Informatica

Informatica® Cloud Data Integration

CallidusCloud File Processor Connector

Informatica Cloud Data Integration CallidusCloud File Processor Connector
May 2023

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Preface

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

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CHAPTER 1

Introduction to CallidusCloud File Processor Connector

You can use CallidusCloud File Processor Connector to read data from or write data to files in SFTP server. You can also read and write compressed files.

You can also use the connector to access folders in the SFTP server to perform certain actions on the files in the SFTP server.

You can use a CallidusCloud File Processor object as a source or a target in synchronization tasks, mapping tasks, and mappings.

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

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.

CallidusCloud File Processor Connector assets

Create assets to integrate data using CallidusCloud File Processor Connector.

You can perform insert operations on a CallidusCloud File Processor target. You cannot perform update, upsert, and delete operations on a CallidusCloud File Processor target.

CallidusCloud File Processor Connector supports files only in CSV format.

When you use CallidusCloud File Processor Connector, you can include the following Data Integration assets:

- Mapping
- Mapping task
- Synchronization task

For more information about configuring assets and transformations, see *Mappings*, *Transformations*, and *Tasks* in the Data Integration documentation.

CallidusCloud File Processor Compression Formats

You can use CallidusCloud File Processor Connector to read or write compressed files.

CallidusCloud File Processor Connector supports the GNU zip compression format that uses the DEFLATE algorithm to compress and decompress binary files.

SFTP Folder Structure

The SFTP server contains the following predefined folders in the remote directory that the Secure Agent uses to perform certain actions:

Folder Name	Description
inbound	All the files associated that is used as a source object in a task will be read from the inbound folder of the SFTP server.
outbound	All the files associated that is used as a target object in a task will be created in the outbound folder of the SFTP server.
processed	After a file is read from the inbound folder, the Secure Agent moves the file into this folder. The file is renamed along with a timestamp. The files in the processed folder allows the user to track the previously processed files. **Note:** The file will be moved to the processed folder whether a task succeeds or fails to read from the SFTP server.
template	The SFTP server uses a template file to maintain a file structure. When you select a source or target object in a task, the Secure Agent searches for template files from the template folder. Once the file structure is defined based on the selected file, Secure Agent will read or write into the inbound or outbound folder, respectively. **Note:** All template files must be flat files.

Note: You must specify SFTP folder names in lowercase letters.

CHAPTER 2

CallidusCloud File Processor Connections

Create an CallidusCloud File Processor connection to access CallidusCloud File Processor 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 CallidusCloud File Processor connections in synchronization tasks, mapping tasks, and mappings.

CallidusCloud File Processor connection properties

When you create a CallidusCloud File Processor connection, you must configure the connection properties.

The following table describes the CallidusCloud File Processor connection properties:

Property	Description
Runtime Environment	Name of the runtime environment where you want to run the tasks.
UserName	The user name to use for connecting to the SFTP server.
Password	The password to use for connecting to the SFTP server.
SFTP Key	The private key to use for connecting to the SFTP server. You must specify the SFTP key in a single line.
SFTP Key Pass Phrase	The pass phrase to connect to the SFTP server. You must specify the SFTP Key Pass Phrase in a single line
Host	The host name of the SFTP server.
Port	The port number to use for connecting to the server. If left blank, the default port number is 22.
Remote Directory	The directory on the SFTP host accessible to the Secure Agent. **Note:** Add / at the end of the specified path.

Property	Description
Charset	Specify the character set to use for encoding data. CallidusCloud File Processor Connector supports the following character sets: - Big5 - Big5-HKSCS - CESU-8 - EUC-JP - EUC-KR - GB18030 - GB2312 - GBK - IBM00858 - IBM01140 - IBM01141 - IBM01142 - IBM01143 - IBM01144 - IBM01145 - UTF-8 The default value is UTF-8, which works well for all character data.
Delimiter	Delimiter used in the file to separate columns of data. Select the delimiter. The default delimiter is Comma.
Compression Mode	The compression format for binary files. Select one of the following options: - None - gzip Default is None.
Encryption Mode	The type of encryption that the SFTP server uses to encrypt the data. Select one of the following options: - None - GPG Default is None.
Encryption Public Key	Required when you select **GPG** as the **Encryption Mode**. You must specify the public key in a single line to encrypt data.
Encryption Private Key	Required when you select **GPG** as the **Encryption Mode**. You must specify the private key in a single line to decrypt data.
Encryption Pass Phrase	Required when you select **GPG** as the **Encryption Mode**. You must specify the pass phrase in a single line to encrypt data.

For more information about converting multiline key file or pass phrase to single line key string, see the CallidusCloud File Processor documentation.

