Informatica

Informatica® Cloud Data Integration

File List Connector

Informatica Cloud Data Integration File List Connector
October 2020

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Preface

Use *File List Connector* to learn how to read from fixed-width file or write to fixed-width file by using Cloud Data Integration. Use File List Connector to read multiple delimited files. Learn to create a File List connection and run synchronization tasks in Cloud Data Integration.

Informatica Resources

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Informatica Documentation

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If you have questions, comments, or ideas about the product documentation, contact the Informatica Documentation team at infa_documentation@informatica.com.

Informatica Intelligent Cloud Services web site

You can access the Informatica Intelligent Cloud Services web site at http://www.informatica.com/cloud. This site contains information about Informatica Cloud integration services.

Informatica Intelligent Cloud Services Communities

Use the Informatica Intelligent Cloud Services Community to discuss and resolve technical issues. You can also find technical tips, documentation updates, and answers to frequently asked questions.

Access the Informatica Intelligent Cloud Services Community at:

https://network.informatica.com/community/informatica-network/products/cloud-integration

Developers can learn more and share tips at the Cloud Developer community:

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Informatica Intelligent Cloud Services Marketplace

Visit the Informatica Marketplace to try and buy Data Integration Connectors, templates, and mapplets:

https://marketplace.informatica.com/

Data Integration connector documentation

You can access documentation for Data Integration Connectors at the Documentation Portal. To explore the Documentation Portal, visit https://docs.informatica.com.

Informatica Knowledge Base

Use the Informatica Knowledge Base to find product resources such as how-to articles, best practices, video tutorials, and answers to frequently asked questions.

To search the Knowledge Base, visit https://search.informatica.com. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at KB_Feedback@informatica.com.

Informatica Intelligent Cloud Services Trust Center

The Informatica Intelligent Cloud Services Trust Center provides information about Informatica security policies and real-time system availability.

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The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at https://www.informatica.com/services-and-training/support-services/contact-us.html.

CHAPTER 1

Introduction to File List Connector

This chapter includes the following topics:

- File List Connector Overview, 6
- Enabling File List Connector, 6

File List Connector Overview

You can use File List Connector to merge delimited and fixed-width files. Use File List Connector as a target to create a fixed-width file.

Use File List Connector to read data from fixed-width file or write to fixed-width file. You can also use File List Connector to read multiple delimited files.

Enabling File List Connector

Contact Informatica Global Customer Support to enable File List Connector.

It takes 15 minutes for the File List Connector to download to Secure Agent after enabling.

CHAPTER 2

Schema and Custom Header File

This chapter includes the following topics:

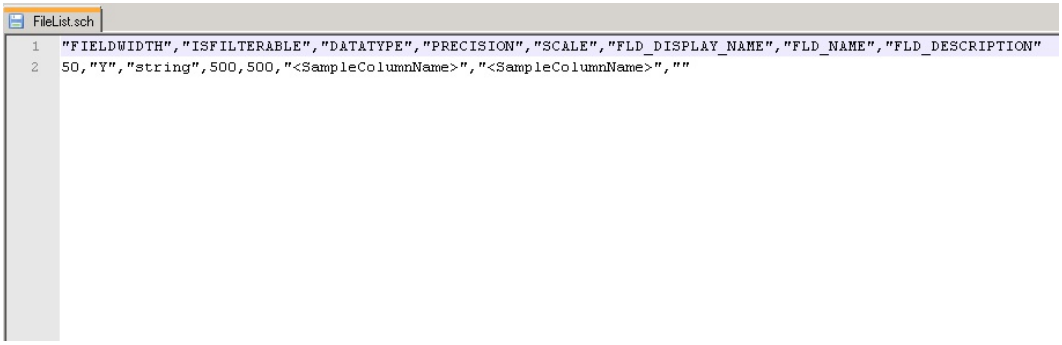
- Schema File, 7
- Custom Header File, 9

Schema File

You can define the schema for a File List connection that you want to import as a source or target object in Data Integration. You can use schema file to optimize the functionality of File List Connector.

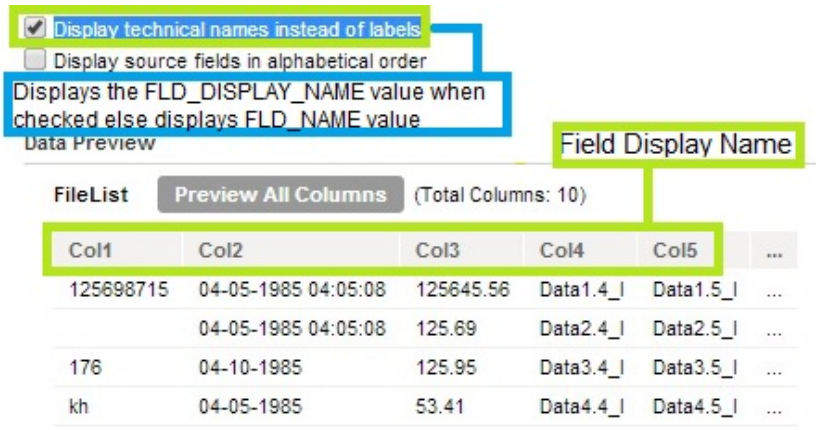
File List Connector uses the schema file to determine the start and end of a column or data types in fixed-width and delimited files.

The following image shows a sample schema file present in the `<Secure Agent installation directory>\apps\Data_Integration_Server\ext\deploy_to_main\tomcat\plugins\<plugin ID>` directory:



The following table describes the properties of the schema file:

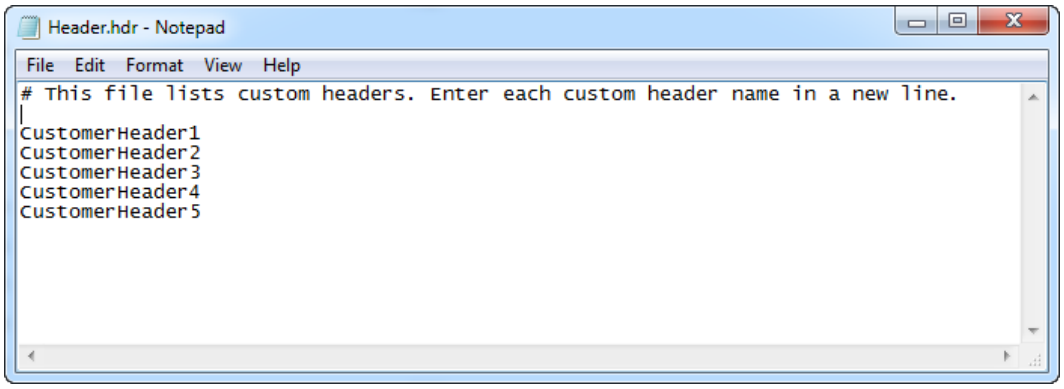
Property	Description
FILEWIDTH	Enter the required width to generate a fixed-width file.
ISFILTERABLE	Enter Y or N accordingly to the requirement.

