

Google Drive Connector Template

Table of Contents

GOOGLE DRIVE CONNECTOR TEMPLATE	1
TABLE OF CONTENTS.....	1
INTRODUCTION TO GOOGLE DRIVE CONNECTOR	2
GOOGLE DRIVE CONNECTOR OVERVIEW (REQUIRED)	2
GOOGLE DRIVE CONNECTOR TASK AND OBJECT TYPES (REQUIRED)	2
GOOGLE DRIVE OBJECTS (BASED ON CONTENT)	2
INTRODUCTION TO GOOGLE DRIVE	3
ADMINISTRATION OF GOOGLE DRIVE CONNECTOR (REQUIRED)	3
GOOGLE DRIVE CONNECTIONS.....	4
GOOGLE DRIVE CONNECTION OVERVIEW	4
GOOGLE DRIVE CONNECTION PROPERTIES	5
DATA SYNCHRONIZATION TASKS WITH GOOGLE DRIVE	5
GOOGLE DRIVE SOURCES IN DATA SYNCHRONIZATION TASKS	5
GOOGLE DRIVE TARGETS IN DATA SYNCHRONIZATION TASKS	7
EXAMPLE GOOGLE DRIVE DATA SYNCHRONIZATION TASK (OPTIONAL).....	8
MAPPING AND MAPPING CONFIGURATION TASKS WITH GOOGLE DRIVE	10
GOOGLE DRIVE SOURCE IN MAPPING AND MAPPING CONFIGURATION TASKS.....	10
GOOGLE DRIVE TARGETS IN MAPPING AND MAPPING CONFIGURATION TASKS	10
EXAMPLE GOOGLE DRIVE MAPPING AND MAPPING CONFIGURATION TASK (OPTIONAL)	11

Google Drive Connector User Guide

Introduction to Google Drive Connector

Google Drive Connector can be used to Provide connectivity to Google Drive to and from variety of external sources.

Google Drive Connector Overview (Required)

Google Drive Connector can be used to upload, download and fetching the list of files. It can also be used to create new file, update existing files or get the comments on files, replies on comments, permissions of user over files. It can be used to fetch and update the details of revisions.

Google Drive Connector Task and Object Types (Required)

This Connector is flat record based and it supports both Data Synchronization Task and Mapping Configuration Task. Only Basic Filters is supported and Advanced Filters is not supported.

The following table lists the Google Drive object types that you can include in Informatica Cloud tasks:

Task Type	Source	Target	Lookup
Data synchronization	Yes	Yes	Yes
Mapping configuration	Yes	Yes	Yes

Google Drive Objects (Based on content)

You can work with the following types of Google Drive objects in Informatica Cloud:

Standard objects

The standard Objects supported by Google Drive are About, Changes_GetStartPageToken, Changes_List, Comments_Create, Comments_List, Comments_Get, Comments_Update, Comments_Delete, Files_List, Files_Get, Files_Create, Files_Update, Files_Delete, Permissions_Create, Permissions_List, Permissions_Get, Permissions_Update, Permissions_Delete, Replies_Create, Replies_List, Replies_Get, Replies_Update, Replies_Delete, Revisions_List, Revisions_Get, Revisions_Update, Revisions_Delete.

Object Name	Read	Insert	Update	Delete	Upsert
About	Yes	NA	NA	NA	NA
Changes_GetStartPageToken	Yes	NA	NA	NA	NA
Changes_List	Yes	NA	NA	NA	NA
Comments_Create	NA	Yes	NA	NA	NA
Comments_List	Yes	NA	NA	NA	NA
Comments_Get	Yes	NA	NA	NA	NA
Comments_Update	NA	NA	Yes	NA	NA
Comments_Delete	NA	NA	NA	Yes	NA
Files_List	Yes	NA	NA	NA	NA
Files_Get	Yes	NA	NA	NA	NA
Files_Create	NA	Yes	NA	NA	NA
Files_Update	NA	NA	Yes	NA	NA
Files_Delete	NA	NA	NA	Yes	NA
Permissions_Create	NA	Yes	NA	NA	NA
Permissions_List	Yes	NA	NA	NA	NA
Permissions_Get	Yes	NA	NA	NA	NA
Permissions_Update	NA	NA	Yes	NA	NA

