or more repetitions:-->
    <P_TRX_NUMBER_LOW>
      <!--STRING-->
    </P_TRX_NUMBER_LOW>
    <!--1 or more repetitions:-->
    <P_TRX_NUMBER_HIGH>
      <!--STRING-->
    </P_TRX_NUMBER_HIGH>
    <!--1 or more repetitions:-->
    <P_TAX_REGISTRATION_NUMBER>
      <!--STRING-->
    </P_TAX_REGISTRATION_NUMBER>
    <!--1 or more repetitions:-->
    <P_EXTRACT_MODE>
      FULL_EXTRACT
    </P_EXTRACT_MODE>
    <!--1 or more repetitions:-->
    <P_INCR_EXPORT_DATE>
      <!--DATE-->
    </P_INCR_EXPORT_DATE>
    <P_EXTRACT_DATE_FROM>
      <!--DATE-->
    </P_EXTRACT_DATE_FROM>
    <!--1 or more repetitions:-->
    <P_EXTRACT_DATE_TO>
      <!--DATE-->
    </P_EXTRACT_DATE_TO>
    <!--1 or more repetitions:-->
    <P_EXTRACT_NAME>
      ReceivablesAdjustmentsExtract
    </P_EXTRACT_NAME>
    <!--1 or more repetitions:-->
    <P_PARENT_EXTRACT_NAME>
      <!--STRING-->
    </P_PARENT_EXTRACT_NAME>
  </proc:REQUEST_MESSAGE_INPUT>
```

For the arguments that you did not provide values in the request message, the Secure Agent considers the values of the argument as null. By default, the Secure Agent considers the value of the

second last argument as the operation name. However, if you provide the value of the second last argument in the request message then the Secure Agent considers the value that you provide.

Note: If you encounter an error message when you validate the request message, you can ignore the error message and proceed. There is no impact in the output. However, if you want to remove the error message for the date type argument in the request message, you must provide the following XML code inside the date tag in the request message:

```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"
```

The following example shows a sample request message for the Custom Extract object:

```
<proc:REQUEST_MESSAGE_INPUT xmlns:proc="http://xml.schemas/infra/procedure/">
  <!--1 or more repetitions:-->
  <jobDefinitionName>
    <!--STRING-->
  </jobDefinitionName>
  <!--1 or more repetitions:-->
  <jobPackageName>
    <!--STRING-->
  </jobPackageName>
  <!--1 or more repetitions:-->
  <paramList>
    <!--STRING-->
  </paramList>
</proc:REQUEST_MESSAGE_INPUT>
```

Note: When you configure the Custom Extract object, you must include the **jobDefinitionName**, **jobPackageName**, and **paramList** parameter. When you define the **paramList** parameter, include comma separated values and if there are no parameters defined, include **#NULL**. To access the Custom Extract object, create custom user defined ESS job in the Oracle Financials Cloud Application.

The following image shows the parameters defined in the Job Definition page:

The screenshot shows the 'Edit Job Definition' page in Oracle Financials Cloud. The page has a header with the Oracle logo and navigation links. The main content area is titled 'Manage Enterprise Scheduler Job Definitions and Job Sets for Financial, Supply Chain Management, and Related Applications'. Below this, there are tabs for 'Manage Job Definitions', 'Manage List of Values Sources', and 'Manage Job Sets'. The 'Edit Job Definition' form is displayed, showing fields for 'Name' (RptBankReportESS), 'Path' (Rpt), 'Job Application Name' (FirmEss), 'Job Type' (BIPJobType), 'Class Name' (oracle.job.service.client.scheduler.BIPJobExecutable), 'Default Output Format' (TEXT), 'Report ID' (CustomRptBankReportJob), and 'Priority'. There are also checkboxes for 'Enable submission from Enterprise Manager' and 'Enable submission from Schedules Processes or via API'. Annotations include 'Name is JobDefinitionName Path is JobPackageName', 'BIP Report Path', and 'Select this checkbox to submit this ESS Job from Schedules Processes or via API'.

4. On the **Field Mapping** tab, select the elements in the response structure that you want to map to the output fields.

Select the check box and expand the option. Select **Map All Decendants > Output Group** to choose the source from where you want to read.

