Informatica®

Informatica® Cloud Data Integration

Google Sheets V2 Connector

Informatica Cloud Data Integration Google Sheets V2 Connector
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CHAPTER 1

Introduction to Google Sheets V2 Connector

You can use Google Sheets V2 Connector to connect to Google Sheets from Data Integration. Use Google Sheets V2 Connector to read data from and write data to Google Sheets.

You can use a Google Sheets object as a source and target in mappings and mapping tasks.

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

When you run a task or mapping, the Secure Agent uses the JAVA client libraries of the Google Sheets APIs to integrate with Google Sheets.

Note: This connector is developed by Informatica partners, third-party system integrators, or customers. You can look up the Product Availability Matrix or Informatica Marketplace for more information.

Google Sheets V2 Connector assets

Create assets in Data Integration to integrate data using Google Sheets Connector.

You can perform insert, update, and delete operations on a Google Sheets target. You cannot perform upsert operations on a Google Sheets target.

When you use Google Sheets V2 Connector, you can include the following Data Integration assets:

- Mapping
- Mapping task

The standard objects are the Sheet Names that are present in the Google Sheets spreadsheet. The Sheet Names are dynamic and fetched automatically during data preview.

The following table lists the objects and task operations that Google Sheets V2 Connector supports for list of all the spreadsheets object:

Read	Insert	Update	Upsert	Delete
Yes	Yes	Yes	NA	Yes

For more information about configuring assets and transformations, see Mappings, Transformations, and Tasks.

Administration of Google Sheets V2 Connector

Before you use Google Sheets V2 Connector, you must complete the following prerequisite tasks:

1. Ensure you have a Google service account to access Google Sheets.
2. Ensure you have the OAuth 2.0 client ID, client secret, and refresh token values for the project. You require these details when you create a Google Sheets V2 connection in Data Integration.
   For more information about generating the OAuth 2.0 client ID, client secret, and refresh token, see the Google Sheets documentation.
3. Ensure that you have enabled the **Google Sheets API** and **Google Drive API** for your project. Google Sheets V2 Connector uses the Google APIs to integrate with Google Sheets.

CHAPTER 2

Google Sheets V2 connections

Create an Google Sheets V2 connection to access Google Sheets data from Data Integration. You can create a connection on the Connections page or when you create a task. After you create a connection, it becomes available to all users who have access to the organization.

You can use Google Sheets V2 connections in mappings and mapping tasks.

Google Sheets V2 connection properties

When you create a Google Sheets V2 connection, configure the connection properties.

The following table describes the Google Sheets V2 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	Google Sheets V2
Runtime Environment	Name of the runtime environment where you want to run tasks.
Client ID	Required. The client ID from Google Developer Console.
Client Secret	Required. The client secret from Google Developer Console.
Refresh Token	Required. The refresh token received after you exchange authorization code for Google Sheets.
Spreadsheet ID	ID of the spreadsheet in Google Sheets.
Header Present	Indicates that the sheet contains a header. If you select this option and the sheet does not contain a header, the first row is treated as the header.

CHAPTER 3

Mappings and mapping tasks with Google Sheets V2 Connector

Use the Data Integration Mapping Designer to create a mapping. When you create a mapping, you configure a source or target to represent an Google Sheets V2 Connector object.

In advanced mode, the Mapping Designer updates the mapping canvas to include transformations and functions that enable advanced functionality.

Google Sheets V2 sources in mappings

To read data from Google Sheets, configure a Google Sheets object as the Source transformation in a mapping or mapping task.

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

Specify the name and description of the Google Sheets source. Configure the source, query options, and advanced properties for the source object.

The following table describes the source properties that you can configure for a Google Sheets source:

Property	Description
Connection	Name of the Google Sheets V2 source connection.
Source Type	Type of the Google Sheets source objects available. You can read data from a single Google Sheets source object or parameterize the object.
Object	Name of the Google Sheets source object based on the source type you select.
Filter	Configure a simple filter or an advanced filter to remove rows at the source. You can improve efficiency by filtering early in the data flow. A simple filter includes a field name, operator, and value. Use an advanced filter to define a more complex filter condition, which can include multiple conditions using the AND or OR logical operators.

The following table describes the advanced properties that you can configure for a Google Sheets V2 source:

Property	Description
Initial Column Range	Specifies the first column name from a data range in a Google Sheets spreadsheet from where you want to start reading the data. For example, specify the InitialColumnRange value as Sheet1!C5.
Final Column Range	Specifies the last column name from a data range in a Google Sheets spreadsheet from where you want to stop reading the data. For example, specify the InitialColumnRange value as Sheet1!G25.

You can set the tracing level in the advanced properties session to determine the amount of details that logs contain.

The following table describes the tracing levels that you can configure:

Property	Description
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. When you configure the tracing level to verbose data, the Secure Agent writes row data for all rows in a block when it processes a transformation.

Google Sheets V2 targets in mappings

To write data to a Google Sheets target, configure a Google Sheets object as the Target transformation in a mapping or mapping task.

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

Specify the name and description of Google Sheets target. Configure the target and advanced properties for the target object.

The following table describes the target properties that you can configure for a Google Sheets target:

Property	Description
Connection	Name of the Google Sheets V2 target connection.
Target Type	Type of the Google Sheets target objects available. You can write data to a single Google Sheets target object. You cannot write data to multiple objects or parameterize the object.
Object	Name of the Google Sheets target object based on the target type selected.
Operation	You can select one the following operations: - Insert - Update - Delete

The following table describes the advanced properties that you can configure for a Google Sheets target:

Property	Description
Initial Column Range	Specifies the first column name from a data range in a Google Sheets spreadsheet from where you want to start writing the data.
Final Column Range	Specifies the last column name from a data range in a Google Sheets spreadsheet from where you want to stop writing the data.
Success File Directory	Not applicable.
Error File Directory	Not applicable.
Forward Rejected Rows	Not applicable.

CHAPTER 4

Data type reference

Data Integration uses the following data types in mappings and mapping tasks with Google Sheets:

Google Sheets native data types

Google Sheets 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 transformations. They are internal data types based on ANSI SQL-92 generic data types, which the Secure Agent uses to move data across platforms. Transformation data types appear in all transformations in a mapping.

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

Google Sheets V2 and transformation data types

The following table describes the data types that Data Integration supports for Google Sheets V2 sources and targets:

Google Sheets Data Type	Transformation Data Type	Range and Description for the Transformation Data Type
String	String	1 to 104,857,600 characters

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