Permissions_Delete	NA	NA	NA	Yes	NA
Replies_Create	NA	Yes	NA	NA	NA
Replies_List	Yes	NA	NA	NA	NA
Replies_Get	Yes	NA	NA	NA	NA
Replies_Update	NA	NA	Yes	NA	NA
Replies_Delete	NA	NA	NA	Yes	NA
Revisions_List	Yes	NA	NA	NA	NA
Revisions_Get	Yes	NA	NA	NA	NA
Revisions_Update	NA	NA	Yes	NA	NA
Revisions_Delete	NA	NA	NA	Yes	NA

Introduction to Google Drive

Google Drive is a file storage and synchronization service. Google Drive allows users to store files in cloud, synchronize files across devices, and share files. Google Drive encompasses Google Docs, Sheets and Slides, an office suite that permits collaborative editing of documents, spreadsheets, presentations, drawings, forms, and more. Files created and edited through the office suite are saved in Google Drive.

Administration of Google Drive Connector (required)

Before using the Google Drive connector, the following pre-requisites task must be completed:

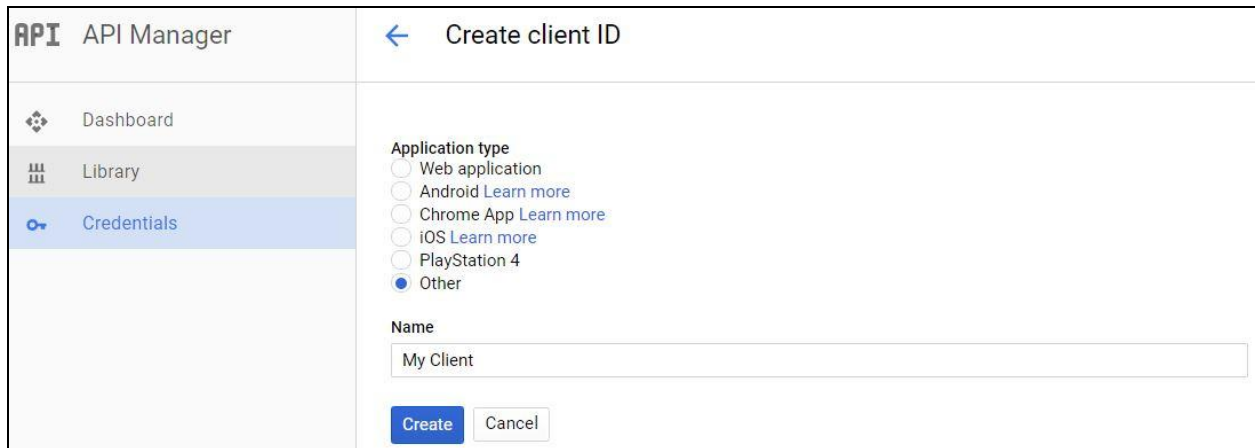
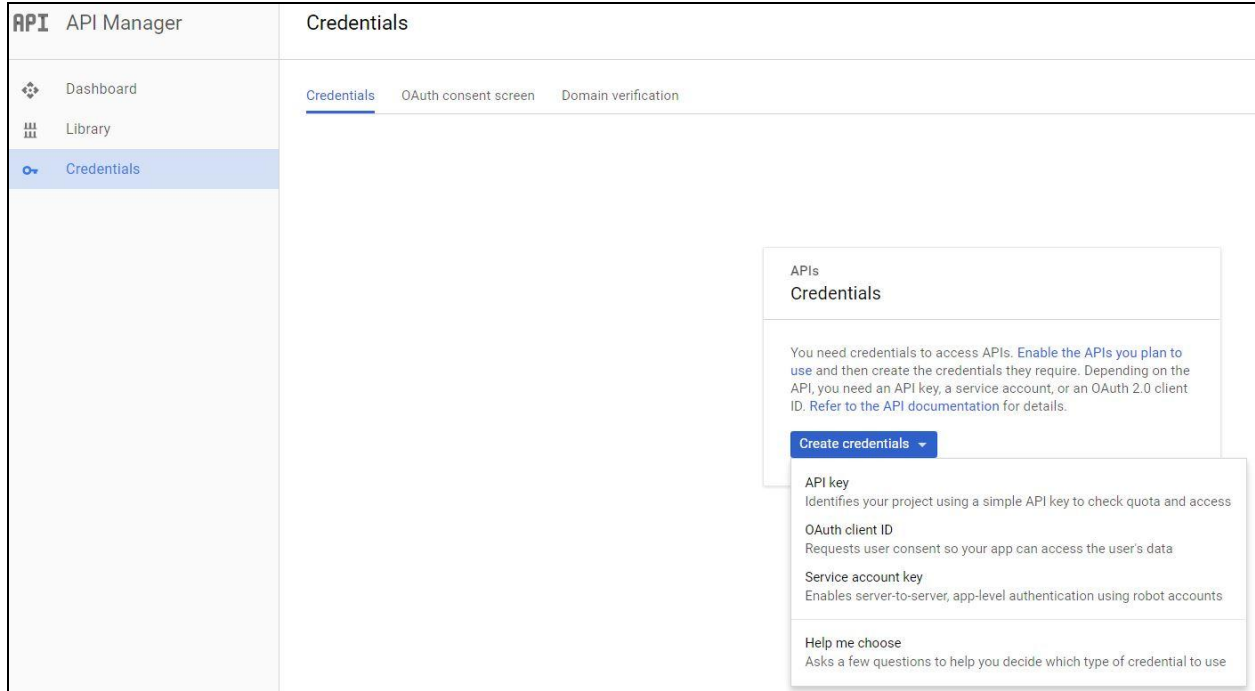
1. Create Google Account to access Google Drive.
2. Go to Google Developers Console (<https://console.developers.google.com/>).
3. **Enable APIs for your project**

