# Copy from CSV Format to Profisee REST API

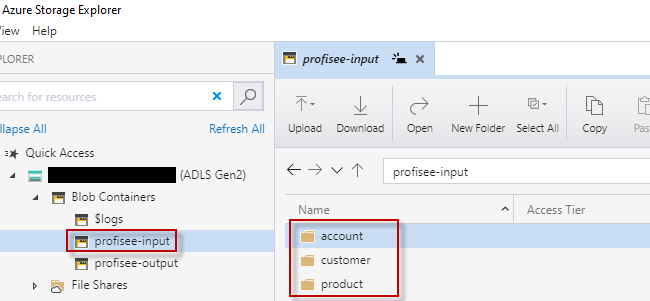
This article describes a solution template that you can use to copy records from Azure Data Lake Storage Gen2 storage, in CSV format, to Profisee REST API.

## About this solution template

This template copies records from ADLS Gen2 in CSV format to Profisee via the REST API. The file name must have the .csv extension. The template is designed to work with a folder structure consisting of folders named for each entity within the input container. Create a folder for each entity you wish to integrate with. CSV files containing updates for an entity would get uploaded to the profisee-input\<entity> folder.

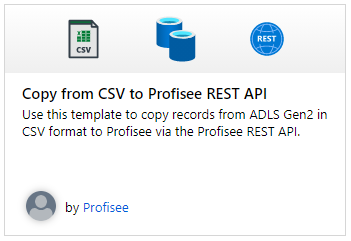
For example:

* profisee-input
  + account
  + customer
  + product

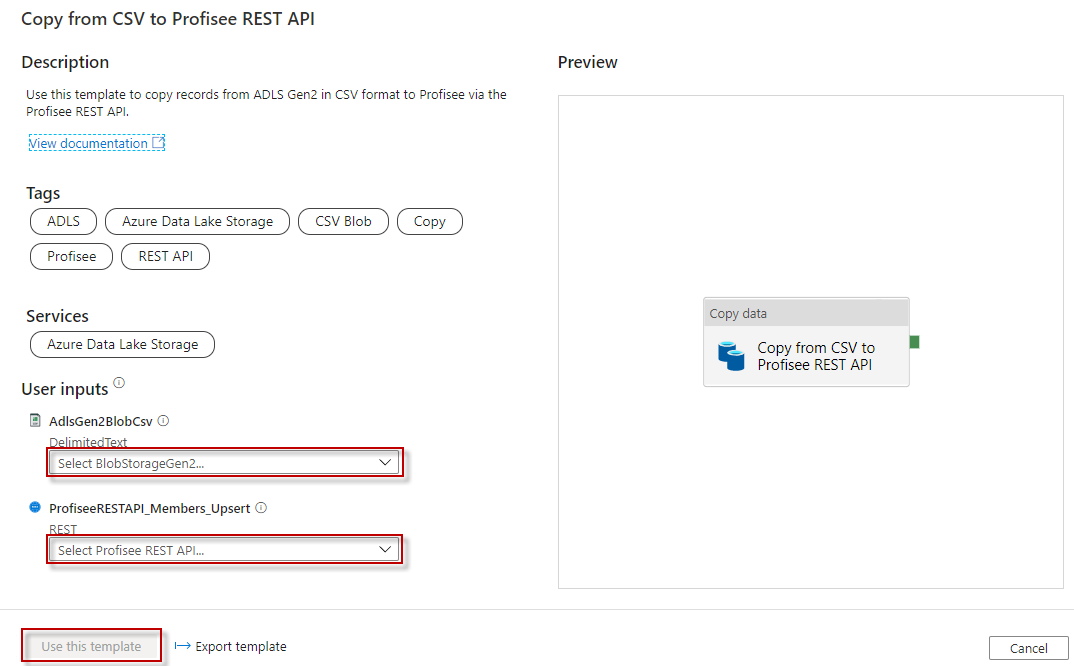


## How to use this solution template

1. Go to the **Copy from CSV to Profisee REST API** template.



1. Create a **New** or use an existing connection to the BlobStorageGen2 data store that you are copying CSV data from.
2. Create a **New** or use an existing connection to the Profisee REST API.



Follow these steps if you need to create a new REST linked service.