Property	Description
DATATYPE	Enter required data type. File List Connector supports the following data types: - Integer - Decimal - String - Boolean - Datetime - Date - Double - Float - Binary - Short - Long - Bigint
PRECISION	Enter the required precision value.
SCALE	Enter the required scale value.
FLD_DISPLAY_NAME	Enter the required field display name. This name appears when you select the Display technical names instead of labels option in data preview. The following image shows an example of field display name:  In this figure Col1 and Col2 are the FLD_DISPLAY_NAME values.
FLD_NAME	Enter the required field name. The name appears when you do not select the Display technical names instead of labels option in data preview.
FLD_DESCRIPTION	Schema file do not support FLD_DESCRIPTION field.

Custom Header File

If you do not specify the schema file path, File List Connector uses the header details in the custom header file.

The following image shows a sample of custom header file present in the `<Secure Agent installation directory>\apps\Data_Integration_Server\ext\deploy_to_main\tomcat\plugins\<plugin ID>` directory:



CHAPTER 3

File List Connections

This chapter includes the following topics:

- Creating a File List Connection, 10
- File List connection properties, 12
- Default Connection Mode, 13
- Custom Connection Mode, 13

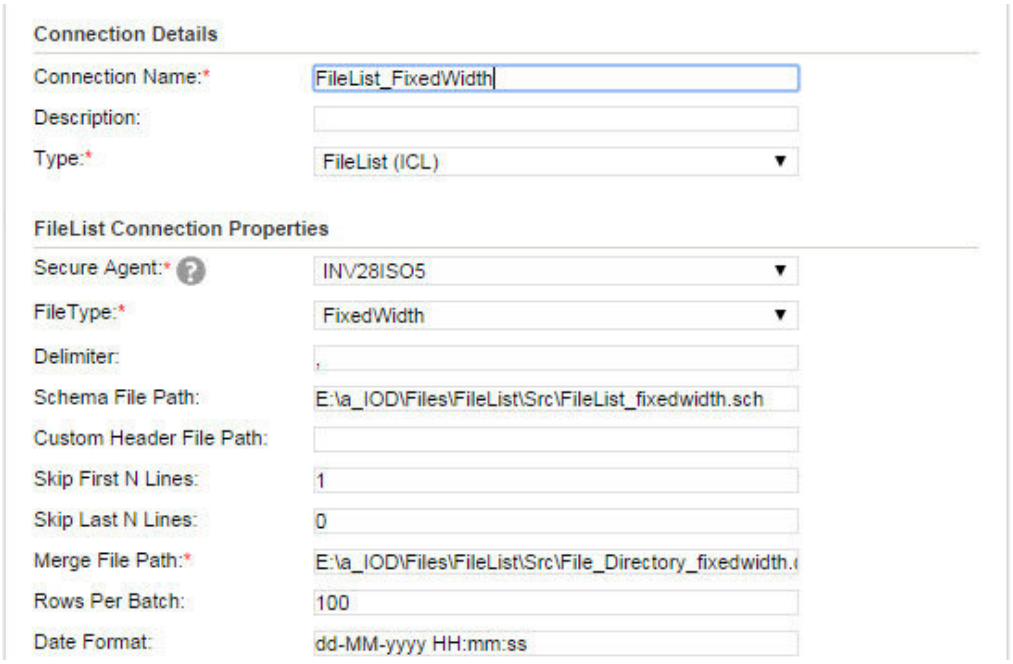
Creating a File List Connection

To use File List Connector in a synchronization task, you must first create a connection in Data Integration.

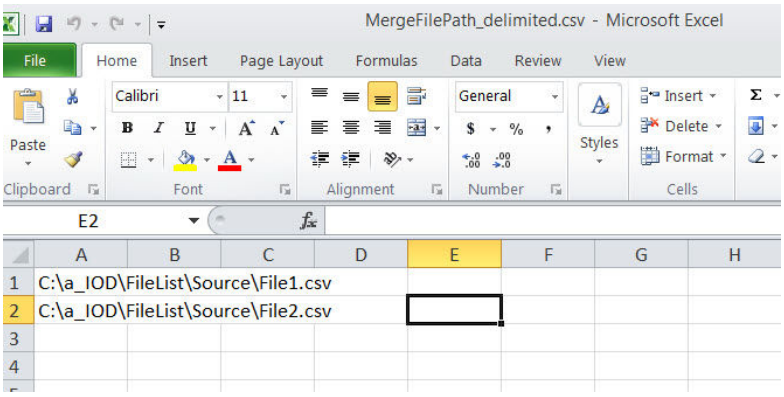
You can configure a connection on the Connections page or in a wizard as you configure a task.

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

   The **New Connection** page appears.
   The following image shows the Connection page:



2. Specify the following details:

Connection Property	Description
Connection Name	Enter a unique name for the connection.
Description	Provide a description for the connection.
Type	Select File List from the list.
Secure Agent	Select the Secure Agent from the list.
File Type	Select the file format from the list. The connection supports fixed-width and delimiter file types.
Delimiter	Select the delimiter. The default delimiter is Comma.
Schema File Path	Specify the schema file path. A sample schema file is present in Informatica Secure Agent folder. The path is `<Secure Agent installation directory>\apps\Data_Integration_Server\ext\deploy_to_main\tomcat\plugins\<plugin ID>`
Custom Header File Path	Specify the header file path. You can find `header.hdr` file in Informatica Secure Agent folder. The path is `<Secure Agent installation directory>\apps\Data_Integration_Server\ext\deploy_to_main\tomcat\plugins\<plugin ID>`
Skip First N lines	Specify the number of rows you want to skip while merging the files. This helps you to skip the rows from the beginning of the file.
Skip Last N lines	Specify the number of rows you want to skip while merging the files. This helps you to skip the rows from the end of the file.
Merge File Path	It is the file which contains details of all the multiple files you need to merge using the File List Connector. Provide the path where this file resides. The following image shows a sample of merge file path where file1 and file 2 are the two files to be merged: 

Connection Property	Description
Rows Per Batch	Mention the required batch size to optimize the performance. The default value is 100.
Date Format	Mention the Date format. The default date format is dd-MM-yyyy HH:mm:ss.

