Informatica®

Informatica® Cloud Data Integration

Dropbox Connector

Informatica Cloud Data Integration Dropbox Connector
October 2022

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Preface

Use *Dropbox Connector* to learn how to read from or write to Dropbox by using Cloud Data Integration. Learn to create a Dropbox Connection, develop and run synchronization tasks, mappings, and mapping tasks in Cloud Data Integration.

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CHAPTER 1

Dropbox Connector

Use Dropbox Connector to integrate your Dropbox account with other applications. You can upload, delete, and insert files from supported applications to Dropbox. Dropbox Connector can synchronize your data to different applications. With the use of the Dropbox Connector you can access your data from anywhere.

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

Dropbox Connector Task Operation and Object Types

The following table lists the objects and operations that Dropbox Connector supports:

Objects	Read	Insert	Update	Upsert	Delete	Data Preview	Lookup
Download	Yes	NA	NA	NA	NA	Yes	Yes
Upload	NA	Yes	NA	NA	NA	NA	NA
Delete	NA	NA	NA	NA	Yes	NA	NA
Move	NA	Yes	NA	NA	NA	NA	NA
Restore	NA	Yes	NA	NA	NA	NA	NA
Revisions	Yes	NA	NA	NA	NA	Yes	Yes

Note: Table shows support of lookup for download and Revision objects.

Objects Description

The following table describes the objects that Dropbox Connector supports:

Object	Supported Task Operation	Description
Download	Insert	Fetches files and folders from Dropbox to an application.
Upload	Insert	Uploads files and folders from an application to Dropbox.

Object	Supported Task Operation	Description
Delete	Delete	Deletes files from Dropbox.
Move	Insert	Moves files from one folder to another within Dropbox.
Restore	Insert	Restores deleted files in Dropbox.
Revision	Insert	Gets latest revision of files available in Dropbox.

CHAPTER 2

Dropbox Connections

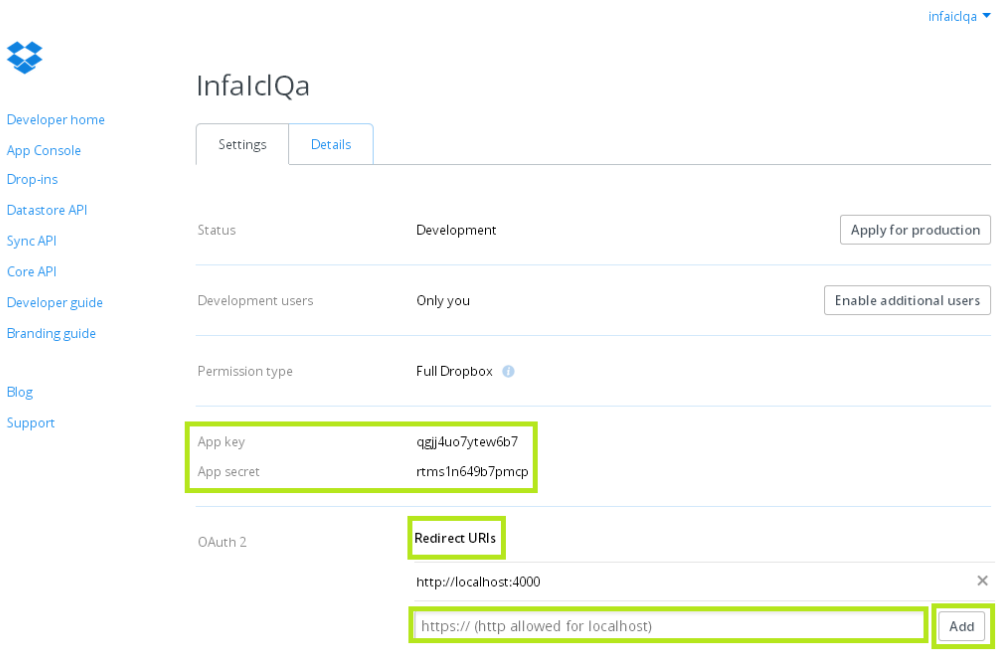
To use Dropbox Connector in synchronization task, you must create a connection in Data Integration. Based on the location of your Secure Agent, you can create a Dropbox Connection in Data Integration.

Dropbox connection properties

The following table lists the connection properties for a Dropbox Connection:

Connection property	Description
Connection Name	Name for the connection.
Description	Description for the connection.
Type	Type of connection. Select Dropbox from the list.
Runtime Environment	The name of the runtime environment where you want to run the tasks. You can specify a Secure Agent or serverless runtime environment.
App Key	Dropbox account name. Enter the App Key obtained from the **Dropbox App Console**.
App Secret	Dropbox account password. Enter the App Secret obtained from the **Dropbox App Console**.
Agent Hosted on this system	Specify if the system hosts the agent or not.
Authorization code	- Not applicable, when the system hosts the Secure Agent. - When system does not host the Secure Agent, you need to enter the authorization code to get the access token. After specifying the Target folder in connection parameters, test the connection. When you test the connection, an URL link appears in the connection page which specifies the Authorization code.
Access Token	Access token obtained after testing the connection.
Target Folder	Location of target directory to save the files that Dropbox downloads. For example, \..\..\Dropbox\Target\
Enable Logging	Logs the user, who creates the connection. Select the checkbox to enable logging.

Note: While creating a connection, mention the redirect URI `http://localhost:4000` in the Dropbox App settings page.



