Informatica®

Informatica® Cloud Data Integration

Oracle Business Intelligence Publisher V1 Connector

Informatica Cloud Data Integration Oracle Business Intelligence Publisher V1 Connector
October 2022

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Preface

Use *Oracle Business Intelligence Publisher V1 Connector* to learn how to read data from Oracle Business Intelligence Publisher by using Cloud Data Integration. Learn to create an Oracle Business Intelligence Publisher V1 connection and develop and run mappings and mapping tasks in Cloud Data Integration.

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The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at https://www.informatica.com/services-and-training/support-services/contact-us.html.

CHAPTER 1

Introduction to Oracle Business Intelligence Publisher V1 Connector

You can use Oracle Business Intelligence Publisher V1 Connector to connect to Oracle Business Intelligence Publisher from Cloud Data Integration and read reports created for all Oracle Fusion applications.

Oracle Business Intelligence Publisher V1 Connector is a read-only connector and you can use the Oracle Business Intelligence Publisher V1 Connector either in a Source transformation, or midstream through a Web Service transformation in a mapping.

You can switch the mapping to advanced mode to include transformations and functions that enable advanced functionality.

Oracle Business Intelligence Publisher example

Oracle Business Intelligence Publisher is a reporting solution to prepare, build, and deliver reports in multiple formats by using a common interface for all Oracle Fusion applications.

For example, you are an Oracle HCM Cloud customer who has a pre-built report for workers with complex logic, which cannot be handled by using extracts. You can use Oracle Business Intelligence Publisher V1 Connector to connect to Oracle Business Intelligence Publisher and extract data from the report using Informatica Cloud Data Integration.

CHAPTER 2

Oracle Business Intelligence Publisher connections

Create an Oracle Business Intelligence Publisher V1 connection to connect to Oracle Business Intelligence Publisher and read data from Oracle Business Intelligence Publisher. You can use an Oracle Business Intelligence Publisher V1 connection to specify sources in mappings.

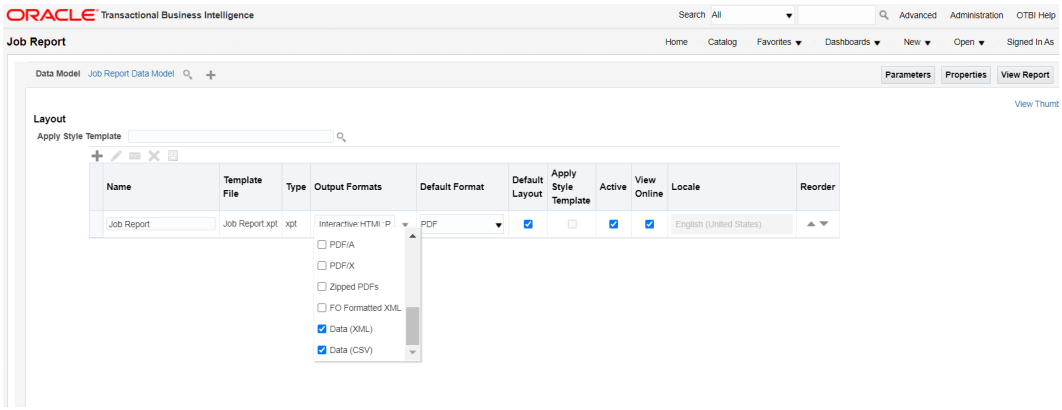
Connect to Oracle Business Intelligence Publisher

Let's configure the Oracle Business Intelligence Publisher connection properties to connect to Oracle Business Intelligence Publisher.

Before you begin

Before you use an Oracle Business Intelligence Publisher V1 connection to read data from Oracle Business Intelligence Publisher, configure the output format of the reports as **Data (XML)** and **Data (CSV)**. In the Oracle Business Intelligence Publisher application. Consider using Oracle Business Intelligence Publisher application for data extraction of smaller data volumes only.