3. Click **Save** to save the connection.

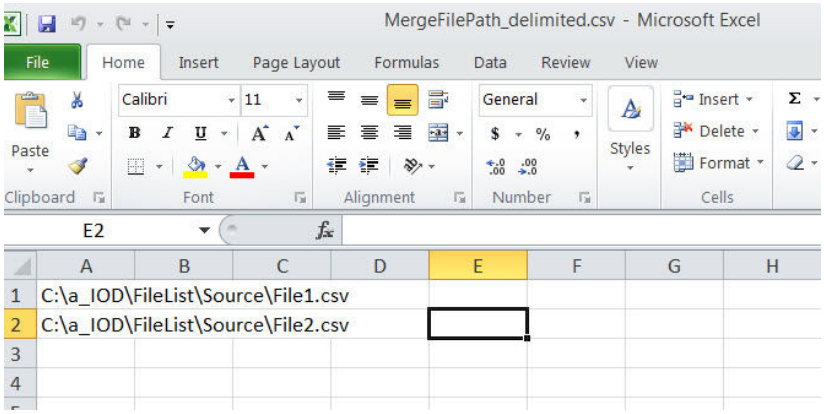
   You should test the connection before you save the connection details. You can click **Test Connection** to verify if the connection is successful.

File List connection properties

When you set up a File List connection, you must configure the connection properties.

The following table describes the File List connection properties:

Connection property	Description
Connection Name	Enter a unique name for the connection.
Description	Provide a description for the connection.
Type	Select File List from the list.
Secure Agent	Select the Secure Agent from the list.
File Type	Select the file format from the list. The connection supports fixed-width and delimiter file types.
Delimiter	Select the delimiter. The default delimiter is Comma.
Schema File Path	Specify the schema file path. A sample schema file is present in Informatica Secure Agent folder. The path is `<Secure Agent installation directory>\apps \Data_Integration_Server\ext\deploy_to_main\tomcat\plugins\<plugin ID>`
Custom Header File Path	Specify the header file path. You can find `header.hdr` file in Informatica Secure Agent folder. The path is `<Secure Agent installation directory>\apps \Data_Integration_Server\ext\deploy_to_main\tomcat\plugins\<plugin ID>`
Skip First N lines	Specify the number of rows you want to skip while merging the files. This helps you to skip the rows from the beginning of the file.
Skip Last N lines	Specify the number of rows you want to skip while merging the files. This helps you to skip the rows from the end of the file.

Connection property	Description
Merge File Path	It is the file which contains details of all the multiple files you need to merge using the File List Connector. Provide the path where this file resides. The following image shows a sample of merge file path where file1 and file 2 are the two files to be merged: 
Rows Per Batch	Mention the required batch size to optimize the performance. The default value is 100.
Date Format	Mention the Date format. The default date format is dd-MM-yyyy HH:mm:ss.

Default Connection Mode

You can set up a connection by specify the required connection parameter to use the connection in default mode.

In the default mode, File List Connector considers all default values for the optional connection parameters.

Custom Connection Mode

You can specify values to the optional parameters of the connection in custom mode to refine the merging of the files.

You can also assign values to these connection parameters to optimize the performance.

CHAPTER 4

Processing Fixed-Width File

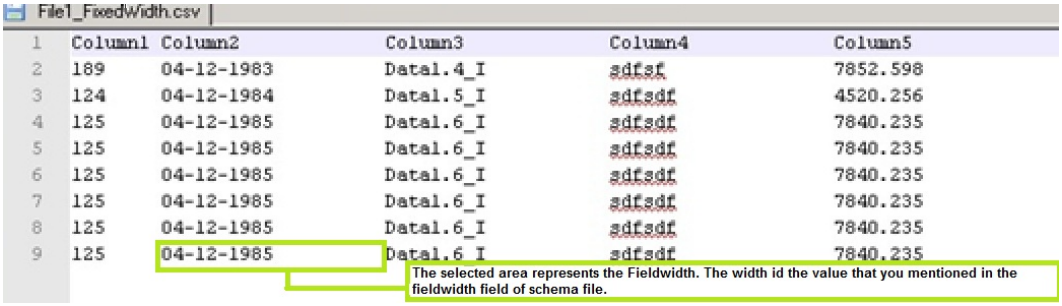
This chapter includes the following topic:

- Processing Fixed-Width File, 14

Processing Fixed-Width File

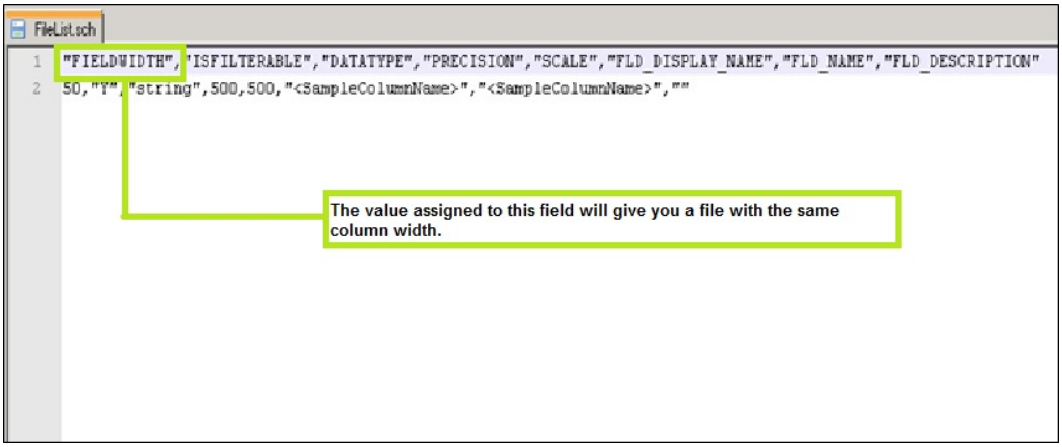
You can parse fixed-width column using File List Connector.