The following image shows the response structure on the left pane in a hierarchical format and the output groups on the right pane in a relational format:

Response Structure (5 of 5 mapped)			Output Fields	
Element Name	Cardinality	Field Name	Actions	Mapped Field
RESPONSE_MESSAGE_INPUT	1-1	RESPONSE_MESSAGE_INPUT		/RESPONSE_MESSAGE_INPUT
STATUS	1-1	STATUS		/STATUS
EXTRACT_NAME	1-1	EXTRACT_NAME		/EXTRACT_NAME
PROCESS_ID	1-1	PROCESS_ID		/PROCESS_ID
OUTPUT_DIRECTORY_LOCATION	1-1	OUTPUT_DIRECTORY_LOCATION		/OUTPUT_DIRECTORY_LOCATION
FILE_NAME	1-1	FILE_NAME		/FILE_NAME

- On the Target transformations, specify the target connection, target type, object, and operation for the target transformations.
- Map the source and target.
- Click **Save and Run** the mapping.
- In Data Integration, click **New > Task**.
- Click **Mapping Task > Create** and select the mapping for the task.

The following image shows the Mapping Task wizard with the applied mapping:

Task Details

Task Name: * OracleFinancialsCloudV1

Description:

Runtime Environment: * INW1PF0MT04G

Task Based On: ☒ Mapping ☐ Integration Template

Mapping: * Oracle Financials Cloud V1 Select...

Mapping Image:

```

graph LR
    Oracle_Financial[Oracle_Financial] --> Flat_File[Flat_File]
  
```

Oracle Financials Cloud V1 target transformation in mappings

When you configure a Target transformation, select an Oracle Financials Cloud V1 connection and choose an Oracle Financials Cloud operation to represent an Oracle Financials Cloud V1 target.

Target transformation properties

You can use one or more Target transformations in a mapping.

When you select a target transformation, the **Properties** panel displays the following sections:

General

Use to configure the name and a description for the target.

Incoming Fields

Includes the field rules that define the data written to the target. Allows a preview of the target fields.

Target

Use to select the connection and the operation, and to configure the advanced target properties.

Target Fields

Not applicable for an Oracle Financials Cloud V1 targets.

Field Mapping

Use to define the field mappings from the upstream transformation to the target.

Oracle Financials Cloud V1 advanced target properties in mappings

In a mapping, you can configure or create a Target transformation and configure the advanced properties in the **Target** page of the Mapping Task wizard.

The following table describes the advanced properties that you can configure in a Target transformation:

Property	Description
Inbound_Parameter_List	<p>Enter the values of the argument in order and use a comma to separate the argument values for the selected object.</p> <p>For example, enter the value in the following manner: 300000046975980,Balance Transfer, 300000046975971,ALL,N,N,N</p> <p>For more information about obtaining the value of the Inbound_Parameter_List property, see https://kb.informatica.com/howto/6/Pages/20/519421.aspx?myk=519421</p> <p>Note: Use this property when you run a mapping to write data to a target.</p>
Outbound_Output_Directory	<p>Enter the directory path where you want to download the .csv files on the machine that runs the Secure Agent .</p> <p>By default, the .csv files are downloaded as a zip file in the IO Directory\Reader\Output directory.</p> <p>If you provide a directory path in this property, the Secure Agent downloads the .csv files in the directory path that you specify here and ignores the default directory path.</p> <p>Note: Use this property when you run a mapping to read data from a source.</p>
Timeout_Value	<p>Specify the time in seconds for the connector to wait and initiate download of output logs and data. Default is 300 seconds.</p>

Input settings properties

You can enable **Sorted Input** under **Input Settings**. Sorted Input indicates that input data is presorted. Default is disabled.

Enable sorted input for better performance.

Note: When **Sorted Input** is enabled and the input is not sorted, the Secure Agent does not process input and the mapping fails.

Target transformation mapping example

You can map a source to an Oracle Financials Cloud V1 target and use the mapping to perform a mapping task.

To read data from a source and write to an Oracle Financials Cloud V1 target, perform the following tasks:

1. In Data Integration, click **New > Mapping > Create**.
The **New Mapping** dialog box appears.
2. Enter a name and description for the mapping.
3. On the Source transformation, specify a name and description in the general properties.
4. On the Target transformation and perform the following tasks on the **Target** tab:
 1. In the **Connection** field, select the Oracle Financials Cloud V1 connection to connect to Oracle Financials Cloud application.
 2. In the **Operation** field, select the required object in the **Package Explorer** section and select the required operation.