The following image shows the page where you can set the value of the output format:



Connection details

The following table describes the basic connection properties:

Property	Description
Connection Name	Name of the connection. Each connection name must be unique within the organization. Connection names can contain alphanumeric characters, spaces, and the following special characters: _ . + -, Maximum length is 255 characters.
Description	Description of the connection. Maximum length is 4000 characters.
Type	Oracle Business Intelligence Publisher
Runtime Environment	Name of the runtime environment where you want to run tasks. Select Secure Agent, Hosted Agent, or serverless runtime environment.
BI Publisher URL	URL of the Oracle Business Intelligence Publisher application that you want to access. **Note:** To validate the BI Publisher URL, type the following URL in the web browser: `<BI Publisher URL>/xmlpserver/services/ExternalReportWSSService?wsdl` If the URL opens a WSDL file, the Business Intelligence Publisher URL is valid.
Authentication Type	Type of user authentication to connect to the Oracle Business Intelligence Publisher application. You can select **Basic Authentication** type.
Username	User name of the Oracle Business Intelligence Publisher account.
Password	Password for the Oracle Business Intelligence Publisher account.

Report Directory	The directory path where the reports are stored in the Oracle Business Intelligence Publisher application.
	You can read a report from the following folders:
	- Shared Folders
	- My Folders
	To read a report from Shared Folders, exclude `Shared Folders` from the directory path.
	For example, if the report is in Shared Folders/Samples/Sales, specify the report directory as follows:
	`/Samples/Sales`
	To read a report from My Folders, exclude `My Folders` from the directory path and include `~username` as the first node in the directory path.
	For example, if the report is in My Folders/Samples/Sales, and the username is weblogic, specify the report directory as follows:
	`/~weblogic/Samples/Sales`
	Default value of the report directory is `/Custom`.

Advanced settings

The following table describes the advanced connection properties:

Property	Description
Output Directory	The directory path on the Secure Agent machine where you want to download the CSV files from Oracle Business Intelligence Publisher. **Note:** This property applies only when you want to read data in the CSV data format.

Proxy server 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.

You can configure the Secure Agent to use the proxy server on Windows and Linux. You can use the unauthenticated or authenticated proxy server. The proxy settings applies to connections used in mappings and in mappings in advanced mode.

To configure the proxy settings for the Secure Agent, use one of the following methods:

- Configure the Secure Agent through the Secure Agent Manager on Windows or shell command on Linux.

  For instructions, see "Configure the proxy settings on Windows" or "Configure the proxy settings on Linux" in *Getting Started* in the Data Integration help .
- Configure the JVM options for the DTM in the Secure Agent properties. For instructions, see the Proxy server settings Knowledge Base article.

To configure proxy settings for the serverless runtime environment, see "Using a proxy server" in *Runtime Environments* in the Administrator help.

CHAPTER 3

Mappings and Mapping Tasks with Oracle Business Intelligence Publisher V1 Connector

Use the Data Integration Mapping Designer to create a mapping. In advanced mode, the Mapping Designer updates the mapping canvas to include transformations and functions that enable advanced functionality. Configure a Source transformation and select the Oracle Business Intelligence Publisher V1 connection to represent an Oracle Business Intelligence Publisher V1 source. Run the mapping to read data from an Oracle Business Intelligence Publisher V1 source.

Use the Mapping Task wizard to create a mapping task and select the mapping that you configured. The mapping task processes data based on the data flow logic you define in the mapping. Run the mapping task to read data from an Oracle Business Intelligence Publisher V1 source.

Oracle Business Intelligence Publisher V1 Source transformation in mappings

To read data from Oracle Business Intelligence Publisher, configure an Oracle Business Intelligence Publisher V1 Source transformation in a mapping.

Specify the name and description of the Oracle Business Intelligence Publisher V1 source. Configure the request options and advanced properties for the source object.

The following table describes the source properties that you can configure for an Oracle Business Intelligence Publisher V1 source:

Property	Description
Connection	Name of the Oracle Business Intelligence Publisher V1 source connection.
Operation	Read operation for the source object.

