Informatica

Informatica® Cloud Data Integration

OData Consumer Connector

Informatica Cloud Data Integration OData Consumer Connector
April 2024

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Preface

Use *OData Consumer Connector* to learn how to read from or write to OData Consumer service through restful API calls. Learn to create a connection, develop mappings, and run synchronization and mapping tasks in Cloud Data Integration.

Informatica Resources

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Informatica Intelligent Cloud Services web site

You can access the Informatica Intelligent Cloud Services web site at http://www.informatica.com/cloud. This site contains information about Informatica Cloud integration services.

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CHAPTER 1

Introduction to OData Consumer Connector

Open Data Protocol (OData) is an OASIS standard that defines best practices to build and consume RESTful APIs.

You can focus on business logic and build RESTful APIs with OData instead of defining request headers, response headers, status codes, HTTP methods, URL conventions, media types, payload formats, and query options. OData guides you to track changes and define functions, take actions for reusable procedures, and send asynchronous or batch requests. Use OData for extension and to fulfill any custom needs of your RESTful APIs. OData builds on core protocols, such as HTTP and commonly recognized methodologies like REST.

OData Consumer Connector integrates Data Integration with systems that are OData compliant. The connector uses the OData V4 protocol to communicate with these systems. Use the connector to connect to endpoints that support OData protocol version 4.

Use the OData Consumer Connector to connect to an OData Consumer service through restful API calls. Rest calls can be in ATOM/XML or JSON format. Choose the format that the OData Consumer service supports. Create an OData Consumer connection to specify objects that are exposed in an OData Consumer service that you want to include in a task.

Use OData Consumer Connector to securely read data from and write data to OData Consumer. You can use custom headers when you configure the write operation. You can use the OData Consumer connection in synchronization tasks, mappings, and mapping tasks.

Rules and Guidelines for Using OData Consumer Connector

The following rules and guidelines apply when you use OData Consumer Connector:

- The OData Consumer Connector supports the OData V4 protocol for simple entity types, but does not support complex types, open types, derivatives, relationship properties, navigation properties, singleton, and collections.
- The OData Consumer connection supports only basic authorization.
- When you configure a transformation in a task, you cannot use OData logical operators in transformations.

- When you apply filters to read OData Consumer data that contains the DateTimeOffset field, you must use the following format:

  - For normal filters, specify the `DateTimeOffset equals 1970-01-01 08:12:27` format.

  - For advanced filters, specify the `DateTimeOffset eq 1970-01-01T08:12:27.000Z` format.
- When you apply advanced filters to read OData Consumer data and specify a column name, the table name gets prepended to the column name and the filter does not get applied. Remove the table name and then specify the filter condition.
- You can read, write, or preview OData Consumer data using the Timeofday field. If the OData server does not return the date, the date shows up as 1970-01-01.
- You cannot use an OData Consumer connection to specify lookups in synchronization tasks, mappings, and mapping tasks.
- If you want to specify only the truststore file name and password to connect to the OData Consumer application using SSL, do not keep the keystore file name and passwords fields blank. Specify the truststore file name and password in the keystore file name and password fields.

CHAPTER 2

OData consumer connection

Use OData Consumer connections to read data from and write data to an OData Consumer service.

Create a connection and associate it with a synchronization task, mapping, or mapping task. Define the source properties to read data from and write data to an OData Consumer object. You can also configure data filters based on your requirements.

Use the connection in the Mapping Designer when you create a mapping or in the synchronization Task wizard when you create a task.

Connect to OData Consumer

Let's configure the OData Consumer connection properties to connect to OData Consumer.

Before you begin

Before you configure the connection properties, keep the user name, password, and the URL for the OData Consumer service handy.

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	OData Consumer
Runtime Environment	Name of the runtime environment where you want to run tasks. Select Secure Agent, Hosted Agent, or serverless runtime environment.
User Name	User name to connect to the OData Consumer service.