 3. In the **Advanced Properties** section, provide a value for the **Inbound_Parameter_List** property. You can set the cache size and the transaction commit interval.
5. On the **Field Mapping** tab, select the input elements to map to the target fields.

The following image shows all the mapped fields between the input file and the Oracle Financials Cloud V1 target:

The screenshot shows the 'Target Properties' dialog box with the 'Field Mapping' tab selected. The 'Input Fields' section on the left lists 9 fields: Status_Code, Ledger_ID, Effective_Date_of_Transaction, Journal_Source, Journal_Category, Currency_Code, Journal_Entry_Creation_Date, Actual_Flag, and seven Segments. The 'Target Fields' section on the right lists 9 corresponding fields: Status_Code*, Ledger_ID*, Effective_Date_of_Transaction*, Journal_Source*, Journal_Category*, Currency_Code*, Journal_Entry_Creation_Date*, Actual_Flag*, and seven Segments. Each input field is checked and mapped to its corresponding target field.

Field	Key
✓ Status_Code	
✓ Ledger_ID	
✓ Effective_Date_of_Transaction	
✓ Journal_Source	
✓ Journal_Category	
✓ Currency_Code	
✓ Journal_Entry_Creation_Date	
✓ Actual_Flag	
Segment1	
Segment2	
Segment3	
Segment4	
Segment5	
Segment6	
Segment7	

Element Name	Mapped Field
✓ Status_Code*	Source_Status_C
✓ Ledger_ID*	Source_Ledger_ID
✓ Effective_Date_of_Transaction*	Source_Effective_
✓ Journal_Source*	Source_Journal_S
✓ Journal_Category*	Source_Journal_C
✓ Currency_Code*	Source_Currency
✓ Journal_Entry_Creation_Date*	Source_Journal_I
✓ Actual_Flag*	Source_Actual_FI
Segment1	
Segment2	
Segment3	
Segment4	
Segment5	
Segment6	
Segment7	

6. Map the source and target.
7. Click **Save and Run** the mapping.
8. In Data Integration, click **New > Task**.
9. Click **Mapping Task > Create** and select the mapping for the task.

Oracle Financials Cloud V1 midstream transformation in mappings

Before you configure a midstream transformation, you must create a business service. Select an Oracle Financials Cloud V1 connection and choose an Oracle Financials Cloud operation when you create a business service.

Midstream transformation properties

When you configure the midstream transformation, select the business service and the operation on the **Web Service** tab.

When you select a midstream transformation, the **Properties** panel displays the following areas and information:

General

Use to configure the name and a description for the transformation.

Incoming Fields

Includes the field rules that define the data that you read from the source. Allows a preview of the source fields.

Web Service

Specifies the business service and the operation that you want to perform in an Oracle Financials Cloud application.

Request Mapping

Maps the incoming fields from source file to elements in request structure.

Response Mapping

Maps the selected elements from the response structure with the output fields. You can view the response structure on the **Response Mapping** tab. When you map the elements from the response structure to the output fields, the Secure Agent creates the output groups, along with the primary and foreign keys for the field names.

Output Fields

Displays the fields included in the mapping.

Advanced

The properties required to configure a midstream transformation.

Oracle Financials Cloud V1 advanced midstream properties in mappings

The following table describes the advanced properties that you can configure for a midstream transformation:


Property	Description
Inbound_Parameter_List	<p>Enter the values of the argument in order and use a comma to separate the argument values for the selected object.</p> <p>For example, enter the value in the following manner: 300000046975980,Balance Transfer,300000046975971,ALL,N,N,N</p> <p>For more information about obtaining the value of the Inbound_Parameter_List property, see https://kb.informatica.com/howto/6/Pages/20/519421.aspx?myk=519421</p> <p>Note: Use this property when you run a mapping to write data to a target.</p>
Outbound_Output_Directory	<p>Enter the directory path where you want to download the .csv files on the machine that runs the Secure Agent .</p> <p>By default, the .csv files are downloaded as a zip file in the <code>IO Directory \Reader\Output</code> directory.</p> <p>If you provide a directory path in this property, the Secure Agent downloads the .csv files in the directory path that you specify here and ignores the default directory path.</p> <p>Note: Use this property when you run a mapping to read data from a source.</p>
Timeout_Value	<p>Specify the time in seconds for the connector to wait and initiate download of output logs and data. Default is 300 seconds.</p>
Cache Size for Web Service Request (KB)	<p>Memory available for the web service request. If the request is more than 100 KB, you can increase the cache size.</p> <p>Default is 100 KB.</p>
Cache Size for Web Service Response (KB)	<p>Memory available for the web service response. If the web service response contains many rows or columns, you might want to increase the cache size.</p> <p>Default is 100 KB.</p>
Allow Input Flush	<p>Not applicable.</p>
Transaction Commit Control	<p>Not applicable.</p>

Midstream transformation mapping example

To read data from an Oracle Financials Cloud V1 source and to write the data to a flat file, perform the following tasks:

1. Create an Oracle Financials Cloud V1 connection to read data from an Oracle Financials Cloud V1 source.
2. In Data Integration, click **New > Components > Business Service**.
The **Business Service Details** dialog box appears.

The following image shows the configured business service that associates an Oracle Financials Cloud V1 connection and an operation:

 BS_ERP_JOURNAL_WRITE

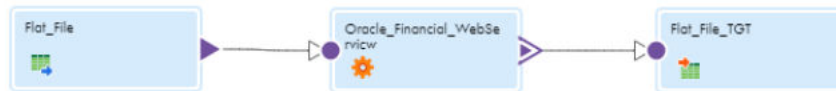
Business Service Details

Name: BS_ERP_JOURNAL_WRITE
 Location: Oracle ERP
 Description:
 Connection: 000_Oracle_ERP_Windows
 Created On: Apr 26, 2018 9:20:28 PM
 Updated On: Apr 26, 2018 9:20:28 PM
 Created By: t@t.com
 Updated By: t@t.com

Operations

Name	Origin Name	Description
JournalImportTemplate.xlsm	JournalImportTemplate.xlsm	

- On the Web Services transformation, specify a name and description in the general properties.
 The following image shows the source, web service, and target in the Oracle Financials Cloud V1 mapping:



- On the **Web Service** tab, select the business service and the operation that you configured.
 The following image shows the configured web service:

 Oracle_Financial_WebService Properties

General

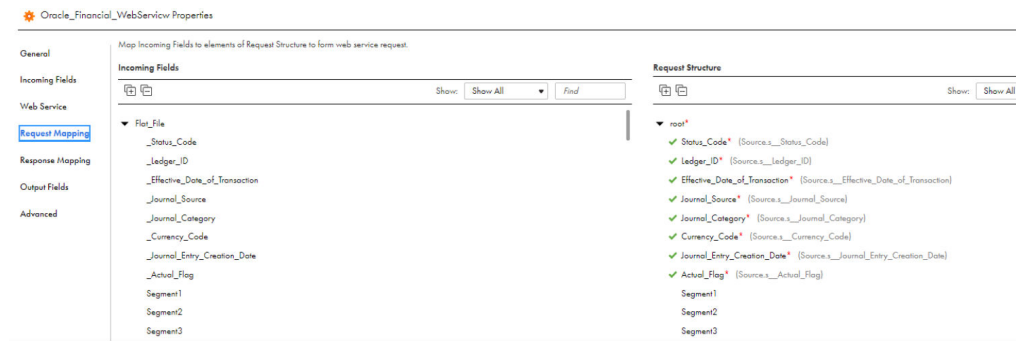
Business Service: ERP_JOURNAL_MPORT_WIN_WRITE Select...
 Operation: JournalImportTemplate.xlsm ▼

Web Service

Request Mapping
 Response Mapping
 Output Fields
 Advanced

- On the **Request Mapping** tab, map the incoming fields from the source to the elements of Request Structure to form a web service request.

The following image shows the fields that you map:



- On the **Response Mapping** tab, select the source details fields that you want to write to the target file on the **Response Structure**.

The following image shows the source details fields that you want to write to the target file:

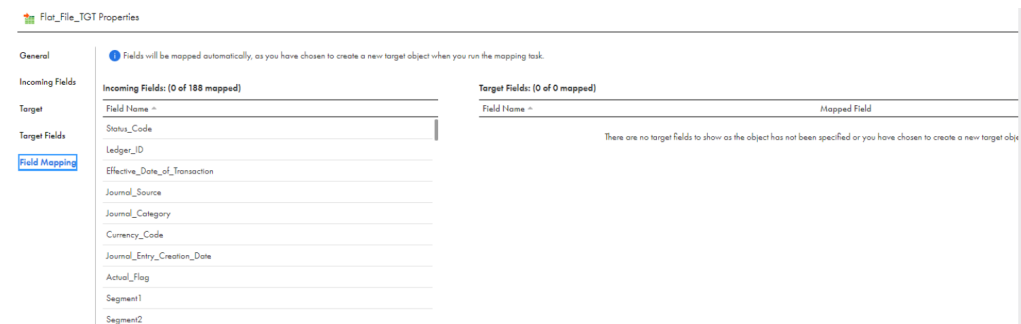


- On the **Advanced** tab, provide the value for the required advanced property. You can specify the cache size details.