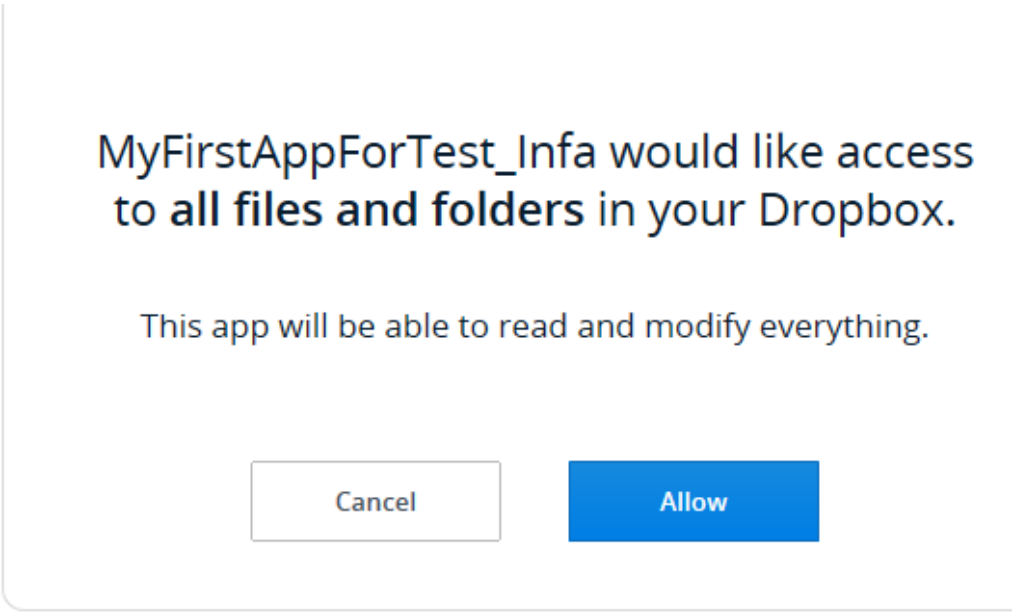
Creating a Dropbox Connection on a Machine that Hosts the Secure Agent

You can create a Dropbox connection on the Secure Agent machine that you use to connect to Data Integration. To use Dropbox Connector in a synchronization task, you must first create a connection in Data Integration.

You can configure a connection on the Connections page or in a wizard as you configure a task.

1. On the **Connections** page, click **New Connection** to create a connection.
2. Specify the connection properties.

3. Click **Test Connection** to evaluate the connection.



4. Click **Allow**.

   On the Dropbox connection page in Data Integration, you can view the access token.
5. Copy the access token from the message and paste it in the **Access Token** field.
6. Test the connection again to verify whether the connection is successful.
7. Click **Save** to save the connection.

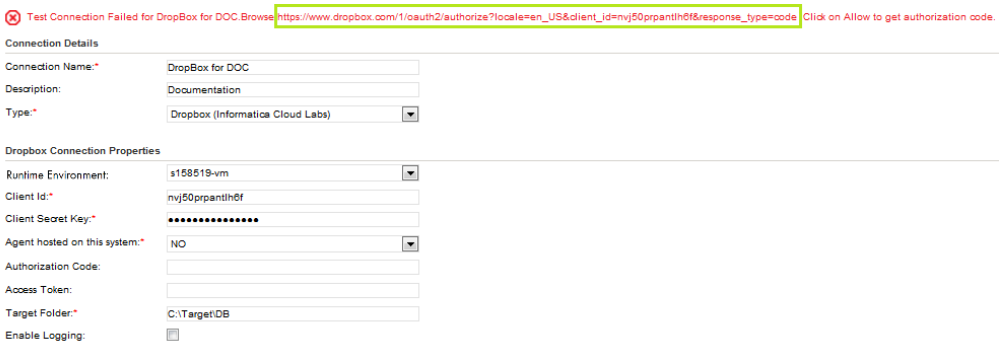
Creating a Dropbox Connection on a Machine that Does Not Host the Secure Agent

You can configure a connection on the Connections page or in a wizard as you configure a task.

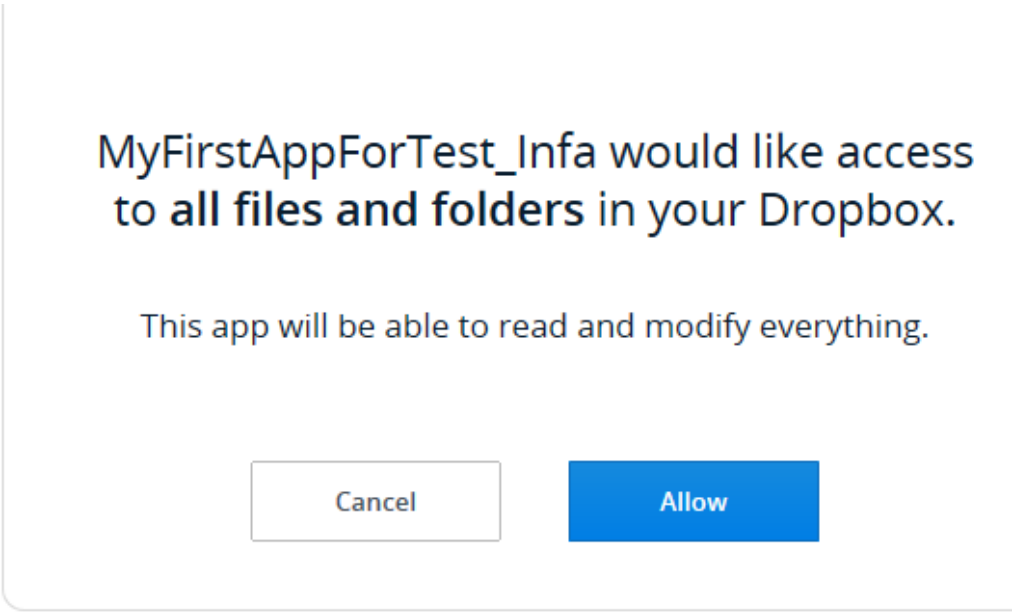
1. On the **Connections** page, click **New Connection** to create a connection.
2. Specify the connection properties.
3. Click **Test Connection** to evaluate the connection.