The following image shows a sample fixed-width file:



You must specify the value in the file width column in the schema file to generate the file with specified column width.

The following image shows how you can assign a value to the "FILEWIDTH" to get a file with the same column width:



CHAPTER 5

Creating a Synchronization Task

This chapter includes the following topics:

- Creating a Synchronization Task for Fixed Width File Type (Source), 15
- Creating Synchronization Task for Delimited File Type (Source), 18
- Creating a Synchronization Task for Fixed-Width File Type (Target), 20

Creating a Synchronization Task for Fixed Width File Type (Source)

You need to create a File List connection before you create the synchronization task.

Perform the following tasks to create a synchronization task:

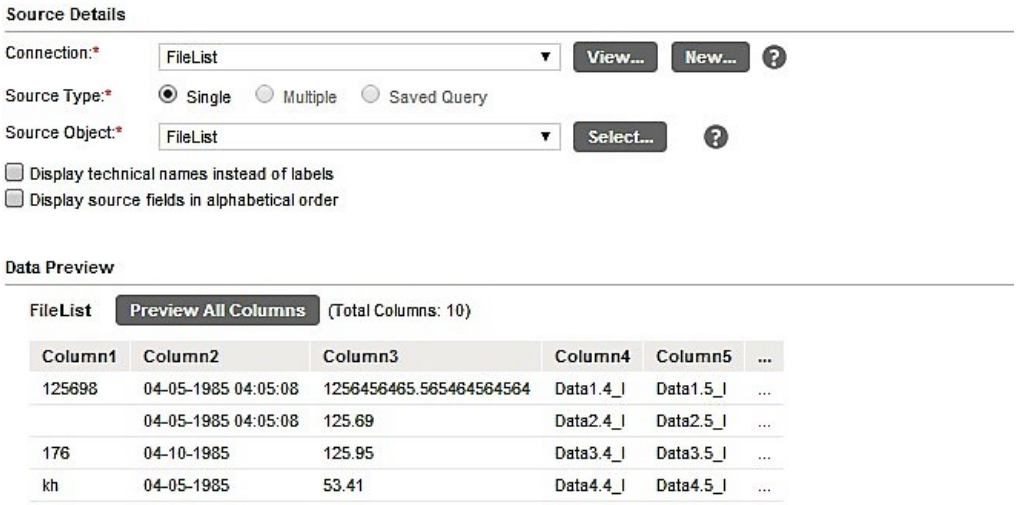
1. In Data Integration, click **New** > **Tasks**.
2. Select **Synchronization Tasks**, and click **Create**.

   The **Definition** tab appears.
   The following image shows the Definition page:



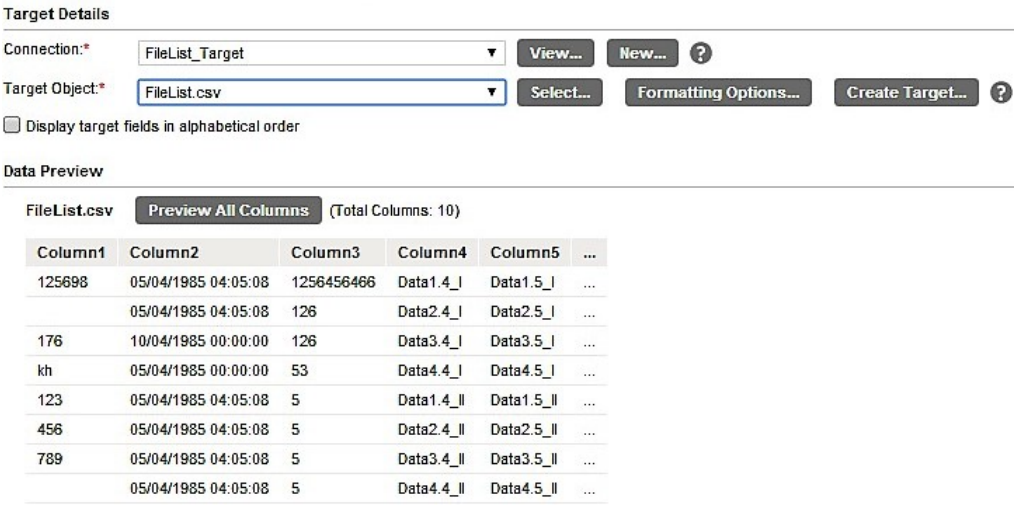
3. Specify the **Task Name** for the required task.
4. Provide a **Description** for the required task.
5. Select **Insert** as task operation.

6. Click **Next**. The **Source** tab appears. The following image shows the Source page:



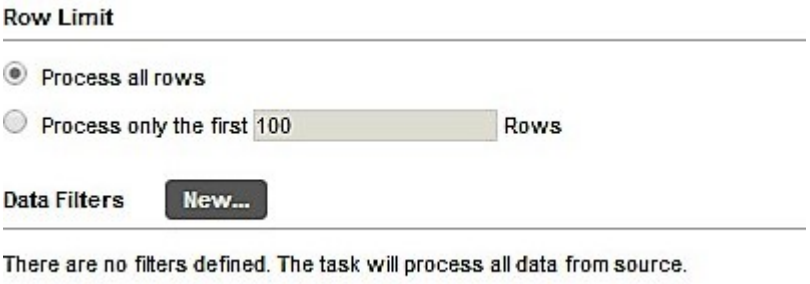
7. Select the **File List connection** as Connection.
8. Select **Single** as **Source Type**.
9. Select **Source Object** for the task.
10. Click **Next**.