Any application that calls Google APIs needs to enable those APIs in the API Console. To enable the appropriate APIs for your project:

 - a) Open the [Library](#) page in the API Console.
 - b) Select the project associated with your application. Create a project if you do not have one already.
 - c) Use the **Library** page to find each API that your application will use. Click on each API and enable it for your project.
4. **Create authorization credentials**

Any application that uses OAuth 2.0 to access Google APIs must have authorization credentials that identify the application to Google's OAuth 2.0 server. The following steps explain how to create credentials for your project. Your applications can then use the credentials to access APIs that you have enabled for that project.

 - a) Open the [Credentials page](#) in the API Console.
 - b) Click **Create credentials > OAuth client ID**.
 - c) Complete the form.
5. Download the JSON file.
6. Go through the following link that mention the process to get the Refresh token.
<https://developers.google.com/identity/protocols/OAuth2InstalledApp>



Google Drive Connections

Create a Google Drive connection to read data from Google Drive source and write data to a Google Drive target. You must create a connection for Google Drive Object that you want to connect to. You can use Google Drive connections in Data Synchronization tasks, Mapping Configuration tasks and mappings.

Google Drive Connection Overview

Google Drive connector has 6 connection attributes and out of which 3 are mandatory.

Create an Google Drive connection to access Google Drive data from Informatica Cloud. 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.

Google Drive Connection Properties

Connection Attributes	Mandatory	Description
Client ID	Yes	The Client ID from Google Developer Console
Client Secret	Yes	The Client Secret from Google Developer Console.
Refresh Token	Yes	The Refresh Token recieved after exchanging authorization code.
File Download Path	No	The Directory where file needs to be downloaded.
File Upload Path	No	The Directory where file is stored and needs to be uploaded.
PageSize	No	The pagesize for the read operation(Default value is 10)

The following snapshot gives the connection information:

Edit Connection

OK Cancel Test

✔ The test for this connection was successful.