   A URL link appears in the connection page.

4. Copy and paste the URL link in the browser window.



The URL link page requests access to all files and folders in your Dropbox account.

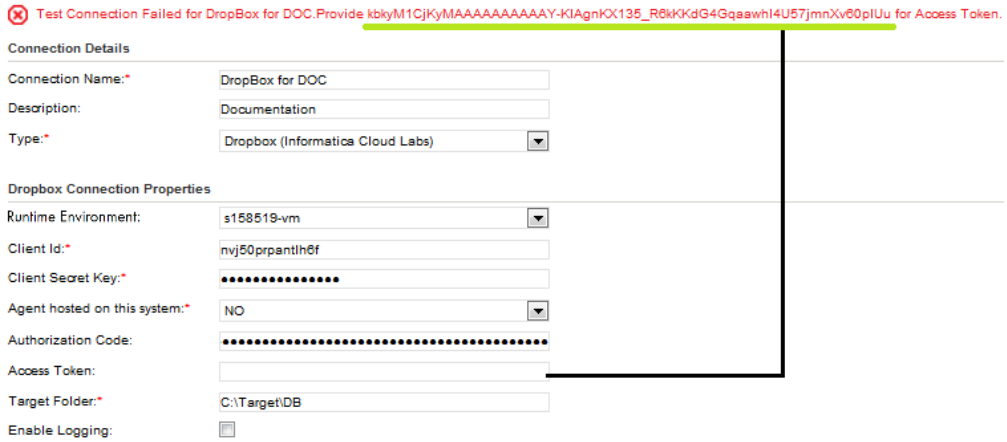


5. Click **Allow**.



6. Copy and paste the **Authorization Code** in the connection parameters.

7. Test the connection to get the access token.



8. Copy and paste the access token in the connection parameters.
9. Test the connection again to verify whether the connection is successful.
10. Click **Save** to save the connection.

CHAPTER 3

Synchronization Task with Dropbox Connector

Use a Synchronization task to synchronize data between a source and target.

You can configure a synchronization task using the Synchronization Task wizard.

When you create a task, you can associate it with a schedule to run it at specified times or on regular intervals. Or, you can run it manually. You can monitor tasks that are currently running in the activity monitor and view logs about completed tasks in the activity log.

Dropbox Sources in Synchronization Tasks

You can use a Dropbox object as a single source in a synchronization task. You configure the Dropbox source properties on the **Source** page of the Synchronization Task wizard.

The following table lists the Dropbox source properties:

Property	Description
Connection	Name of the connection.
Source Type	Type of the source object. Select Single.
Source Object	Name of the source object. For the Download and Revisions objects, the source object is Dropbox. For Upload, Delete, Move, and Restore objects, the source object is either FlatFile or Salesforce.

You need to configure specific advanced properties on the **Schedule** tab to use the source object in a synchronization task.

Advanced Source Properties	Description
Source Filter	Specifies the filter you need to apply while querying Entity.
Sorted Ports	Specifies sort specification that you need to apply while querying for Entity Attribute values.
Maximum Page Size	Maximum Page size for creating Message buffer.

Dropbox Source Synchronization Task Example 1

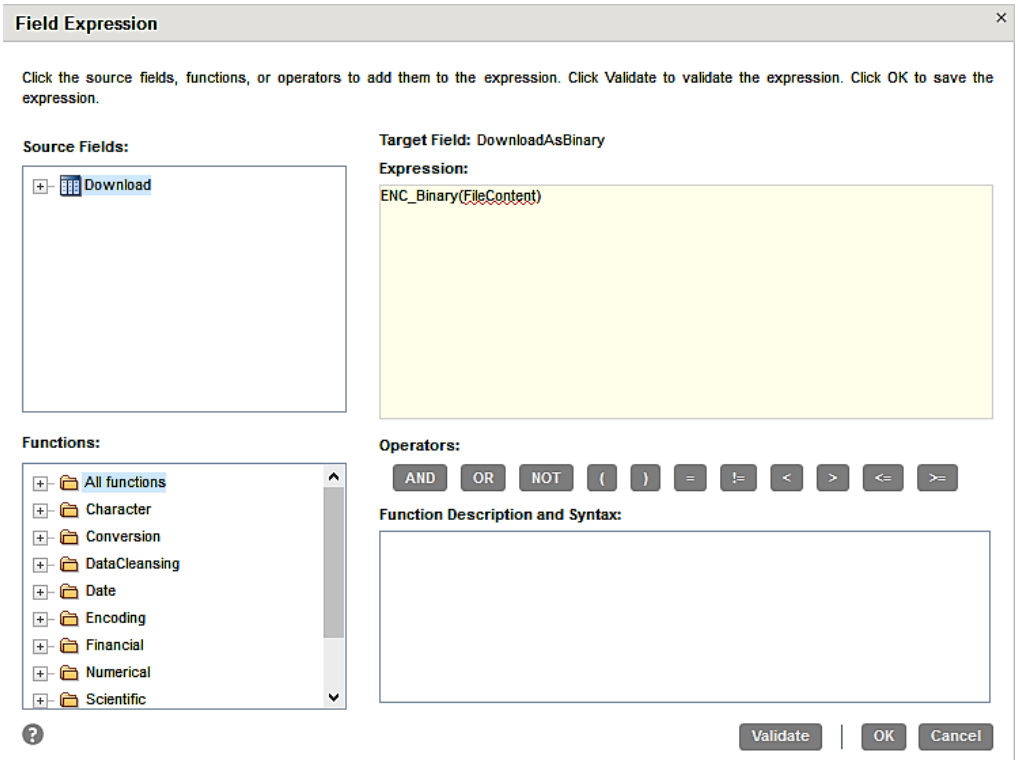
The following steps to download files from Dropbox to Salesforce:

1. On the **Source** tab, select the source **Connection** as **Dropbox**. Select the required **Source Object**.
2. On the **Target** tab, select the target **Connection** as **Salesforce**. Select the required **Target Object**.
3. On the **Data Filters** tab, apply a **DownloadAsBinary** filter:

FilterBy	Operator	Filter Value
DownloadAsBinary	Equals	1

4. On the **Field Mapping** tab, click **FX** corresponding to the **FileContent** field.

   Note: Use FX option to add or edit expressions.
5. The **Field Expression** dialog box appears.
6. Enter **ENC_Binary(FileContent)** in the **Expression** box.



7. Click **OK**.
8. Click **Save** and then **Finish**.
9. From the **Explore** page, select the task, and click **Actions** > **Run**.

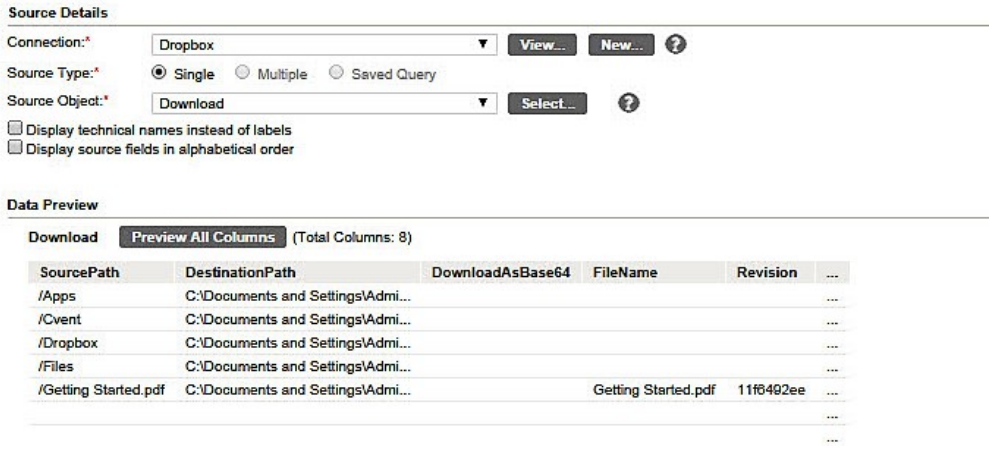
   After you run the task, you can monitor the status of the logs in the **Monitor** page.

For information about unmapping the file content, see "Unmapping File Content" on page 24.

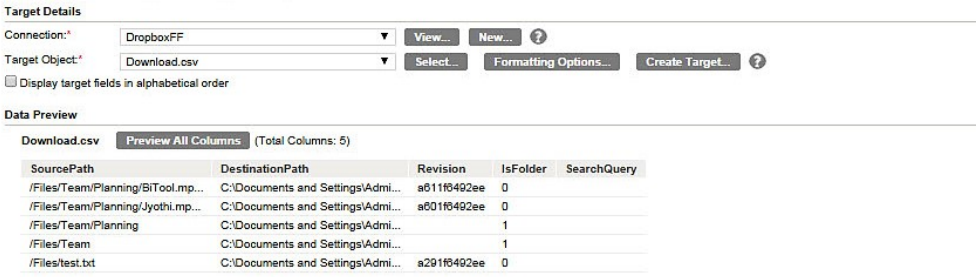
Dropbox Source Synchronization Example 2

You can use Dropbox Connector to download files from Dropbox to the local system:

1. On the **Source** tab, select **Connection** as **Dropbox** and select the required **Source Object** .



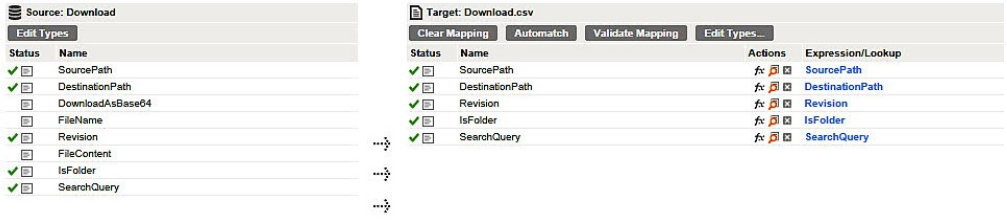
2. On the **Target** tab, select **Connection** as **DropboxFF** and select the required **Target Object** .



3. On the **Data Filters** tab, specify the data filters if any, and then click **Next.**

   Note: For binary file, **DownloadAsBinary** filter is required. If it is a physical file then filters is not required.

4. On the **Field Mapping** tab, map the fields.



5. Click **Save** and then **Finish**.
6. From the **Explore** page, select the task, and click **Actions** > **Run**.

   After you run the task, you can monitor the status of the logs in the **Monitor** page.

Dropbox Targets in Synchronization Tasks

When you run a synchronization task, specify the operation and the source that you want the Secure Agent to write to the target. The Secure Agent inserts, updates, upserts, or deletes source rows that you specify into the target based on the configured operation for the target object.

The task operations depend on the target object that you select. You can configure the target properties when you schedule the synchronization task.

The advanced target properties appear on the **Schedule** page of the Synchronization Task wizard.

The following table describes the Dropbox advanced target properties:

Advanced Target Property	Description
Success File Directory	Specifies the path and directory name where you want to save the files.
Error File Directory	Specifies the path and directory name where you want to save the error files.