    The **Target** tab appears.
    The following image shows the Target page:



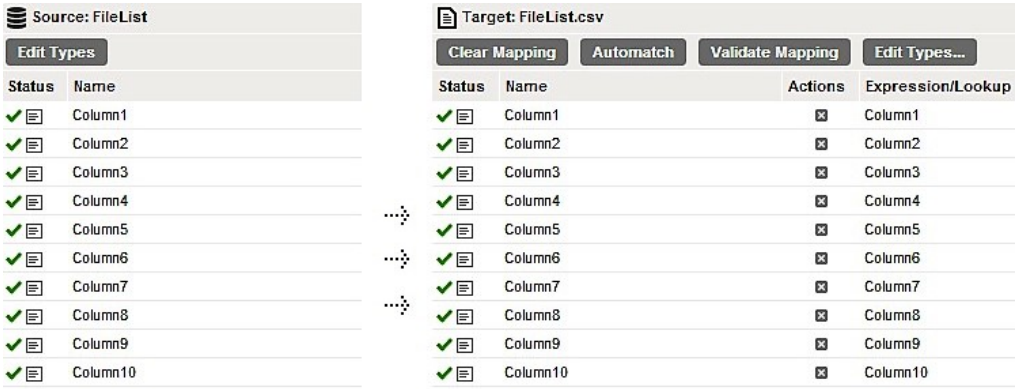
11. Select the target connection and **Target Object** required for the task.
12. Click **Next.** In **Data Filters** tab by default, **Process All Rows** is selected.

The following image shows the Data Filters page:



13. Click **Next**. In **Field Mapping** tab, map source fields to target fields accordingly.

    The following image shows the Field Mapping page:



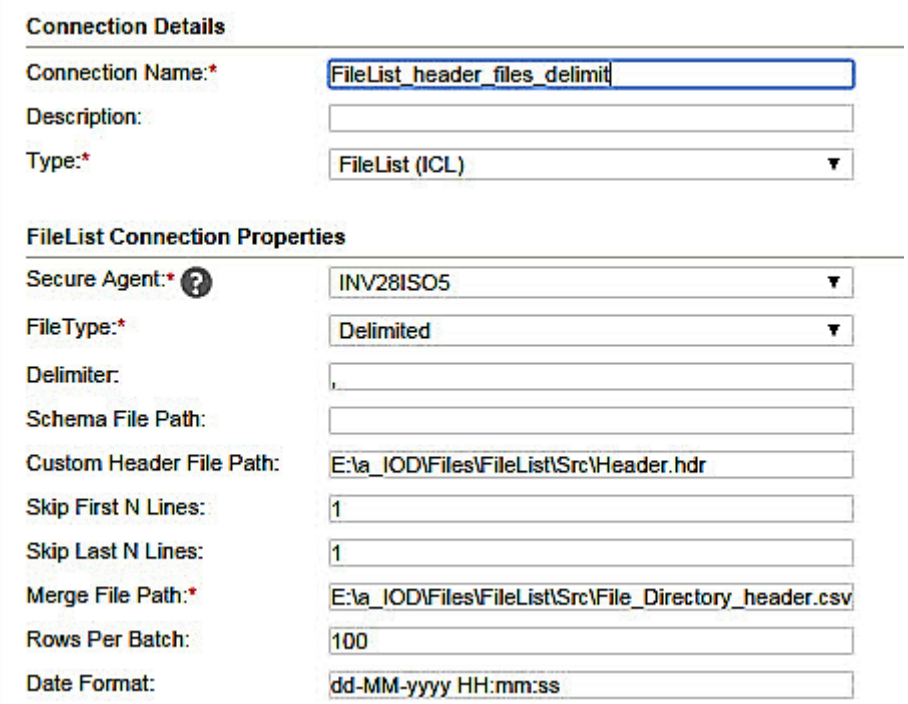
14. Click **Next**. The **Schedule** tab appears where you can schedule the task for each requirement and save.
15. Click **Save** and then **Finish**.
16. From the **Explore** page, select the task, and click **Actions** > **Run**.

    In Monitor, you can monitor the status of the logs after you run the task.

Creating Synchronization Task for Delimited File Type (Source)

You need to create a File List connection before you create the synchronization task.

The following image shows the Edit Connection page:



Note: Select delimited file type to create a connection for delimited file either in custom file path or schema file path. The Secure Agent uses the merge file path if you do not mention any file path.

Perform the following the steps to create a synchronization task for delimited file type:

1. In Data Integration, click **New** > **Tasks**.
2. Select **Synchronization Tasks**, and click **Create**.

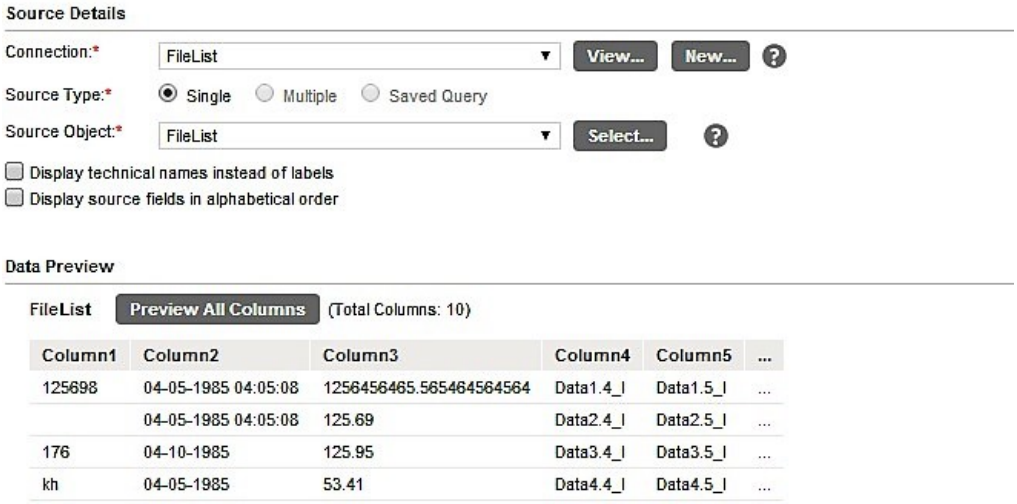
   The **Definition** tab appears.
   The following image shows the Definition page:



3. Specify the **Task Name** for the required task.
4. Provide a **Description** for the required task.
5. Select the **Task Operation** Insert.