Property	Description
Password	Password associated with the user name.
URL	URL for the OData Consumer service data source offered through the OData V4 protocol. The URL must not contain $metadata or the object name. For example, http://services.odata.org/V4/Northwind/Northwind.svc/ **Note:** For information about the URL conventions, see http://docs.oasis-open.org/odata/odata/v4.0/odata-v4.0-part2-url-conventions.html

Advanced settings

The following table describes the advanced connection properties:

Property	Description
Data Serialization Format	The format of data you want to transfer. Select **JSON**. **ATOM/XML** is not applicable.
Security Type	Security protocol that you can use to establish a secure connection with the OData Consumer server. You can choose from the following options: - SSL. Two-way SSL is not applicable. - None Default is None. TLS is not applicable. For more information on how to use one-way SSL, see "Setting up one-way SSL" on page 10.
TrustStore File Name	Required if you select the SSL security type. Name of the truststore file that contains the public certificate for the OData Consumer server. The truststore file must be in the JKS format.
TrustStore Password	Password for the truststore file that contains the public certificate for the OData Consumer server.
KeyStore File Name	Required if you select a security type. Name of the keystore file that contains the private key for the OData Consumer server. The keystore file must be in the JKS format.
KeyStore Password	The password for the keystore file required for secure communication.

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.

Setting up one-way SSL

You can use OData Consumer Connector to connect to an SSL-enabled OData Consumer service after you create a truststore certificate and keystore certificate. You can use one-way SSL to establish a secure connection with OData Consumer.

Perform the following steps to use one-way SSL:

- Import the server certificates to the `<Secure Agent installation directory>\jre\lib\security\cacerts` file.
- To set the *INFA_TRUSTSTORE* environmental variable to the directory path that contains the certificates:
  - Add the following environmental variable in system variables in the Secure Agent machine: *INFA_TRUSTSTORE*
  - Set the value of the *INFA_TRUSTSTORE* variable to the directory that contains the truststore and keystore certificates.

After you make these updates, restart the Secure Agent.

CHAPTER 3

Synchronization Tasks with OData Consumer Connector

This chapter includes the following topics:

- OData Consumer Sources in Synchronization Tasks, 11
- OData Consumer Targets in Synchronization Tasks, 13

OData Consumer Sources in Synchronization Tasks

When you configure a synchronization task to read from an OData Consumer service, you can configure the source properties.

The source properties appear on the Source page of the Synchronization Task wizard when you specify an OData Consumer connection.

The following table describes the OData Consumer source properties:

Source Property	Description
Connection	Name of the OData Consumer source connection.
Source Type	Source Type. Select **Single** for a single OData Consumer source object.
Source Object	OData Consumer Source object for the task.

The following table describes the advanced OData Consumer source properties:

Advanced Source Property	Description
Data Serialization Format	The format of data that is transferred over the network. Specify the property to override the Data Serialization Format value you specified in the OData Consumer connection. Select one of the following options: - Connection Default - ATOM/XML - JSON When you specify **Connection Default**, the Secure Agent uses the Data Serialization Format value you specified in the OData Consumer connection. Default is **Connection Default**.
Maximum Number of Rows	Determines the maximum number of records you can read from the source. For example, when you specify a value of 100, the agent reads 100 records from the source. Default is 0, which specifies that the agent reads all records from the source.
Number of Rows to Skip	Sets the number of rows you can skip. For example, you can set this property to n to skip the first n rows in a source and read from the (n+1) row. Default is 0.
Page Size	Determines the number of rows to read from each page from the source. Default is 100 rows.
Tracing Level	Sets the amount of detail that appears in the log file. You can choose **terse**, **normal**, **verbose initialization**, or **verbose data**. Default is **normal**.

Synchronization Example

You want to read a table from NorthWind OData V4 services that stores payroll information of employees.

Configure a synchronization task to read from OData Consumer.

You perform the following synchronization tasks:

Define the synchronization task.

Configure a synchronization task to use the insert operation to read from a NorthWind OData V4 services and write to a flat file.