Connection Details

Connection Name:*

Description:

Type:* ?

Google Drive Connection Properties

Runtime Environment:* ?

Client Id:*

Client Secret:*

Refresh Token:*

File Download Path:

File Upload Path:

Page Size:

Data synchronization Tasks with Google Drive

Google Drive Sources in Data synchronization Tasks

About, Changes_GetStartPageToken, Changes_List, Comments_List, Comments_Get, Replies_List, Replies_Get, Files_List, Files_Get, Permissions_List, Permissions_Get, Revisions_List and Revisions_Get objects are supported under source.

Only Basic Filters is supported and advanced Filters is not supported. Following are the examples of the filters for the objects. Following tables gives information on filters for the Changes_List, Comments_List, Comments_Get, Replies_List, Replies_Get, Files_List, Files_Get, Revisions_List, Revisions_Get, Permissions_List and Permissions_Get objects.

Changes_List:

fieldname	Operator	DataType	Example
pageToken	=	String	4068
includeRemoved	=	Boolean	true
restrictToMyDrive	=	Boolean	false
spaces	=	String	drive

Comments_List:

fieldname	Operator	DataType	Example
fileId	=	String	1PFA00v7Y7LCgeYXsHUPhE3hznGb2G97JdiLAJsh46YM

Comments_Get:

fieldname	Operator	DataType	Example
id	=	String	AAAABDjWDCo
fileId	=	String	1PFA00v7Y7LCgeYXsHUPhE3hznGb2G97JdiLAJsh46YM

Replies_List:

fieldname	Operator	DataType	Example
commentId	=	String	AAAABDjWDCo
fileId	=	String	1PFA00v7Y7LCgeYXsHUPhE3hznGb2G97JdiLAJsh46YM
includeDeleted	=	Boolean	false
pageToken	=	String	null

Replies_Get:

fieldname	Operator	DataType	Example
replyId	=	String	AAAABNKRAo
commentId	=	String	AAAABDjWDCo
fileId	=	String	1PFA00v7Y7LCgeYXsHUPhE3hznGb2G97JdiLAJsh46YM
includeDeleted	=	boolean	false

Files_Get:

fieldname	Operator	DataType	Example
id	=	String	0B4MM8Zr4yD5xVDFzcDFaVWs1c1U

Revisions_List:

fieldname	Operator	DataType	Example
id	=	String	1PFA00v7Y7LCgeYXsHUPhE3hznGb2G97JdiLAJsh46YM

Revisions_Get:

fieldname	Operator	DataType	Example
fileId	=	String	1PFA00v7Y7LCgeYXsHUPhE3hznGb2G97JdiLAJsh46YM
revisionId	=	String	5
acknowledgeAbuse	=	Boolean	false

Permissions_List:

fieldname	Operator	DataType	Example
fileId	=	String	1PFA00v7Y7LCgeYXsHUPhE3hznGb2G97JdiLAJsh46YM

Permissions_Get:

fieldname	Operator	DataType	Example
permissionId	=	String	09378765391695072284
fileId	=	String	1PFA00v7Y7LCgeYXsHUPhE3hznGb2G97JdiLAJsh46YM

Google Drive Targets in Data synchronization Tasks

Comments_Create, Comments_Delete, Comments_Update, Replies_Create, Replies_Delete, Replies_Update, Files_Create, Files_Delete, Files_Update, Permissions_Create, Permissions_Delete, Permissions_Update, Revisions_Delete and Revisions_Update objects are supported under target.

Example Google Drive Data synchronization Task (optional)

1. Files_List

Read:

1.The Data Synchronization Task for File List operation in which,Definition includes task name as **GoogleDrive_DSS** and Task operation should be Insert

Data Synchronization Task Wizard

1 Definition | 2 Source | 3 Target | 4 Data Filters | 5 Field Mapping | 6 Schedule

< Previous | Next > | Save v | Cancel

Task Details

Task Name:* ?