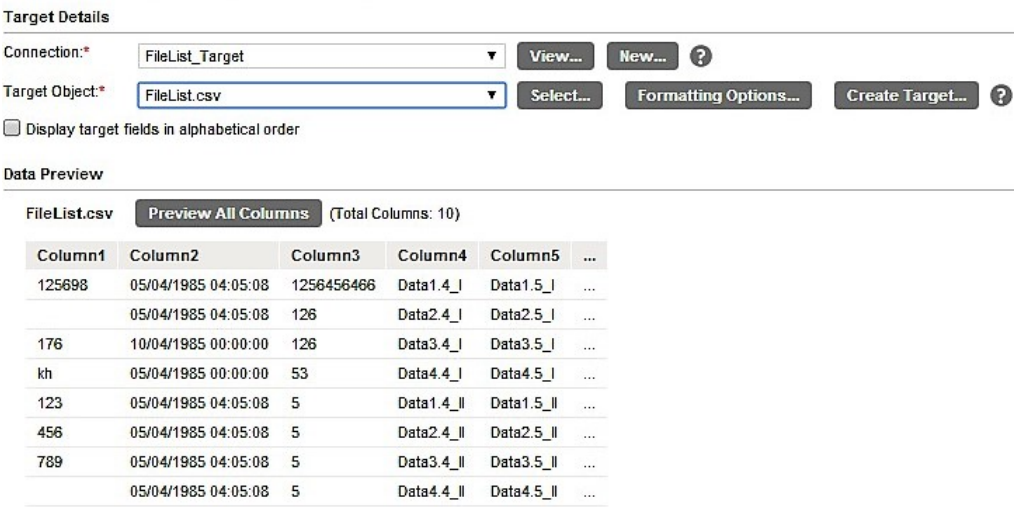
6. Click **Next**.

   The **Source** tab appears.
   The following image shows the Source page:



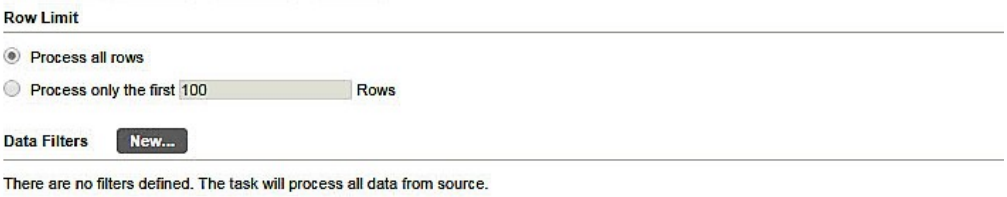
7. Select the source **Connection** for the task.
8. Select **Single** as **Source Type**.
9. Select **Source Object** for the task.
10. Click **Next**.

    The **Target** tab appears.
    The following image shows the Target page:



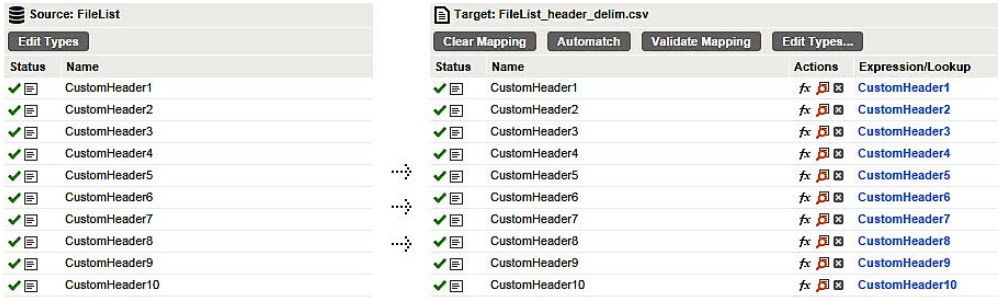
11. Select the target connection and the **Target Object** required for the task.
12. Click **Next**. In **Data Filters** tab by default, **Process All Rows** is chosen.

The following image shows the Data Filters page:



13. Click **Next**. In **Field Mapping** tab, map source fields to target fields accordingly.

    The following image shows the Field Mapping page:



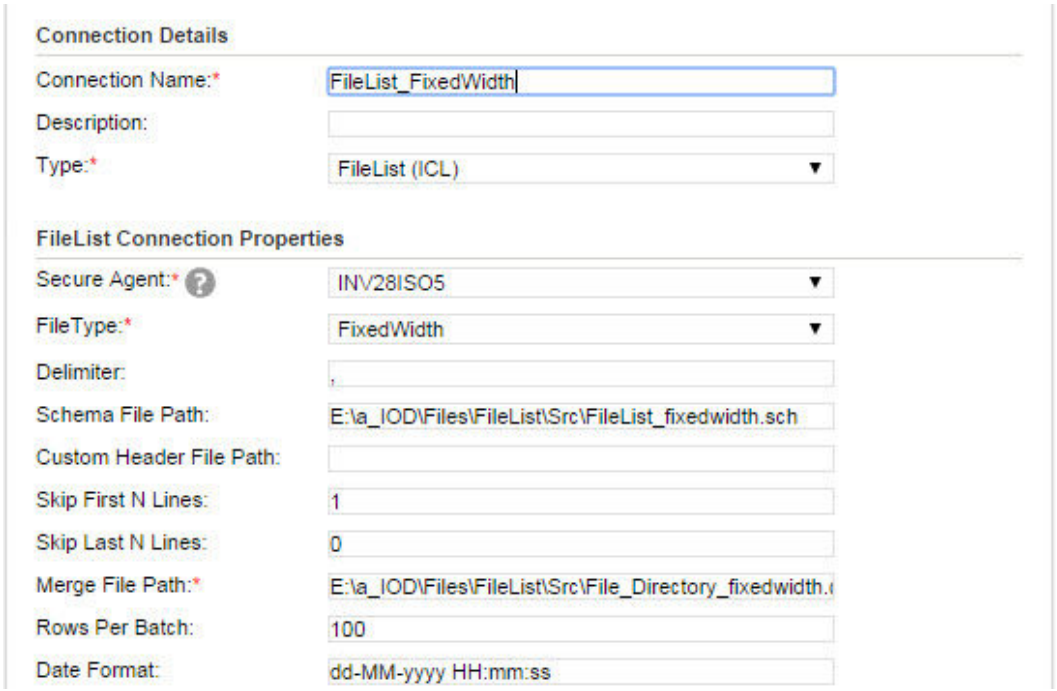
14. Click **Next**. The **Schedule** tab appears where you can schedule the task for each requirement and save.
15. Click **Save** and then **Finish**.
16. From the **Explore** page, select the task, and click **Actions** > **Run**.