Dropbox Target Synchronization Example 1

You can use Dropbox Connector to upload files from Salesforce to Dropbox:

1. On the **Source** tab, select source **Connection** as **Salesforce**. Select the required source object.
2. On the **Target** tab, select Target **Connection** as **Dropbox**. Select the required target object.
3. On the **Field Mapping** tab, click **fx** corresponding to the **FileContent** field.

   The **Field Expression** dialog box appears.
4. Enter **DEC_Binary(FileContent)** in the **Expression** box.
5. Click **OK**.
6. Click **Save** and then **Finish**.
7. From the **Explore** page, select the task, and click **Actions** > **Run**.

   After you run the task, you can monitor the status of the logs in the **Monitor** page.

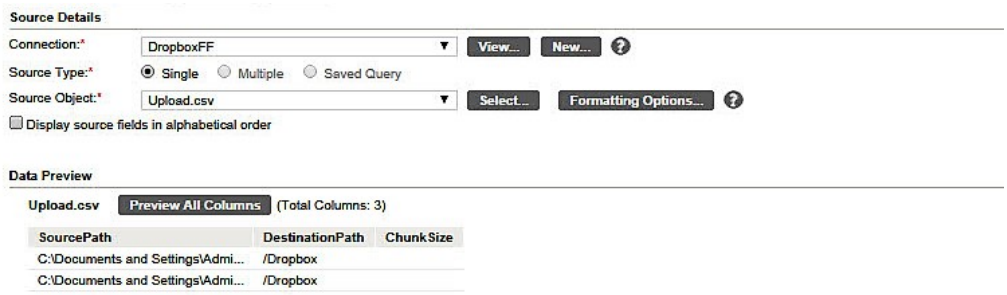
Note:

- You do not have to assign data filters to upload files from Salesforce to Dropbox.
- Binary(FileContent) supports file attachments that do not exceed 10MB.
- For information about unmapping the file content, see "Unmapping File Content" on page 24.

Dropbox Target Synchronization Example 2

You can use Dropbox Connector to upload files from local system to Dropbox:

1. On the **Source** tab, select source **Connection** as **Flat File**.



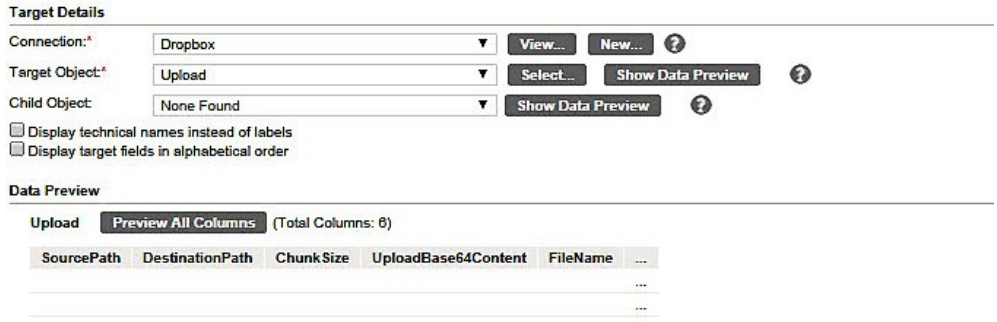
2. Create a .CSV file with the following information and select the .CSV file in the **Source Object** field:

   The .CSV file must contain the following information

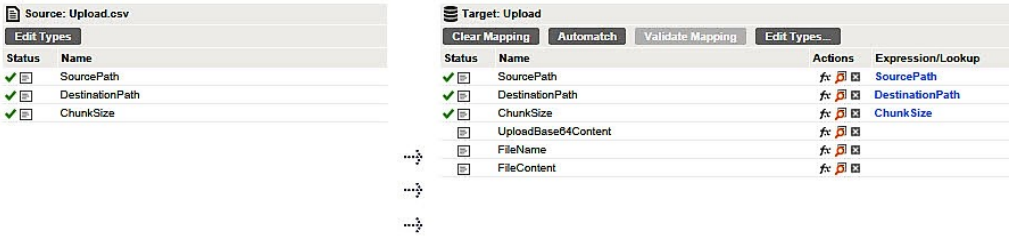
SourcePath	DestinationPath	ChunkSize	UploadBas	FileName	FileContent
E:\a_IOD\Files\Dropbox\Tgt\Upload\Delete_item.txt	/				
E:\a_IOD\Files\Dropbox\Tgt\Upload\operation_result_data_appayment.csv	/Samples				

   - SourcePath: Location of the file
   - DestinationPath: Location where you want to upload the file in Dropbox.
     Note: SourcePath and DestinationPath are mandatory fields.
   - Chunksize: Sends the data in chunks or batches. For example, if you want to upload a 10 MB file, you can upload the file in fragments of 1 MB at a time. If you specify 1 MB as the chunk size, the Secure Agent transfers 1 MB of data at a time until the transfer is complete.

3. On the **Target** tab, select Target **Connection** as **Dropbox**. Select the required target object.



4. On the **Field Mapping** tab, map the fields.



5. Click **Save** and then **Finish**.

6. From the **Explore** page, select the task, and click **Actions** > **Run**.

   After you run the task, you can monitor the status of the logs in the **Monitor** page.

Use Cases: Configure Operations for Dropbox Source and Target Objects

This section covers use case scenarios for supported operations when you configure a synchronization task to either read data from or write data to Dropbox.