Description: ?

Task Operation:* ?

2. The Data Synchronization Task for File List operation in which, Source includes Connection name as **gck_gd_test** and Source type should be Single and Source object should be **Files_List**.

Data Synchronization Task Wizard (GoogleDrive_DSS)

1 Definition | 2 Source | 3 Target | 4 Data Filters | 5 Field Mapping | 6 Schedule

< Previous | Next > | Save v | Cancel

Source Details

Connection:* View... New... ?

Source Type:* Single Multiple Saved Query

Source Object:* Select... ?

Display technical names instead of labels
 Display source fields in alphabetical order

Data Preview

Files_List (Total columns: 86)

kind	id	name	kind	mimeType	description	...
drive#file	1v1vhlixN_xzksOOCu1UT9uIF3pbn...	GreytHR		application/vnd.google-apps.sp...		...
drive#file	1logQbtjVfD5ziUJ2AaFnudwxCEDcK...	IDP 2017-2018.xlsx		application/vnd.google-apps.sp...		...
drive#file	1zg5EvC_8usVs-_z-ZXyg2iE84nPrv...	Test1		application/vnd.google-apps.do...		...
drive#file	0B4MM8Zr4yD5xSkw4V0JNTFgtRTA	Google.txt		text/plain		...
drive#file	0B4MM8Zr4yD5xNHhmRnRkczJSOXM	googledelete.txt		text/plain		...
drive#file	1nChxoEoGttKiM95KENodxtvviGa...	ShareTest1		application/vnd.google-apps.do...		...
drive#file	0B4MM8Zr4yD5xSGNsb1F4ZWFkc3M	NppShell_06.dll		application/x-dosexec		...
drive#file	0B4MM8Zr4yD5xMloxOF80UTJQTnM	TestFolder1		application/vnd.google-apps.fo...		...
drive#file	0B4MM8Zr4yD5xMTVDRkplRUpqeTg	TestFolder2		application/vnd.google-apps.fo...		...
drive#file	0B4MM8Zr4yD5xVDFzcDFaVWs1c1U	readme123.txt		text/plain		...

3. The Data Synchronization Task for File List operation in which, Target includes Connection name as **P_Flatfile** and Target Object should be like Files_List.csv.

Data Synchronization Task Wizard (GoogleDrive_DSS)

1 Definition 2 Source 3 Target 4 Data Filters 5 Field Mapping 6 Schedule

< Previous Next > Save Cancel

Target Details

Connection:* P_Flatfile View... New... ?

Target Object:* Files_List.csv Select... Formatting Options... Create Target... ?