CHAPTER 3

Synchronization Tasks with CallidusCloud File Processor 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.

CallidusCloud File Processor Sources in Synchronization Tasks

You can use a single object in a synchronization task.

You can configure the CallidusCloud File Processor source properties on the **Source** page of the Synchronization Task wizard.

The following table describes the CallidusCloud File Processor source properties:

Property	Description
Connection	Name of the active CallidusCloud File Processor source connection.
Source Type	Type of the CallidusCloud File Processor source objects available. You can read data from a single CallidusCloud File Processor source object. You cannot read data from multiple objects or parameterize the object.
Source Object	Name of the CallidusCloud File Processor source object.
Display technical names instead of labels	This property is not applicable for CallidusCloud File Processor Connector because both the technical names and labels are the same for CallidusCloud.
Display source fields in alphabetical order	Displays source fields in alphabetical order. By default, fields appear in the order returned by the source system.

Advanced Source Properties for CallidusCloud File Processor

You can configure advanced source properties on the **Schedule** page of the Synchronization task wizard.

You can specify a pattern for the CallidusCloud File Processor source file in the **Read Pattern** field under the advanced source properties. Based on pattern, the Secure Agent selects a file from the inbound folder located in the remote directory of the SFTP server and reads from the CallidusCloud File Processor source. You can use an asterisk (*) as a wild card characters in the read pattern.

For example, `Contact_*.Details*.txt`.

CallidusCloud File Processor Targets in the Synchronization Task

You can use a single CallidusCloud File Processor object as a target in a synchronization task.

The following table describes the CallidusCloud File Processor target properties:

Property	Description
Connection	Name of the active CallidusCloud File Processor target connection.
Target Object	Name of the CallidusCloud File Processor target object.
Child Object	This property is not applicable for CallidusCloud File Processor Connector.
Display technical names instead of labels	This property is not applicable for CallidusCloud File Processor Connector because both the technical names and labels are the same for CallidusCloud.
Display target fields in alphabetical order	Displays target fields in alphabetical order. By default, fields appear in the order returned by the target system.

Advanced Target Properties for CallidusCloud File Processor

You can configure advanced target properties on the **Schedule** page of the Synchronization task wizard.

The following table describes the advanced properties that you can configure for a CallidusCloud File Processor target:

Property	Description
Write Pattern	Specify a pattern for the CallidusCloud File Processor target file. Based on the pattern, the Secure Agent creates a file in the outbound folder located in the remote directory of SFTP server and writes to the CallidusCloud File Processor target. You must specify a column name or a date enclosed in square brackets. For example, `Contacts_Detail_[City]_[yyyyMMddHHmm].txt`. **Note:** The values in the column name enclosed in square brackets are populated at run time and the value populated in the column name is used to generate the target file name. Additionally, the timestamp specified is expanded and used to generate the file name. The maximum length of the file name including extension is 150 characters.
Success File Directory	Not applicable for CallidusCloud File Processor Connector.
Error File Directory	Not applicable for CallidusCloud File Processor Connector.

Synchronization example

Configure a synchronization task to read from CallidusCloud File Processor and write to a flat file.

You perform the following synchronization tasks:

Define the synchronization task.

Configure a synchronization task to use the insert operation.

Use a CallidusCloud File Processor source object.

The source for the mapping is a CallidusCloud File Processor connection that contains the *Contacts.csv* file. The CallidusCloud File Processor object is a single source in the synchronization task. Specify *Contacts.csv* as the resource for the source object.

Create a flat file target object.

Select the fields from the source object that you want to insert into the target object. Select a flat file connection and a .csv file for the target object. The synchronization task writes the data to the flat file. You can also use an existing target object.

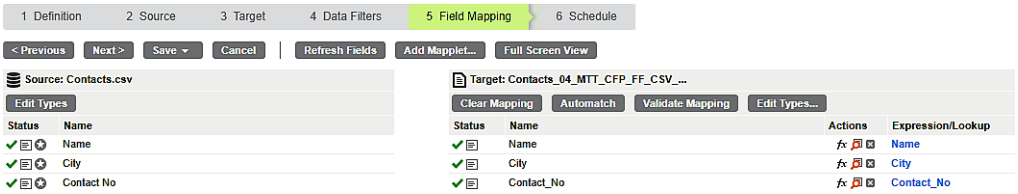
Specify a data filter for the CallidusCloud File Processor source object

Define a data filter for the *Contacts.csv* object.

Configure a field mapping.

Map all the fields in the *Contacts.csv* source file to all the fields in the target object. The synchronization application writes the mapped source data to the flat file.