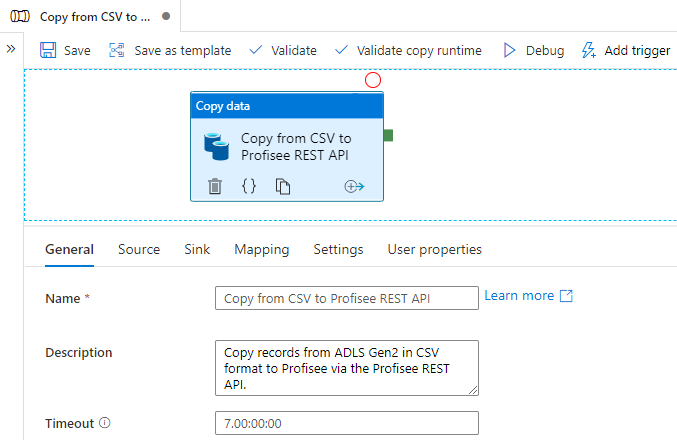
* 1. Select “+ New" from the **REST** dropdown list.



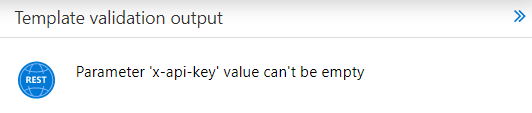
* 1. Enter the following information for the REST linked service.
     1. Name: Enter a unique name within your ADF.
     2. Description: Enter an optional description.
     3. Integration runtime: You can select the auto resolve option or create a custom integration runtime. Some linked services that ADF integrates with requires the ADF integration runtime be in the same region as the service. In this case you will need to create a custom integration runtime in the same region as that linked service.
     4. Base URL: enter the base URL to your deployed Profisee REST API.
     5. Authentication type: select **Anonymous**



1. Select **Use this template**.
2. You will see a pipeline created as shown in the following example:



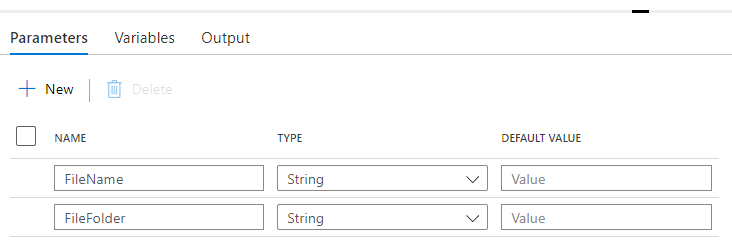
You should also see the following template validation output. We will correct that below.



## Pipeline

### Parameters

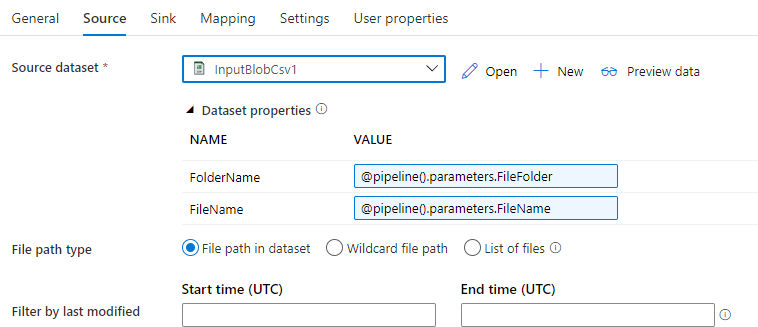
1. The FileFolder containing the file, includes the container name (e.g. profisee-input/product).
2. The FileName of the file containing the records in CSV format which the Profisee REST Update API expects. Must end in .CSV file extension.
3. If you plan on creating an Event trigger on the storage container, then you can leave the Default Values blank.