The fields that you select from the **Response Structure** of the Web Service transformation appear as incoming fields for the target object.

- If required, map the incoming fields to the flat file fields.

The following image shows the mapped fields between the source field and the target field:



- Click **Task Wizards > Mapping Task**, and select the mapping for the task.
- When you save and run the mapping, the Secure Agent reads the data that you map on the **Request Mapping** tab from the Oracle Financials Cloud application and writes the data to the corresponding flat files.

Rules and guidelines for midstream transformation in mappings

Use the following rules and guidelines when you run a midstream transformation in a mapping:

- When you use a midstream transformation to read data, you must map all the arguments in the request message from a source.
- You must use expressions to convert the values of the date/time argument to date.
- You must provide the value for the date type argument in the `YYYY-MM-DD` format.
- You must not provide a null value for the date type argument in the request message. You must provide a real or a dummy value for the date type argument in the request message. However, there might be an impact in the output.

Parameterization

You can parameterize the Oracle Financials Cloud V1 source connection, target connection, the request message in the Source transformation, and the field mapping in the Source transformation.

CHAPTER 4

Troubleshooting

This chapter includes the following topics:

- [Troubleshooting overview, 30](#)
- [Troubleshooting Oracle Financials Cloud V1 tasks, 30](#)

Troubleshooting overview

Use the following sections to troubleshoot errors in Oracle Financials Cloud V1 Connector.

Troubleshooting Oracle Financials Cloud V1 tasks

When you select an Oracle Financials Cloud write object and navigate to the Field Mapping tab, you might encounter the following error message: Unable to load metadata for <write object> operation

Additionally, you might also encounter the following error message in the tomcat.log file on the Secure Agent machine: Facing java.lang.OutOfMemoryError: GC overhead limit exceeded

To solve this issue, you must increase the performance and avoid runtime environment memory issues.

1. In Administrator, select **Runtime Environments**.
2. Select the Secure Agent for which you want to increase memory from the list of available Secure Agents.
3. In the upper-right corner, click **Edit**.
4. In the **System Configuration Details** section, select the **Type** as **TomCatJRE**.

5. Edit **INFA_memory** as **-Xms32m -Xmx2048m -XX:MaxPermSize=2048m**.
The following image shows the **Agent Details** page:

The screenshot displays the 'Agent Details' page. At the top, there are tabs for 'Details' and 'Audit Log'. The 'Details' tab is active, showing a list of agent properties. The 'Agent Name' is 'INW1PC07L0KK'. Below this, a table lists 'Agent Service Details' with columns for 'Service Name', 'Status', 'Version', and 'Last Update Time'. The 'Data Integration Server' is listed as 'Up and Running' with version '26.0.2'. The 'System Configuration Details' section is expanded, showing a dropdown for 'Service' set to 'Data Integration Server' and 'Type' set to 'Tomcat JRE'. Below this is a table with columns 'Type', 'Name', and 'Value'. The 'INFA_MEMORY' configuration item is highlighted, showing the value '-Xms32m -Xmx2048m -XX:MaxPermSize=2048m'.

The minimum and maximum values for the Java heap size are given as an example. Specify the size according to your requirements.

Note: You must wait for the Data Integration Service to load new values after you configure the Secure Agent.

The mapping task is successful but data is not loaded to the Oracle Financials endpoint

When you monitor a job, the status of a task that writes data to an Oracle Financials Cloud target object indicates success or failure for data import into the interface tables. To know the status of data load into the corresponding Oracle Financials Cloud target object, verify the final ESS job status on the Oracle Financials Cloud application.

You can check the status of the final ESS job on the Oracle Financials Cloud application by navigating to **Home > Navigator > Scheduled Processes**.

This is a third-party limitation.

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