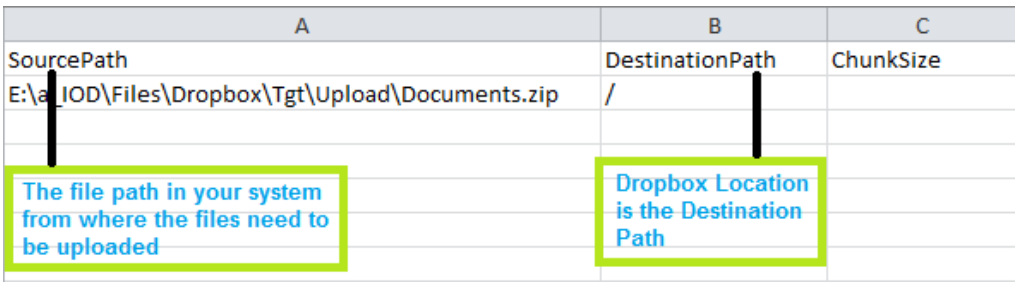
The use cases help you understand the connection types and the objects that you can configure in a synchronization task:

Object: Upload

Consider the following parameters to upload a file from your local system to Dropbox:

Parameter	Required Selection
Task Operation	Select Insert.
Source Tab, Connection	Select FlatFile connection for Dropbox.
Source Object	Manually create an `Upload.CSV` file that contains information about the file source and the target location. Select `Upload.CSV` file as the Source object.
Target Tab, Connection	Select Dropbox connection .
Target Object	Select Upload.

The `Upload.CSV` file must contain the **SourcePath** and **DestinationPath** details.



Object: Revisions

Consider the following parameters to get latest revisions of a file from Dropbox:

Parameter	Required Selection
Task Operation	Select Insert.
Source Tab, Connection	Select Dropbox connection .

Parameter	Required Selection
Source Object	Select Revisions.
Target Tab, Connection	Select FlatFile connection for Dropbox.
Target Object	In Target tab, Click **Create Target** to generate a .CSV file. The .CSV file contains information about the file revisions in Dropbox.

The .csv file must contain the following attributes:

- File Name
- Revision
- Creation Time
- Last Modified
- IconName
- Size
- Path

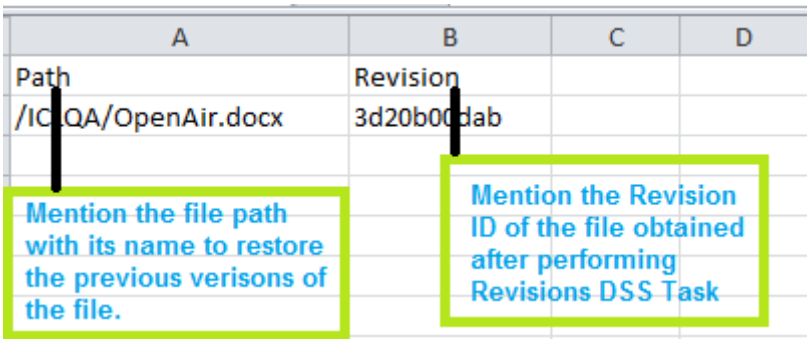
	A	B	C	D	E	F	G	H
1	FileName	Revision	CreationTime	LastModified	IconName	Size	Path	
2	error (1).docx	7620b00dab	3/12/2014 14:35	3/12/2014 14:35	page_white_word	181.2 KB	/Ajith/Level-1/Level	
3	error (1).docx	6e20b00dab	3/12/2014 14:32	3/12/2014 14:32	page_white_word	181.2 KB	/Ajith/Level-1/Level	
4	error (2).docx	7c20b00dab	3/12/2014 14:36	3/12/2014 14:36	page_white_word	181.2 KB	/Ajith/Level-1/Level	
5	error (3).docx	8220b00dab	3/12/2014 14:37	3/12/2014 14:37	page_white_word	181.2 KB	/Ajith/Level-1/Level	
6	error.docx	6d20b00dab	3/12/2014 14:28	3/12/2014 14:28	page_white_word	181.2 KB	/Ajith/Level-1/Level	
7	incidentmanagement_RetrieveIncident (1).csv	920b00dab	3/10/2014 12:05	3/10/2014 12:05	page_white	15.7 KB	/Ajith/Level-1/Level	
8	incidentmanagement_RetrieveIncident.csv	a20b00dab	3/10/2014 12:05	3/10/2014 12:05	page_white	15.7 KB	/Ajith/Level-1/Level	
9	Informatica Cloud Services.doc	4620b00dab	3/12/2014 12:37	3/12/2014 12:43	page_white_word	356.5 KB	/Ajith/Level-1/Level	
10	package-QuickBooksV2.8.zip	b20b00dab	3/10/2014 12:05	3/10/2014 12:05	page_white_compressed	6.8 MB	/Ajith/Level-1/Level	
11	package-dropbox.3.zip	820b00dab	3/10/2014 12:05	3/10/2014 12:05	page_white_compressed	0.9 MB	/Ajith/Level-1/packa	

Object: Restore

Consider the following parameters to restore deleted files in Dropbox:

Parameter	Required Selection
Task Operation	Select Insert.
Source Tab, Connection	Select FlatFile connection for Dropbox.
Source Object	Manually create a `Restore.CSV` file that contains information about the file that needs to be Restored in Dropbox. Select `Restore.CSV` file as the Source object. **Note:** You need revisions ID to restore files in Dropbox. Perform a synchronization task to fetch revisions IDs of files in Dropbox .
Target Tab, Connection	Select Dropbox connection.
Target Object	Select Restore.

The `Restore.CSV` file must contain the path and revision of the file.