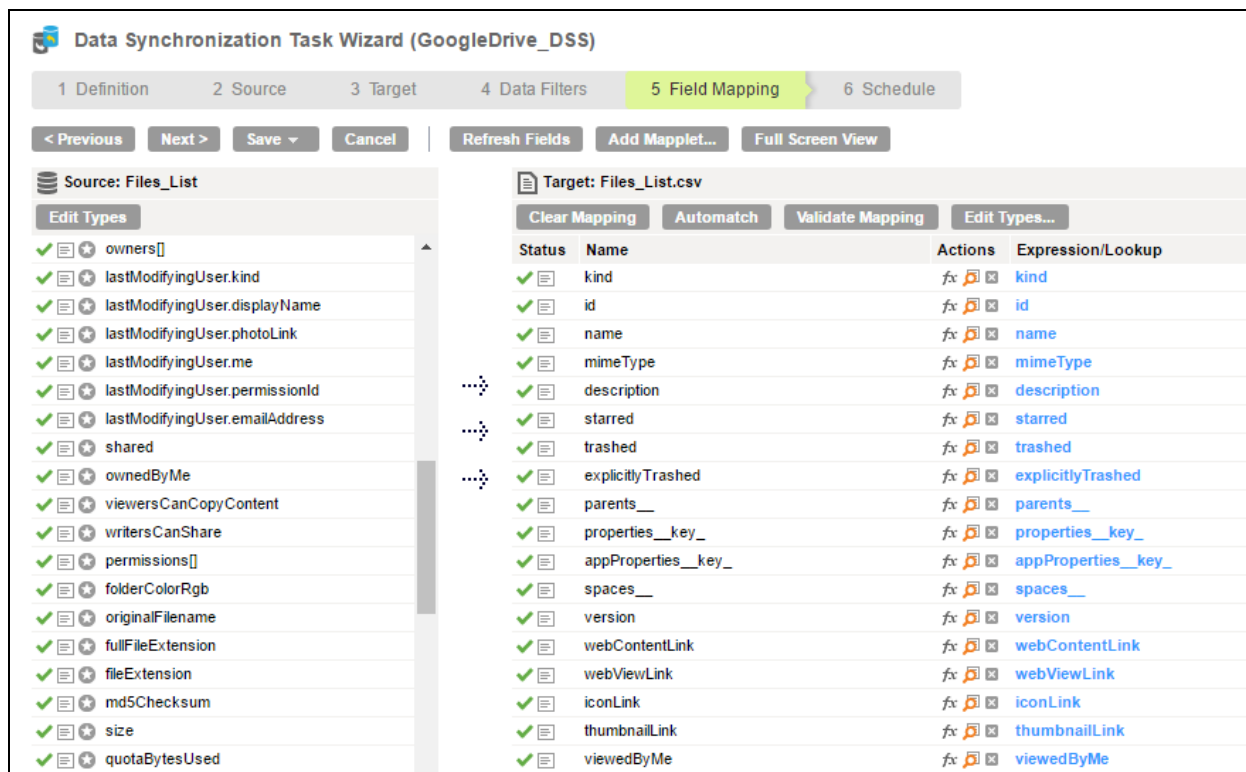
Display target fields in alphabetical order

Data Preview

Files_List.csv Preview All Columns (Total columns: 86)

kind	id	name	mimeType	description	...
drive#file	1zg5EvC_8usVs_-z-ZXyg2IE84nPrv...	Test1	application/vnd.google-apps.do...		...
drive#file	1PFA00v7Y7LCgeYXsHUPhE3hznGb2G...	Untitled document	application/vnd.google-apps.do...		...
drive#file	0B4MM8Zr4yD5xTXdkX05BaXBRV1E	10.1.1_Informatica_Connector_T...	application/zip		...
drive#file	0B4MM8Zr4yD5xVDFzcDFaVWs1c1U	readme123.txt	text/plain		...
drive#file	0B4MM8Zr4yD5xN21PRjJaMkRBR1E	NppShell_06.dll	application/x-dosexec		...
drive#file	1bkYP8lICZ_pUcYwnmJUq1QtgXMmS...	Test2	application/vnd.google-apps.do...		...
drive#file	0B4MM8Zr4yD5xTGRQSWFlEHo5TXM	drive_credential_test.txt	text/plain		...
drive#file	0B4MM8Zr4yD5xQ2NIUFpIS05BaXc	eclipse-jee-neon-3-win32-x86_6...	application/zip		...
drive#file	0B4MM8Zr4yD5xUINmLXFvYXNJSFE	CallidusCloud.zip	application/zip		...
drive#file	0B4MM8Zr4yD5xLW9DTk5pUUIvzbzQ	gd	application/vnd.google-apps.fo...		...

4. The Data Synchronization Task for File List operation in which, Filed Mapping contains Source and Target in which we have to map like this : kind will map with kind.