    In Monitor, you can monitor the status of the logs after you run the task.

Creating a Synchronization Task for Fixed-Width File Type (Target)

You need to create a File List connection before you create the synchronization task.

The following image shows the Edit Connection page:



The following table describes target connection properties:

Connection Property	Description
Connection Name	Enter a unique name for the connection.
Description	Provide a relevant description for the connection.
Type	Select **File List** from the list.
Secure Agent	Select the appropriate secure agent from the list
File Type	Select **Fixedwidth** from the list**.**
Delimiter	Not Applicable
Schema file Path	Enter the Schema File Path.
Custom Header file path	Do not enter value to this field, the details of schema file will is taken for fixed-width file type.
Skip First N lines	Enter the number of rows you want to skip while merging the files. The Secure Agent skips rows from the start of the file when it reads data from the files.
Skip Last N lines	Enter the number of rows you want to skip while merging the files. The Secure Agent skips rows from the end of the file.
Merge File Path	The file that contents details of the source files that you want to merge.

Connection Property	Description
Rows for each Batch	Enter the required batch size. The Secure Agent optimizes the performance. The default value is 100.
Date Format	Enter the Date format. The default date format is dd-MM-yyyy HH:mm:ss.

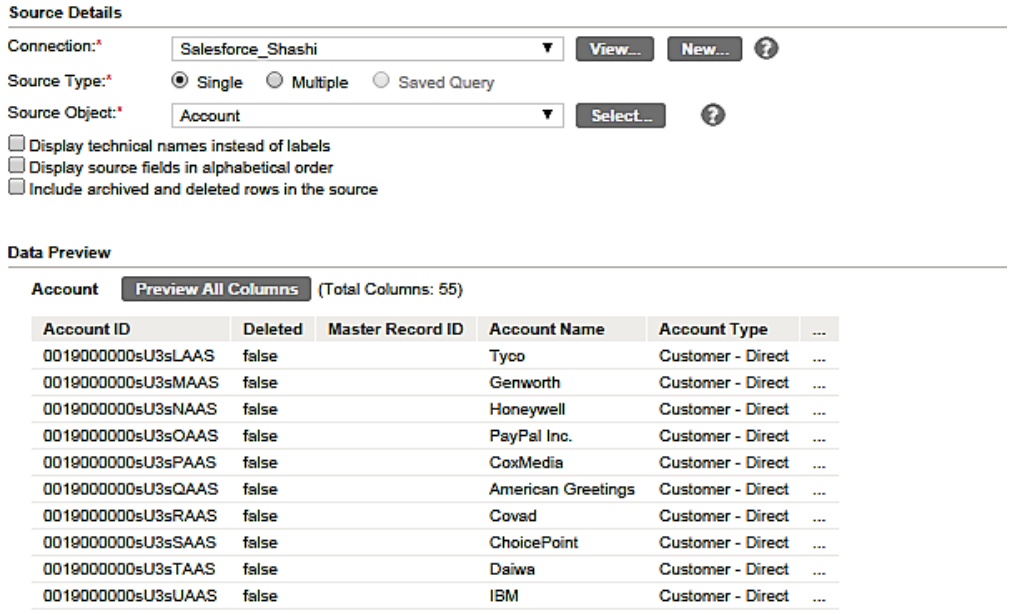
1. In Data Integration, click **New** > **Tasks**.
2. Select **Synchronization Tasks**, and click **Create**.

   The **Definition** tab appears.
   The following image shows the Definition page:



3. Specify the **Task Name** for the required task.
4. Provide a **Description** for the required task.
5. Select **Insert** as the task operation.
6. Click **Next**.

   The **Source** tab appears.
   The following image shows the Source page:



7. Select the **File List connection** as the **Connection**.
8. Select **Single** as the **Source Type**.

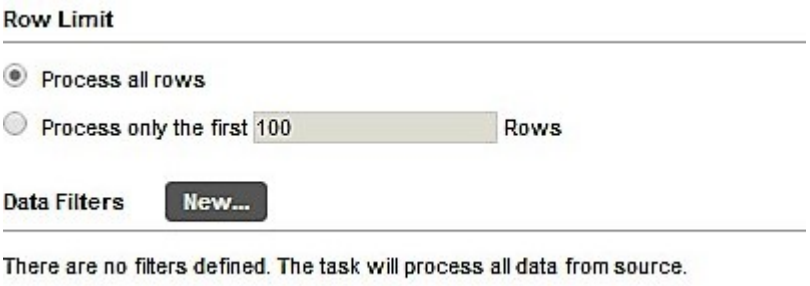
9. Select **Source Object** for the task.
10. Click **Next**.

    The **Target** tab appears.
    The following image shows the Target page:



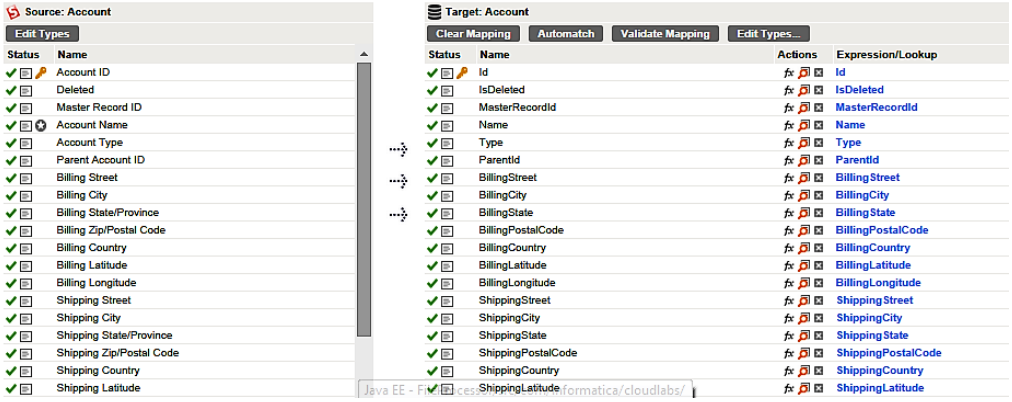
11. Select the target connection and the target object required for the task.
12. Click **Next**. In **Data Filters** tab by default, **Process All Rows** is chosen.