Use an OData V4 source object.

The source for the mapping is an OData V4 source object *Employee* that contains payroll details of employees. The Employee OData V4 source is a single source in the synchronization task. You can include fields, for example, employee ID, first name, last name, and title.

Create a flat file target object.

Select fields, for example, employee ID, first name, last name, and title fields from the source object that you want to insert into the target object. Provide a name *Employees.csv* for the target object and specify the connection type as flat file. The synchronization task writes the data to the flat file.

Configure a field mapping.

Map all the fields under *Employee* source data to all the fields in the target *Employees.csv*. The synchronization task writes the mapped source data to the flat file.

Configure the advanced source properties.

In the advanced source properties, you choose properties that are specific to OData Consumer. Specify the default value for the data serialization format and specify 100 as the page size. Save and run the task. Open the flat file to visualize the exported data.

OData Consumer Targets in Synchronization Tasks

When you configure a Synchronization task to write to an OData Consumer service, you can configure the target properties.

The target properties appear on the Target page of the Synchronization Task wizard when you specify an OData Consumer connection.

The following table describes the OData Consumer target properties:

Target Property	Description
Connection	Name of the OData Consumer target connection.
Target Object	OData Consumer target object for the task.
Operation	Select **Insert** for insert operation. **Update**, **Delete**, and **Upsert** are not applicable.

The following table describes the advanced target properties:

Advanced Property	Description
Data Serialization Format	The format of data that is transferred over the network. You can override the Data Serialization Format value you specified in the OData Consumer connection. Select one of the following options: - Connection Default - JSON When you specify Connection Default, the Secure Agent uses the Data Serialization Format value you specified in the OData Consumer connection. **ATOM/XML** is not applicable. Default is **Connection Default**.
Update Mode	Not applicable.
Use Custom Headers	Uses custom headers during write operation. Map the custom header port when you want to use custom headers. By default, the **Use Custom Headers** check box is not selected.

Advanced Property	Description
Success File Directory	Directory for the success file. Specify a directory path that is available on each Secure Agent machine in the runtime environment. By default, Informatica Cloud writes the success file to the following directory: `<Secure Agent installation directory>/apps/Data_Integration_Server/data/success`
Error File Directory	Directory for the error file. Specify a directory path that is available on each Secure Agent machine in the runtime environment. By default, Informatica Cloud writes the error file to the following directory: `<Secure Agent installation directory>/apps/Data_Integration_Server/data/error`

CHAPTER 4

Mappings and Mapping Tasks with OData Consumer Connector

This chapter includes the following topics:

- OData Consumer Sources in Mappings, 15
- OData Consumer Targets in Mappings, 16

OData Consumer Sources in Mappings

To read data from an OData Consumer service, configure an OData Consumer resource object as the Source transformation in a mapping.

Specify the name and description of the OData Consumer source. Configure the source and advanced properties for the source object.

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

Property	Description
Connection	Name of the source connection.
Source Type	Source type. Select **Single** for a single source object.
Object	Source object for the mapping.

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

Advanced Source Property	Description
Data Serialization Format	The format of data that is transferred over the network. Specify the property to override the Data Serialization Format value you specified in the OData Consumer connection. Select one of the following options: - Connection Default - ATOM/XML - JSON When you select **Connection Default**, the Secure Agent uses the Data Serialization Format value you specified in the OData Consumer connection. Default is **Connection Default**.
Maximum Number of Rows	Determines the maximum number of records you can read from the source. For example, when you specify a value of 100, the agent reads 100 records from the source. Default is 0, which specifies that the agent reads all records from the source.
Number of Rows to Skip	Sets the number of rows you can skip. For example, you can set this property to n to skip the first n rows in a source and read from the (n+1) row. Default is 0.
Page Size	Determines the number of rows to read from each page from the source. Default is 100 rows.
Tracing Level	Sets the amount of detail that appears in the log file. You can choose **terse**, **normal**, **verbose initialization**, or **verbose data**. Default is **normal**.