The following table describes the request options that you can configure in a Source transformation:

Property	Description
Request Message	Request message value for a read operation. You can configure the following types of request messages: **Parameterized** You can dynamically provide the request message value by using parameters. **Not Parameterized** You can provide static values for the request message.

The following table describes the advanced properties that you can configure for an Oracle Business Intelligence Publisher V1 source:

Property	Description
DataFormat	Data format of the output. You can select either the XML or CSV data format. Ensure that you select the same format that you selected in the report output format in Oracle Business Intelligence Publisher application. Default is XML. **Note:** If you select the CSV data format for the output, you must specify the directory path value in the **Output Directory** connection property.
Tracing Level	Tracing level to determine the amount of details that the logs contain. You can configure the following types of tracing levels: **Terse** The Secure Agent logs initialization information, error messages, and notification of rejected data. **Normal** The Secure Agent logs initialization and status information, errors encountered, and skipped rows due to transformation row errors. Summarizes session results, but not at the level of individual rows. **Verbose Initialization** In addition to normal tracing, the Secure Agent logs additional initialization details, names of index and data files used, and detailed transformation statistics. **Verbose Data** In addition to verbose initialization tracing, the Secure Agent logs each row that passes into the mapping. Also notes where the Secure Agent truncates string data to fit the precision of a column and provides detailed transformation statistics.
Cache Size for Web Service Response (KB)	Not Applicable. **Note:** Do not change the value of this property unless Informatica Global Customer Support instructs you to do so.

Using Oracle Business Intelligence Publisher V1 Connector in a Source transformation

You can use Oracle Business Intelligence Publisher V1 Connector in a Source transformation .

Use an Oracle Business Intelligence Publisher V1 source in a mapping to read data from Oracle Business Intelligence Publisher.

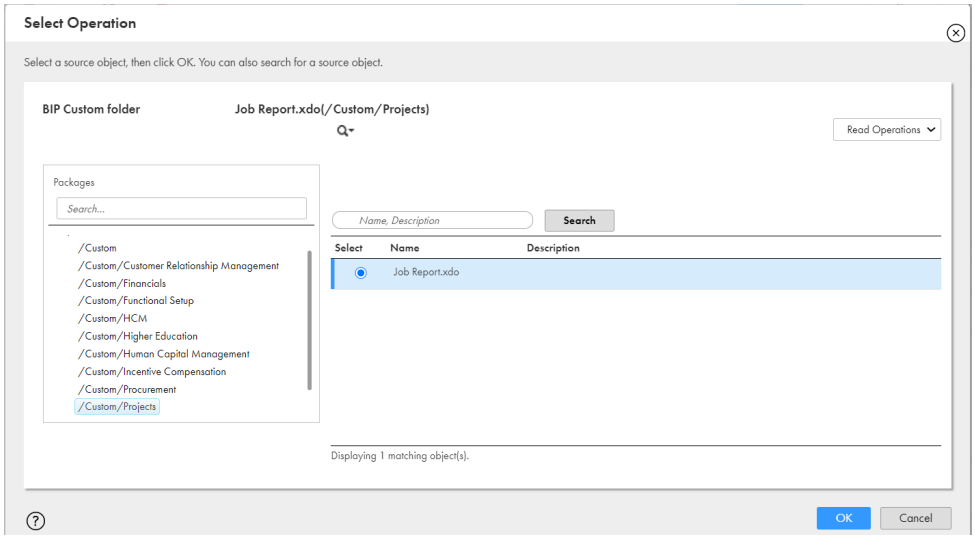
1. In Data Integration, click **New** > **Mappings** > **Create**.

   The mapping designer appears.
2. Enter a name and description for the mapping.
3. On the Source transformation, specify a name and description in the general properties.