## Copy Activity

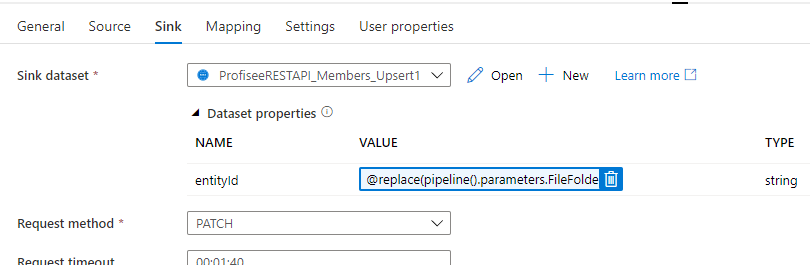
### Source

1. The Source dataset properties, FolderName and FileName, are set from the two pipeline parameters mentioned above.

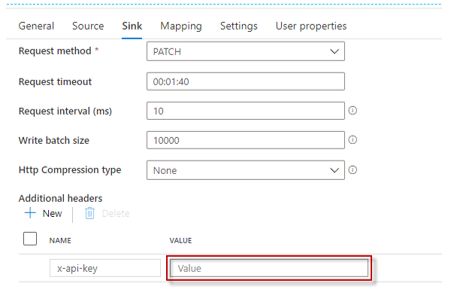


### Sink

* + 1. The Sink dataset property, **entityId**, is set using the FileFolder path. It assumes a container name of **profisee-input** however you can use a different name. For example, a FileFolder path of **profisee-input/product** will result in an entityId of **product**. Note, the entityId can be either the entity’s Name, UID, or InternalId value.



* + 1. The **Request method** must be set to **PATCH**.
    2. **x-api-key:** The Profisee API key, which is the Client Id for the user account you are using to connect to the Profisee API. The Client Id can be found in the FastApp Studio Accounts screen, within the Accounts and Teams admin area. This is entered in the Source tab.

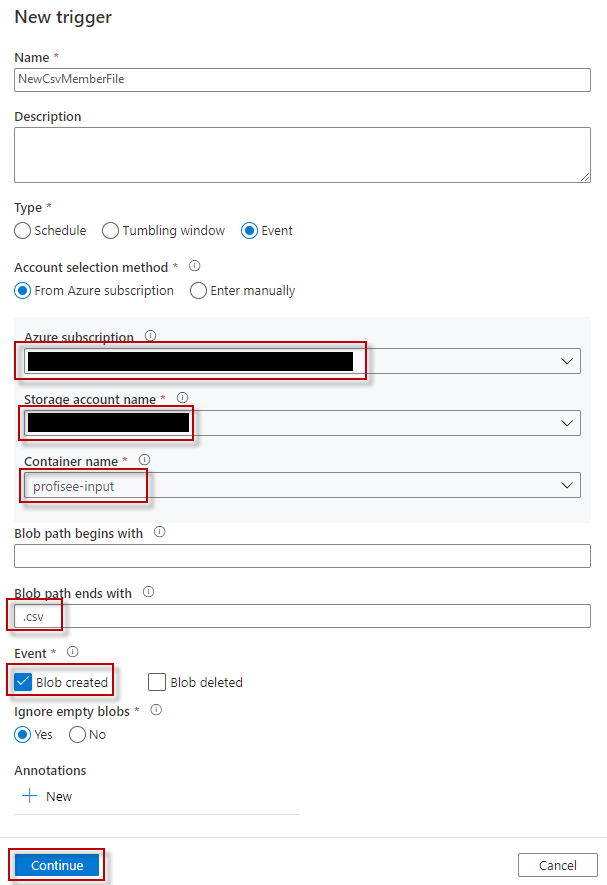


### Mapping

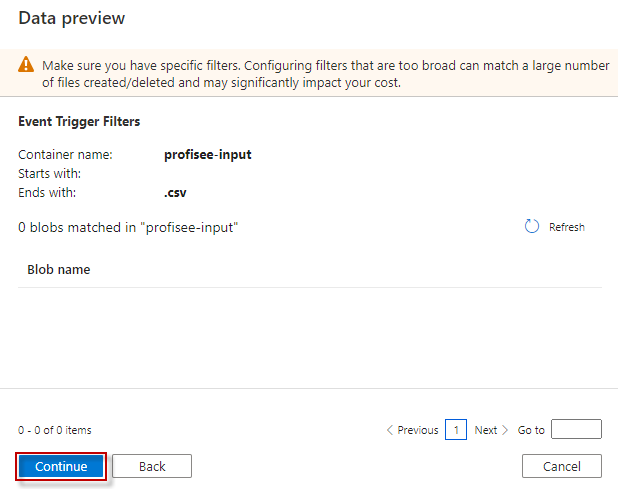
If you are copying all the fields in the file, no mapping is required. You will only need to provide mappings if you wish to only copy a subset of the fields in the file.