OData Consumer Targets in Mappings

To write data to an OData Consumer service, configure an OData Consumer resource object as the Target transformation in a mapping.

Specify the name and description of the OData Consumer target. Configure the target and advanced properties for the target object.

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

Property	Description
Connection	Name of the target connection.
Source Type	Target type. Select **Single Object** for a single target object.

Property	Description
Object	Target object for the mapping.
Operation	Select **Insert** for insert operation. **Update**, **Delete**, and **Upsert** are not applicable.

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

Advanced Source Property	Description
Data Serialization Format	The format of data that is transferred over the network. Specify the property to override the Data Serialization Format value you specified in the OData Consumer connection. Select one of the following options: - Connection Default - JSON When you specify Connection/Default, the Secure Agent uses the Data Serialization Format value you specified in the OData Consumer connection. **ATOM/XML** is not applicable. Default is **Connection Default**.
Update Mode	Not applicable.
Use Custom Headers	Select the check box to use custom headers during write operation. Map the custom header port when you want to use custom headers. By default, the **Use Custom Headers** check box is not selected.
Success File Directory	Directory for the success log files. Specify a directory path that is available on each agent machine in the runtime environment. By default, the agent writes the success log files to the following directory: `<Secure Agent installation directory>\apps\Data_Integration_Server\data\success`
Error File Directory	Directory for the error log files. Specify a directory path that is available on each agent machine in the runtime environment. By default, the agent writes the error log files to the following directory: `<Secure Agent installation directory>\apps\Data_Integration_Server\data\error`
Forward Rejected Rows	Determines whether the transformation passes rejected rows to the next transformation or drops rejected rows. By default, the agent forwards rejected rows to the next transformation.

Mapping with Custom Headers Example

You can use custom headers during write operation. Map the custom header port when you want to use custom headers.

Use the following format to specify a custom header field:

```
name1 "=" value1 ";" name2 "=" value2
```

Perform the following steps to map flat files that use custom headers:

1. Create a flat file that contains custom headers. For example, create a flat file named A with custom headers.

   The following image shows a flat file with custom header defined:

```
nos|customheader
1|AirlineCode "=" OdataC ";" Name "=" Custom Header 1
2|AirlineCode "=" OdataC ";" Name "=" Custom Header 2
```

2. Create a flat file that contains data to be written to OData Consumer. For example, create a flat file named B, that contains data to be written to OData Consumer.

   The following image shows a flat file that contains data to be written to OData Consumer:

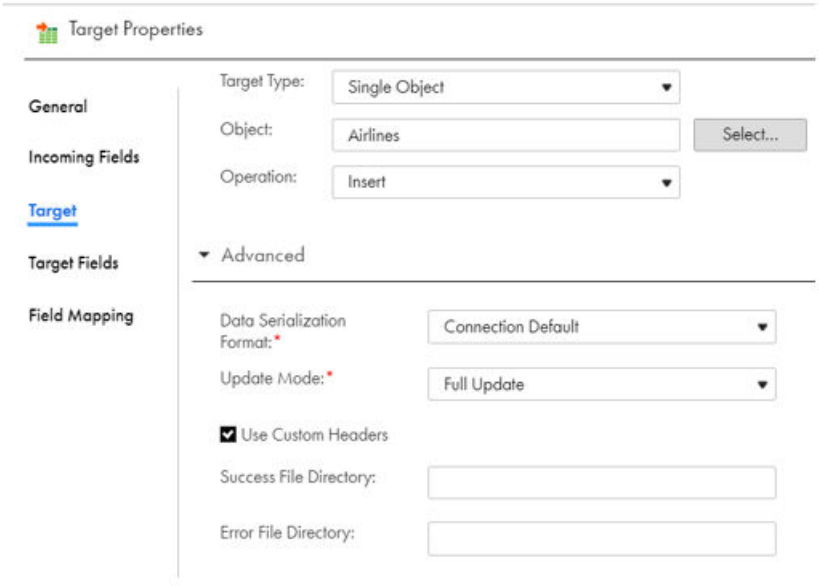
```
"no","AirlineCode","Name"
"1","INDIA","KingfisherAir"
"2","USA","JetAirways"
```

