



Informatica® Data Integration - Free & PayGo

OData Connector

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Publication Date: 2023-04-04

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Preface

Use *OData Connector* to learn how to read from an OData service by using Data Integration. Learn to create an OData connection, develop mappings, and run mapping tasks in Data Integration.

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CHAPTER 1

Introduction to OData 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 the query options. OData guides you to track changes and define functions, or 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 Connector integrates Data Integration with systems, such as SharePoint, databases, SAP OData services, and Team Foundation Services. These systems are OData compliant, on-premise compliant or cloud applications compliant. OData Connector communicates with these systems in the OData protocol. OData Connector uses restful API calls to connect to an OData service. Rest calls can be in XML or JSON format. Choose the format that the OData service supports. Use OData Connector to connect to endpoints that support OData protocol version 2.

Create an OData connection to specify objects that are exposed in an OData service that you want to include in a task. You can use the OData connection in mappings and mapping tasks.

Create a mapping task to process data based on the data flow logic defined in a mapping or integration template.

OData Connector assets

Create assets in Data Integration to integrate data using OData Connector.

When you use OData Connector, you can include the following Data Integration assets:

- Mapping
- Mapping task

For more information about configuring assets and transformations, see *Mappings, Transformations, and Tasks* in the Data Integration documentation.

CHAPTER 2

Connections for OData

Create an OData connection to read data from an OData service.

You can create an OData connection on the Connections page. Use the connection to specify sources in mappings and mapping tasks.

Note: The OData Connector does not support roll back transaction for any of its tasks.

OData connection properties

When you set up an OData connection, configure the connection properties.

The following table describes the OData 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	The OData connection type.
Runtime Environment	Name of the runtime environment where you want to run the tasks. Specify a Secure Agent or a Hosted Agent.
User Name	User name to connect to the OData service.
Password	Password associated with the user name.
Service Root URI	Root URI for the data source offered through the OData protocol. Note: The service root URI must follow the OData URI Conventions .

Property	Description
OData Parameter File Path	Absolute path to a file that you append to the URL. The file contains key value pairs separated by a new line. You can use this file to check additional parameter values required in the URL. Note: Ensure that you use percent encoding to encode the key value pairs in the file.
Data Serialization Format	The format of data you want to transfer. Choose from ATOM/XML or JSON. Default is ATOM/XML.

CHAPTER 3

Rules and guidelines for OData connections

If the connection is lost for reasons such as network outage, the OData client tries to make multiple attempts to establish a connection but the job remains unresponsive. This limitation is with the OData4j third-party library.

CHAPTER 4

Mappings and mapping tasks with OData Connector

Use the Data Integration Mapping Designer to create a mapping. When you create a mapping, you configure a source to represent an OData object.

Use the Mapping Task wizard to create a mapping task. The mapping task processes data based on the data flow logic you define in the mapping.

OData sources in mappings

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

Property	Description
Connection Name	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
Maximum Page Size	Set the number of records to be fetched per page when you read data. You can set the page size when you want to read a large amount of data from a source. Default is 50. Note: The value must be less than the default page size of the server. Else, the server might return duplicate rows in the target file when you run the mapping.
Tracing Level	Set the amount of detail that appears in the log file. You can choose terse, normal, verbose initialization, or verbose data. Default is normal.

Rules and guidelines for OData mappings

You cannot configure an OData mapping to roll back transactions.

Troubleshooting

When you configure the **Maximum Page Size** property to read data from a source, you might get an out of memory issue.

The issue occurs because client side pagination is enabled by default. Enable server side pagination to increase the memory.

Perform the following steps to enable server side pagination and increase the memory for the Java heap size:

1. In **Administrator**, select **Runtime Environments**.
2. Select the Secure Agent 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 **DTM** for the Data Integration Server.
5. Set the value of JVMOption to **-DServerSidePagination=true**.
6. Restart the Secure Agent.

CHAPTER 5

Data type reference

OData native data types

OData data types appear in the Fields tab for Source transformation 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 Data Integration tasks.

When the Data Integration application reads source data, it converts the native data types to the comparable transformation data types before transforming the data.

OData and transformation data types

The following table compares the OData native data type to the transformation data type:

OData Data Type	Transformation Data Type
Boolean	Integer
Date	Date and time values. Use the following formats for date and time: - yyyy-MM-ddTHH:mm:ss For example, 2015-04-30T07:08:06 - yyyy-MM-ddTHH:mm:ss:SSSZ For example, 2015-04-30T07:08:06.879 or 2015-04-30T07:08:06.8798888
Decimal	String/Decimal
Int16	Integer
Int32	Integer
String	String

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