   The following image shows a simple Oracle Business Intelligence Publisher V1 reader mapping:

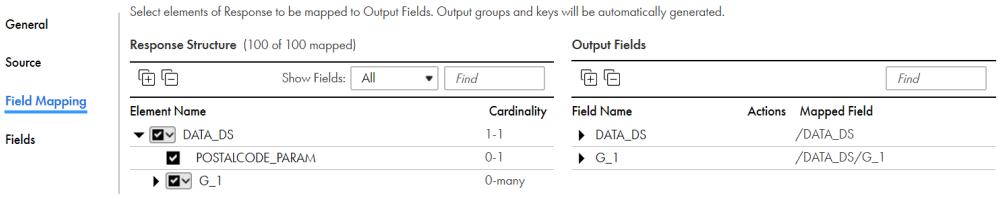


4. On the **Source** tab, perform the following steps to configure the source properties:
   1. In the **Connection** field, select the Oracle Business Intelligence Publisher V1 connection to connect to the Oracle Business Intelligence Publisher application.
   2. In the **Operation** field, select the required object in the **Package Explorer** section and select the required operation.
      The following image shows a list of read operations:



   3. In the **Request Options** section, click **Configure** to configure the request message. For more information about configuring the request message, see "Configuring a request message" on page 13.
   4. In the **Advanced Properties** section, set the tracing level.
5. On the **Field Mapping** tab, select the elements in the response structure that you want to map to the output fields.

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:



6. On the Target transformation, specify the target connection, target type, object, and operation for the target transformation.
7. Map the source and target.
8. Click **Save** and then click **Run** to run the mapping.

Configuring a request message

You can configure the request message for the Oracle Business Intelligence Publisher application when you create a mapping.

On the Source transformation, click **Configure** in the **Request Options** section to configure the request message.

The following example shows the request message format when the selected report has parameters:

```
<!--1 or more repetitions:-->
<REQUEST_MESSAGE_INPUT>
<!--Optional:-->
<ACTIVE_STATUS>
<!--string-->
</ACTIVE_STATUS>
</REQUEST_MESSAGE_INPUT>
```

The following example shows the request message format when the selected report does not have parameters:

```
<!--1 or more repetitions:-->
<REQUEST_MESSAGE_INPUT/>
```

Note: You must add the above snippet in a request message when parameters are not present in the selected report.

Oracle Business Intelligence Publisher V1 midstream transformation in mappings

Before you configure a midstream transformation, you must create a business service. Select an Oracle Business Intelligence Publisher V1 connection and select an Oracle Business Intelligence Publisher 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 the Oracle Business Intelligence Publisher application.

Request Mapping

Maps the incoming fields from a source file to elements in the 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.

Web Service properties

The following table describes the Web Service properties that you can configure for a transformation:

Property	Description
Connection	Name of the Oracle Business Intelligence Publisher V1 source connection.
Operation	Read operation for the source object.

The following table describes the advanced property that you can configure for a Web Service transformation using Oracle Business Intelligence Publisher V1 Connector:

Property	Description
DataFormat	The data format of the output. You can select either the XML or CSV data format. Ensure that you select the same format that you selected in the report output format in Oracle Business Intelligence Publisher application. Default is XML. **Note:** If you select the CSV data format for the output, you must specify the directory path value in the **Output Directory** connection property.

Midstream transformation advanced properties

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

Property	Description
Cache Size for Web Service Request (KB)	Memory available for the web service request. If the request is more than 100 KB, you can increase the cache size. Default is 100 KB.
Cache Size for Web Service Response (KB)	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. Default is 100 KB.
Allow Input Flush	Use this option to create XML after all the data is received.
Transaction Commit Control	Commit or rollback transactions.
Transformation Scope	Specifies the transformation logic applied to data.

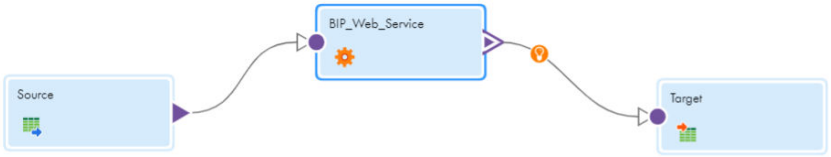
Using Oracle Business Intelligence Publisher V1 Connector in a midstream transformation

To read data from an Oracle Business Intelligence Publisher V1 source, perform the following tasks:

1. Create an Oracle Business Intelligence Publisher V1 connection to read data from an Oracle Business Intelligence Publisher V1 source.
2. In Data Integration, click **New** > **Components** > **Business Sevices** > **Create**.