## Trigger

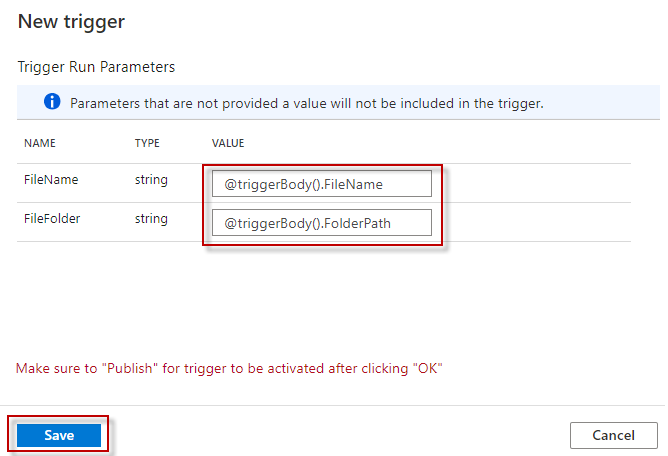
1. You can trigger the pipeline manually, but you can also create an Event trigger to trigger the pipeline to run any time a new file is uploaded to the container. See this [link](https://docs.microsoft.com/en-us/azure/data-factory/how-to-create-event-trigger) for a full description about creating them.
   1. Set up your trigger pointing to your input container. Enter the **Container name** in this format **/<container name>/**. For example: **/profisee-input/**. Click **Continue** when done. Note: the Container name must match the input container name entered in the **Set EntityName variable** activity above.



* 1. Click **Continue** on the **Data preview** page.



* 1. Enter the following **Trigger Run Parameters**.
     1. The event trigger captures the folder path and file name of the blob into the properties **@triggerBody().folderPath** and **@triggerBody().fileName**. To use the values of these properties in a pipeline, you must map the properties to pipeline parameters.



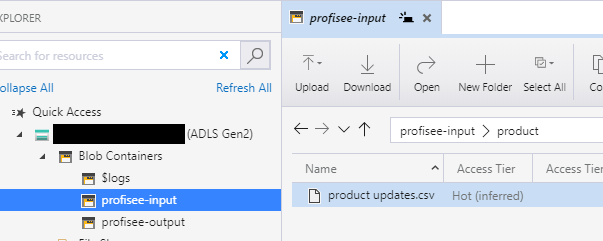
## Publish

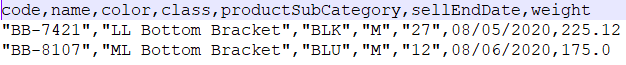
Once you are finished with all your changes, click Publish All.



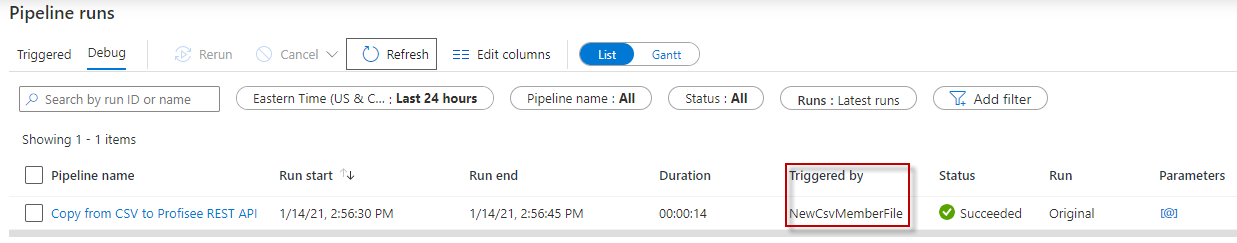
## Triggering

1. If you added an event trigger, upload a file to an entity folder within your input container. The file must contain the members in CSV format. An example is shown below.





1. Select **Monitor** tab in the left navigation panel and wait for about 20 seconds. Click **Refresh** to get the updated run status.
2. When the pipeline run completes successfully, you would see results like the following example. Notice the pipeline was triggered by the event trigger.



## Next steps

* [Introduction to Azure Data Factory](https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/data-factory/introduction.md)
* [Create event-based triggers in Azure Data Factory](https://docs.microsoft.com/en-us/azure/data-factory/how-to-create-event-trigger)