3. Place the flat file A and flat file B in a folder.
4. In **Informatica Intelligent Cloud Services**, go to **Data Integration** tab and click **New**.
5. Under **Mappings**, click **Create**.
6. Select the flat file A from the flat file connection.
7. Under **Formatting Options** tab, specify pipe `|` as the delimiter.
8. Select the flat file B from the flat file connection.
9. Under **Formatting Options** tab, specify comma `,` as the delimiter.
10. Select **Joiner** from the **Design** tab.
11. Join the flat file A and the flat file B using a join condition. For example, the join condition is `nos=no`. The flat files used to define a join condition are known as `Master` and `Detail`. For example, flat file A is `Master`, and flat file B is `Detail`.

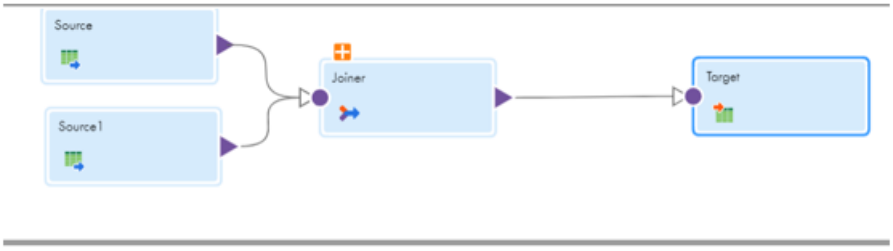
    The following image shows the **Master** and **Detail** joined by the `=` operator:



12. Select an OData Consumer connection and select the target object to which you want to write the custom headers. For example, `airlines` is the target object.
13. In the **Advanced** section in target properties, select **Use Custom Headers** check box.



14. Select **Field Mapping** and map the joiner output fields to the target object fields.



15. Save and run the mapping.

CHAPTER 5

OData Consumer Data Type Reference

This chapter includes the following topics:

- OData Consumer Data Type Reference Overview, 20
- OData Consumer and Transformation Data Types, 21

OData Consumer Data Type Reference Overview

Data Integration uses the following data types in mappings, synchronization tasks, and mapping tasks with OData Consumer:

OData Consumer native data types

OData Consumer data types appear in the Fields tab for Source and Target transformations when you choose to edit metadata for the fields.

Transformation data types

Set of data types that appear in the remaining transformations. They are internal data types based on ANSI SQL-92 generic data types, which Data Integration uses to move data across platforms. Transformation data types appear in all remaining transformations in a mapping, synchronization task, or mapping task.

When the agent reads source data, it converts the native data types to the comparable transformation data types before transforming the data. When the agent writes to a target, it converts the transformation data types to the comparable native data types.

OData Consumer and Transformation Data Types

The following table lists the OData Consumer data types that Data Integration supports and the corresponding transformation data types:

NetSuite Native Data Type	Transformation Data Type	Description
Bigint	BigInt	Precision 19, scale 0
Bigserial	BigInt	Precision 19, scale 0
Boolean	String	Precision 6
Bytes	Binary	Precision 104857600
Char	String	Precision 1
Char(n)	String(n)	n<=10485760
Date	Date/Time	Precision 29, scale 9
Double	Double	Precision 15, scale 0
Integer	Integer	Precision 10, scale 0
Serial	Integer	Precision 10, scale 0
Smallserial	Integer	Precision 10, scale 0
String	String	Precision 104857600
Text	String	Precision 104857600
Time	Date/Time	Precision 29, scale 9
Timestamp	Date/Time	Precision 29, scale 9
Timestampwithtz	Date/Time	Precision 29, scale 9
Timewithtz	Date/Time	Precision 29, scale 9
Varchar	String	Precision 104857600
Varchar(n)	String(n)	n <=10485760

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