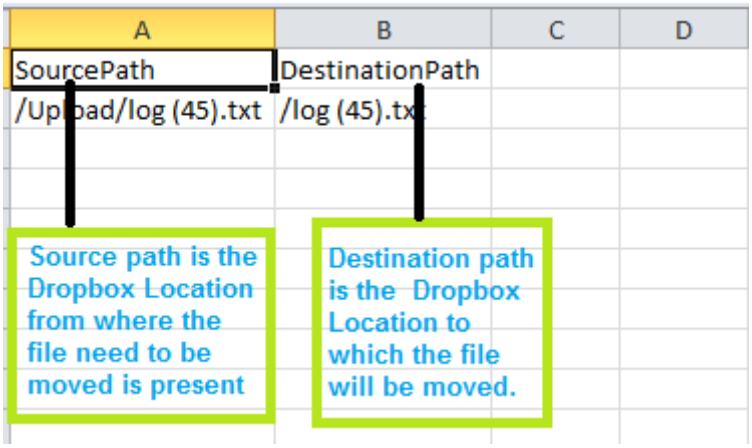


Object: Move

Consider the following parameters to move a file from one folder to another within Dropbox:

Parameter	Required Selection
Task Operation	Select Insert.
Source Tab, Connection	Select FlatFile connection for Dropbox.
Source Object	Manually create a `Move.CSV` file that contains information about the file that you want to move within Dropbox. Select `Move.CSV` file as the Source object.
Target Tab, Connection	Select Dropbox connection.
Target Object	Select Move.

The `Move.CSV` file must contain the source path and the destination path of the file you want to move.



Object: Download

Consider the following parameters to download files from Dropbox:

Parameter	Required Selection
Task Operation	Select Insert.
Source Tab, Connection	Select Dropbox connection.
Source Object	Select Download.
Target Tab, Connection	Select FlatFile connection for Dropbox.
Target Object	In Target tab, Click Create Target to generate a `Download.CSV` file .The `.CSV` file contains information about the file source and the target location.

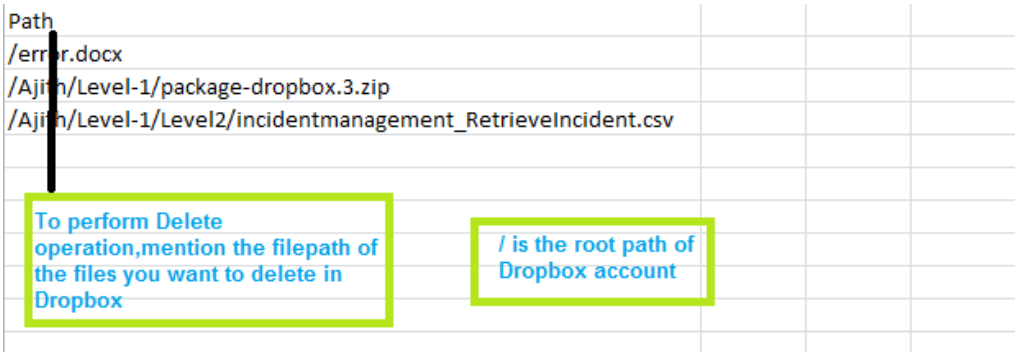
Note: Assign Data filters to the synchronization task to download only the required files from Dropbox.

Object: Delete

Consider the following parameters to delete a file from Dropbox:

Parameter	Required Selection
Task Operation	Select Delete.
Source Tab, Connection	Select FlatFile connection for Dropbox.
Source Object	Manually create a `Delete.CSV` file that contains information about the file that you want to delete in Dropbox. Select `Delete.CSV` file as the Source object.
Target Tab, Connection	Select Dropbox connection.
Target Object	Select Delete.

The Delete.CSV file must contain the path of the file which you want to delete.



Using the Data Filters

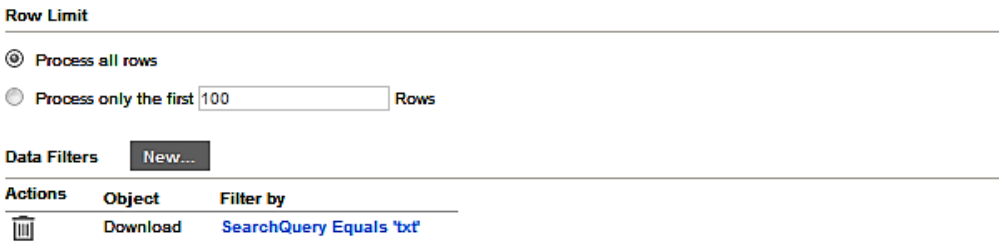
You can use data filters to fetch specific data of a particular object. The synchronization task processes the data based on the filter field assigned to the object.

Note: Dropbox Connector does not support advanced data filters.

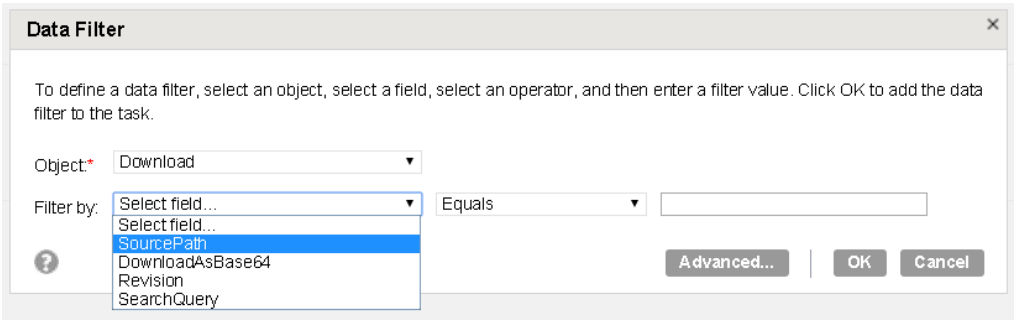
1. In a synchronization task, select **Data Filters** tab.

   The **Data Filters** tab appears.

2. Click **New**.



   The **Data Filter** dialog box appears.