Mapping and Mapping configuration Tasks with Google Drive

Google Drive Source in Mapping and Mapping configuration Tasks

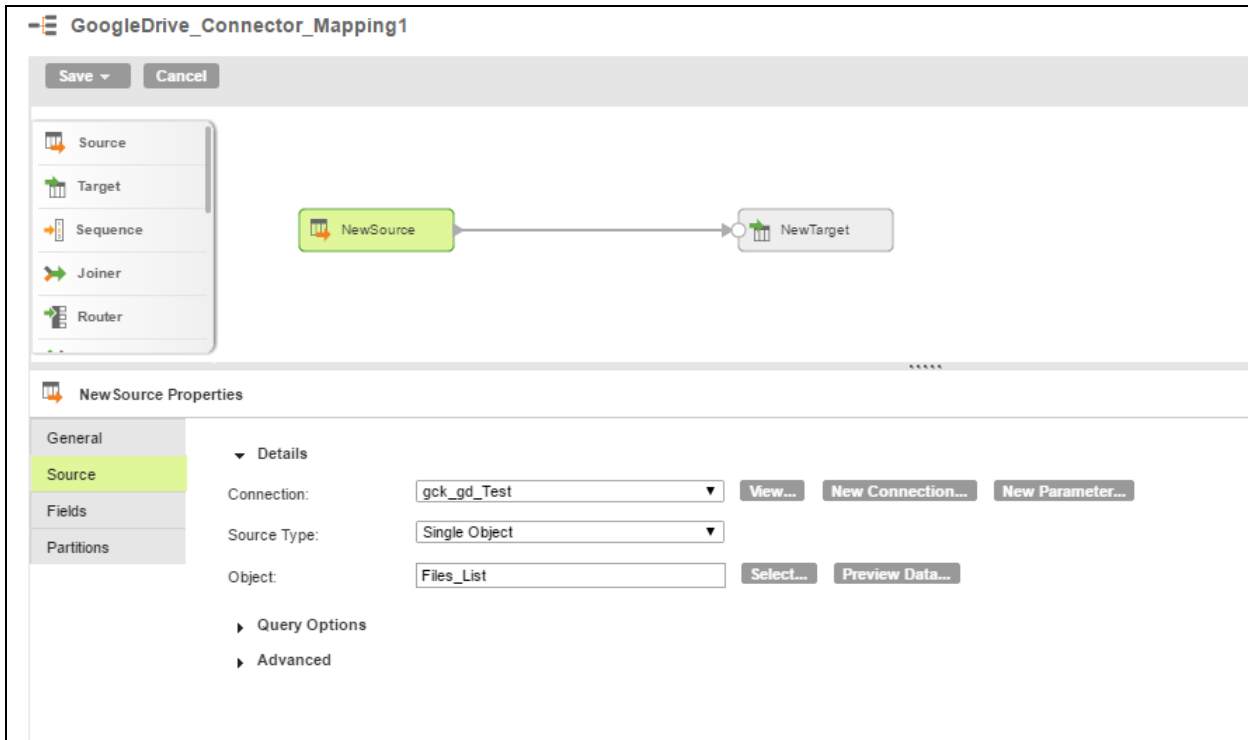
About, Changes_GetStartPageToken, Changes_List, Comments_List, Comments_Get, Replies_List, Replies_Get, Files_List, Files_Get, Permissions_List, Permissions_Get, Revisions_List and Revisions_Get objects are supported under source.