    The following image shows the Data Filters page:



13. Click **Next**. In **Field Mapping** tab, map source fields to target fields accordingly.

    The following image shows the Field Mapping page:



14. Click **Next**. The **Schedule** tab appears where you can schedule the task for each requirement and save.
15. Click **Save** and then **Finish**.
16. From the **Explore** page, select the task, and click **Actions** > **Run**.

    In Monitor, you can monitor the status of the logs after you run the task.

CHAPTER 6

Troubleshooting

This chapter includes the following topics:

- Troubleshooting, 24
- Troubleshooting Synchronization Task, 24
- Increasing the Secure Agent Memory, 24

Troubleshooting

The Secure Agent generates a log file to capture the messages thrown during task configuration at the following location:

```
<Secure Agent installation directory>\apps\Data_Integration_Server\logs
```

Troubleshooting Synchronization Task

When you create a synchronization task with a configuration not valid, "NULL" error message appears.

Session Log captures and saves the messages of a failed synchronization task. You require special privileges to run the application in debug mode.

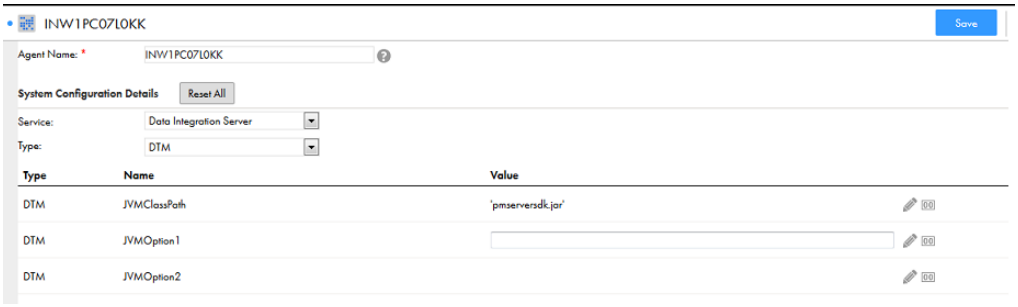
The location of the log file is as follows: `<Secure Agent installation directory>\apps\Data_Integration_Server\logs`

Increasing the Secure Agent Memory

To increase performance and avoid runtime environment memory issues, perform the following steps:

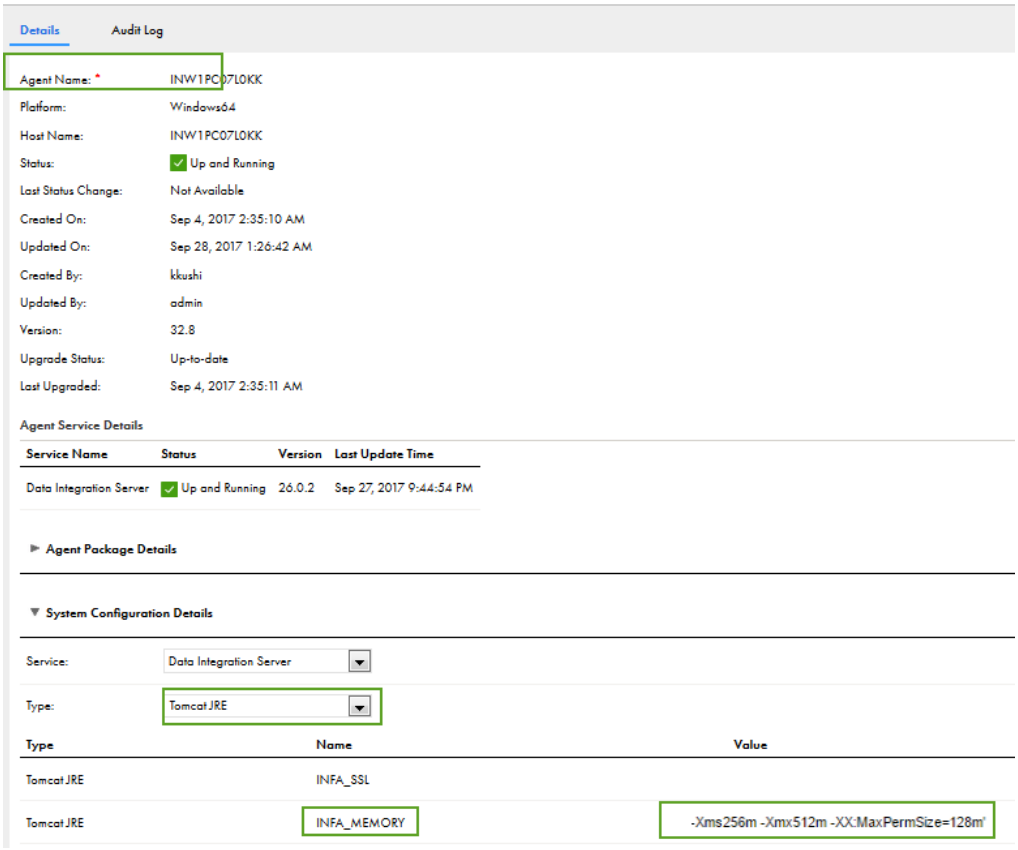
1. In Administrator, select **Runtime Environments**.
2. Select the Secure Agent for which you want to increase memory from the list of available Secure Agents.
3. In the upper-right corner, click **Edit**.
4. In the **System Configuration Details** section, select the **Type** as **DTM** for the Data Integration Service.
5. Edit **JVMOption1** as **-Xms4056m** and **JVMOption2** as **-Xmx4056m**.

The following image shows the **Details** page:



6. In the **System Configuration Details** section, select the **Type** as **TomCatJRE**
7. Edit **INFA_memory** as **-Xms256m -Xmx512m**.

   The following image shows the **Agent Details** page:



   Note: The minimum and maximum values for the Java heap size are given as an example. Specify the size according to your requirements.

8. Restart the Secure Agent.

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