3. Specify the following details:

Field Type	Description
Object	Object for which you want to assign filter fields
Filter By	Lists all filter fields. Select the Filter Field
Operator	Functional Operators. Select Equals operator. The current release supports only the Equals operator .
Filter Value	Specific value to filter. Enter a filter value

The Filter by field contains following attributes:

Attributes of Filter by Field	Description
SourcePath	The path from where you want to download the source file in Dropbox.
DownloadAsBinary	Downloads the file content in binary format when you set the attribute to true.
Revision	Lists the version or revision of the files specified in the filter value.
SearchQuery	Searches and downloads files from Dropbox. Specify the search query as .txt or .jar to download text or jar files, respectively.

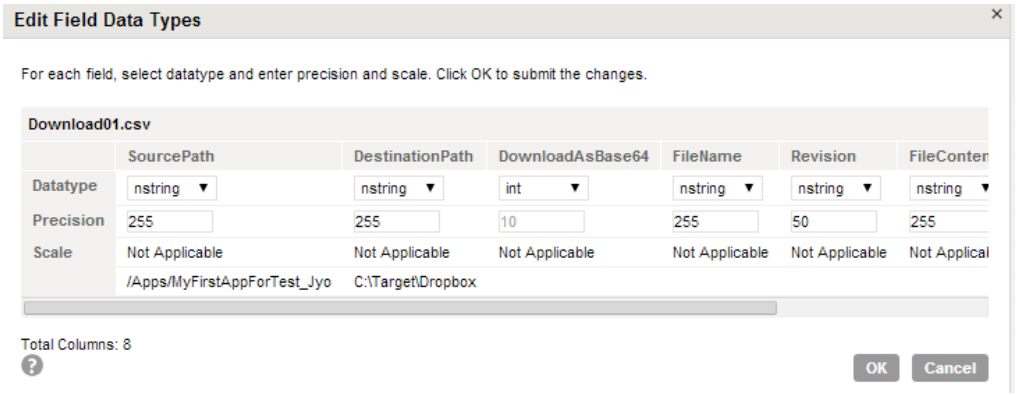
4. Click **OK**.

Editing the Data Types in the Field Mapping

You can edit field data types to customize the precision, scale, and data types of fields.

1. On the **Field Mapping** tab, click **Edit Types**.

   The **Edit Field Data Types** page appears.



2. From the list of available fields, select the field that you want to change.

   You can change the **Datatype**, **Precision**, and **Scale** for each of the available fields.

3. Click **OK** to save.

Supported Objects and Operators for Filter Fields

The following table lists the supported operators for the filter fields of Dropbox objects:

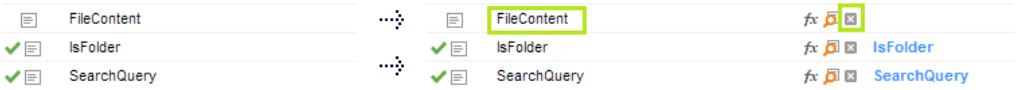
Object	Filter Fields	Data Type	Operators	Allowed Values
Download	SourcePath	String	Equals	Any String
	Revision	String	Equals	Any String

Object	Filter Fields	Data Type	Operators	Allowed Values
	SearchQuery	String	Equals	Any String
	DownloadAsBinary	Boolean	Equals	0/1
Revisions	Path	String	Equals	Any String

Unmapping File Content

When you setup synchronization tasks to download from Dropbox to your local system or to upload files from your local system to Dropbox, you must unmap the file content on the **Field Mapping** tab. If you do not unmap the file content, the synchronization task cannot run as expected, an invalid data type conversion error appears.

1. In **Field Mapping** Tab, select **FileContent** field.
2. Click  (clear expression/lookup) to unmap the **FileContent**.



Restrictions

- When the Dropbox server is down, the connector tries to contact the Dropbox server thrice. If the connection is still not successful, the following an error message appears:
  “Could not connect to Dropbox system due to some issues”.
- You cannot perform move or delete operations in the root directory of Dropbox.
- When you download files of particular revisions from Dropbox, the Dropbox Connector downloads all the revisions of the other files present in the directory also.
- When you upload a file that contains the same name as the file in Dropbox, the Secure Agent increments the file name. For example, the file cannot overwrite *ABCD.txt*. Instead another file *ABCD (1).txt* would be created.
- When you download a file or a folder that is located in another folder in Dropbox, the root folder also gets downloaded.

CHAPTER 4

Mappings and Mapping Tasks with Dropbox Connector

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

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

Dropbox Sources in Mappings and Mapping Tasks

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

The following table lists the Dropbox source properties:

Property	Description
Connection	Name of the connection.
Source Type	Type of the source object. Select Single.
Source Object	Name of the source object. For the Download and Revisions objects, the source object is Dropbox. For Upload, Delete, Move, and Restore objects, the source object is either FlatFile or Salesforce.

The following table describes the advanced properties that you can configure for a Dropbox source:

Property	Description
Source Filter	Specifies the filter you need to apply while querying Entity.
Sorted Ports	Specifies sort specification that you need to apply while querying for Entity Attribute values.
Maximum Page Size	Maximum Page size for creating Message buffer.

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.

Dropbox Targets in Mappings and Mapping Tasks

To write data to a Dropbox target, configure a Dropbox object as the Target transformation in a mapping or mapping task.. The Secure Agent inserts, updates, upserts, or deletes source rows that you specify into the target based on the configured operation for the target object.

The task operations depend on the target object that you select. Specify the name and description of Dropbox target. Configure the target and advanced properties for the target object.

The following table describes the Dropbox advanced target properties:

Advanced Target Property	Description
Success File Directory	Specifies the path and directory name where you want to save the files.
Error File Directory	Specifies the path and directory name where you want to save the error files.

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