Google Drive Targets in Mapping and Mapping configuration Tasks

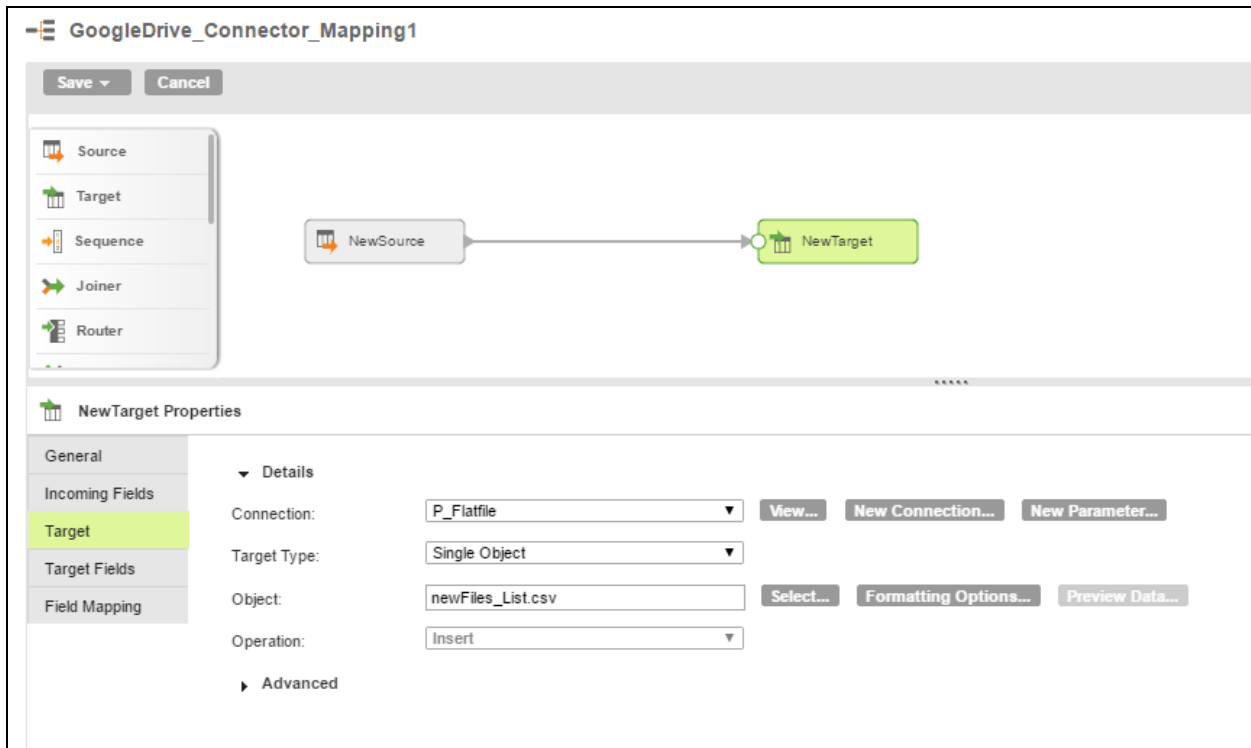
Comments_Create, Comments_Delete, Comments_Update, Replies_Create, Replies_Delete, Replies_Update, Files_Create, Files_Delete, Files_Update, Permissions_Create, Permissions_Delete, Permissions_Update, Revisions_Delete and Revisions_Update objects are supported under target.

Example Google Drive Mapping and Mapping configuration Task (optional)

1.The Mapping Task for FileList operation in which Task name as **GoogleDrive_Connector_Mapping1** and take New Source and New Target and give Properties to Source. Source includes connection name as **gck_gd_task** and source type as single object and Object as Files_List



2.The Mapping Task for **Files_List** operation in which, in Target we have to give connection name as **P_Flatfile** and Target type as single Object and Object as newFiles_List.csv and operation is insert.



1.The Mapping configuration task for **Files_List** operation in which, Defination have task name as GoogleDrive_MCT1 and Runtime environment as **DESKTOP-N8SQ47H** and task based on mapping and mapping name we should give **GoogleDrive_Connector_Mapping1**.

The screenshot displays the 'Mapping Configuration Task Wizard (GoogleDrive_MCT1)' interface. It features two tabs: '1 Definition' (active) and '2 Schedule'. Navigation buttons include '< Previous', 'Next >', 'Save', and 'Cancel'. The 'Task Details' section contains the following fields:

- Task Name:** GoogleDrive_MCT1
- Description:** (empty text area)
- Runtime Environment:** DESKTOP-N8SQ47H (dropdown menu with a help icon)
- Task Based On:** Mapping Integration Template
- Mapping:** GoogleDrive_Connector_Mapping1 (dropdown menu with a 'Select...' button)

Below the details, the 'Mapping Image: GoogleDrive_Connector_Mapping1' is shown. A diagram illustrates the mapping flow from a 'NewSource' icon to a 'NewTarget' icon.

API References: <https://developers.google.com/drive/v3/reference/>