   The mapping designer appears.
3. Add a 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 Business Intelligence Publisher V1 mapping:



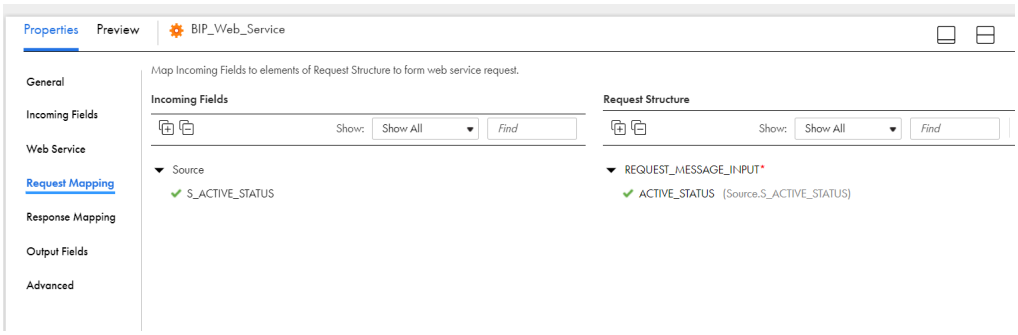
4. On the **Web Service** tab, select the business service and the operation that you configured.

   The following image shows the configured web service:



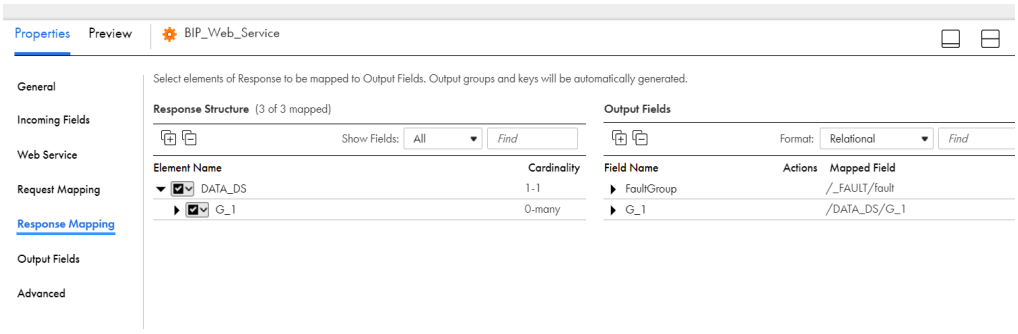
5. On the **Request Mapping** tab, map the incoming fields from the source to the elements of Request Structure to form a web service request:

   The following image shows the fields that you map:



6. 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 response structure and the output fields:



7. On the **Advanced** tab, 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.

8. When you save and run the mapping, the Secure Agent reads the data that you map on the **Request Mapping** tab from Oracle Business Intelligence Publisher application and writes the data to the corresponding target.

CHAPTER 4

Troubleshooting

Use the following sections to troubleshoot errors in Oracle Business Intelligence Publisher V1 Connector.

Troubleshooting for Oracle Business Intelligence Publisher V1 Connector

Folder name in folder path contains * or \ characters

If a folder name in the folder path specified in the Oracle Business Intelligence Publisher application contains * or \ characters, the test connection fails with an error that the folder does not exist, even though the folder exists in the Oracle Business Intelligence Publisher application system.

This is a third-party limitation.

Data mismatch for different file formats

When you read a report using both `XML` and `CSV` data formats and compare the reports, you might encounter a data mismatch.

For example, you might retrieve the values for `Datetime` field in `CSV` format but might not be able to retrieve the values in `XML` format for the same report.

This is a third-party limitation.

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