The following image shows the mapping of the *Contacts.csv* source with the target in the **Field Mapping** tab:



Configure the advanced source properties

You configure the advance source properties on the Schedule page of the Synchronization Task wizard. In the advanced source properties, you choose properties that are specific to CallidusCloud File Processor.

Specify a pattern for the CallidusCloud File Processor source file in the **Read Pattern** field under the advanced source properties.

CHAPTER 4

Mappings and Mapping Tasks with CallidusCloud File Processor

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.

CallidusCloud File Processor Sources in Mappings

To read data from CallidusCloud File Processor, configure a CallidusCloud File Processor object as the Source transformation in a mapping or Mapping task.

Specify the name and description of the CallidusCloud File Processor 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 CallidusCloud File Processor source:

Property	Description
Connection	Name of the CallidusCloud File Processor source connection.
Source Type	Type of the CallidusCloud File Processor source objects available. You can read data from a single CallidusCloud File Processor source object. You cannot write data to multiple objects or parameterize the object.
Object	Name of the CallidusCloud File Processor source file.
Filter	Configure a simple 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.

The following table describes the advanced properties that you can configure for a CallidusCloud File Processor source:

Property	Description
Read Pattern	Specifies a pattern for the CallidusCloud File Processor source file. Based on pattern, the Secure Agent selects a file from the inbound folder located in the remote directory of the SFTP server and reads from the CallidusCloud File Processor source file. You can use an asterisk (*) as a wild card characters in the read pattern. For example, `Contact_*.Details*.txt`.
Tracing Level	Determines the amount of detail that appears in the log for the source. You can choose Terse, Normal, Verbose Initialization, or Verbose Data tracing level. Default is Normal.

CallidusCloud File Processor Targets in Mappings

To write data to a CallidusCloud File Processor target, configure a CallidusCloud File Processor object as the Target transformation in a mapping or Mapping task.

Specify the name and description of CallidusCloud File Processor target. Configure the target and advanced properties for the target object.

The following table describes the target properties that you can configure for a CallidusCloud File Processor target:

Property	Description
Connection	Name of the active CallidusCloud File Processor connection.
Target Type	Type of the CallidusCloud File Processor target objects available. You can write data to a single CallidusCloud File Processor target object. You cannot write data to multiple objects or parameterize the object.
Object	Name of the CallidusCloud File Processor target object.
Operation	Select **Insert**.

The following table describes the advanced properties that you can configure for a CallidusCloud File Processor target:

Property	Description
Write Pattern	Specifies a pattern for the CallidusCloud File Processor target file. Based on the pattern, the Secure Agent creates a file in the outbound folder located in the remote directorys of SFTP server and writes to the CallidusCloud File Processor target. You must specify a column name or a date enclosed in square brackets. For example, `Contacts_Detail_[City]_[yyyyMMddHHmm].txt`. **Note:** The values in the column name enclosed in square brackets are populated at run time and the value populated in the column name is used to generate the target file name. Additionally, the timestamp specified is expanded and used to generate the file name. The maximum length of the file name including extension is 150 characters.
Success File Directory	Not applicable for CallidusCloud File Processor Connector.
Error File Directory	Not applicable for CallidusCloud File Processor Connector.
Forward Rejected Rows	Determines whether the transformation passes rejected rows to the next transformation or drops rejected rows. By default, the Secure Agent forwards rejected rows to the next transformation.

APPENDIX A

Data type reference

Data Integration uses the following data types in mappings, synchronization tasks, and mapping tasks with CallidusCloud File Processor:

CallidusCloud File Processor native data types

CallidusCloud File Processor 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..

CallidusCloud File Processor and Transformation Data Types

The following table describes the data types that Data Integration supports for CallidusCloud File Processor sources and targets:

CallidusCloud File Processor Data Type	Transformation Data Type	Range and Description for the Transformation Data Type
ARRAY	Binary	1 to 104,857,600 bytes
BIGINT	BigInt	-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 Precision 19, scale 0
BINARY	Binary	1 to 104,857,600 bytes
BOOLEAN	Integer	-2,147,483,648 to 2,147,483,647 Precision 10, scale 0
DECIMAL	Decimal	Precision 1 to 28, scale 0 to 28
DOUBLE	Double	Precision 15, scale 0

CallidusCloud File Processor Data Type	Transformation Data Type	Range and Description for the Transformation Data Type
INTEGER	Integer	- 2,147,483,648 to 2,147,483,647
LONG	BigInt	9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 Precision 19, scale 0
OBJECT	String	1 to 104,857,600 characters
STRING	String	1 to 104,857,600 characters
TIMESTAMP	Date	Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)

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