



Informatica® Cloud Data Integration

# Advanced FTPS V2 Connector

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Publication Date: 2022-06-26

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# Preface

Use the Advanced FTPS V2 Connector to learn how to read files from and to write files to an FTPS server. Learn how to create a connection and how to use connections in mass ingestion tasks and in Cloud B2B Gateway.

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# CHAPTER 1

## Introduction to Advanced FTPS V2 Connector

This chapter includes the following topics:

- [Advanced FTPS V2 Connector overview, 6](#)
- [Advanced FTPS V2 supported task types and object types, 7](#)

### Advanced FTPS V2 Connector overview

Advanced FTPS V2 Connector enables you to securely transfer to and from FTPS servers.

When you transfer files to and from an FTPS server, you can specify the Secure Agent. When you use FTPS objects in file ingestion tasks, you configure properties specific to FTPS.

Create an Advanced FTPS V2 connection and use the connection as a source or as a target in file ingestion tasks.

When you create an Advanced FTPS V2 connection, you specify the runtime environment that contains the Secure Agent. Create an Advanced FTPS V2 connection to specify the location of FTPS sources or targets that you want to include in a file ingestion task.

When you run a file ingestion task, the Secure Agent transfers files to or from an FTPS server, based on the task and the Advanced FTPS V2 connection configuration. The Secure Agent connects and reads files from and writes files to the FTPS server through a TCP/IP network.

When you use an Advanced FTPS V2 source in a file ingestion task, you can schedule the task to receive notifications from a file listener.

#### Example

You work for an organization that stores audit trail logs in an on-premises FTPS server. You need to move data from the on-premises FTPS site to an affordable cloud-based environment. Create a file ingestion task to read all the audit trail logs from the FTPS server and write them to an Amazon S3 target.

# Advanced FTPS V2 supported task types and object types

The following table lists the tasks and object types that the Advanced FTPS V2 Connector supports:

Task Type	Source	Target
Mass Ingestion	Yes	Yes

## CHAPTER 2

# Advanced FTPS V2 Connections

This chapter includes the following topics:

- [Advanced FTPS V2 connections overview, 8](#)
- [Advanced FTPS V2 connection properties, 8](#)

## Advanced FTPS V2 connections overview

An Advanced FTPS V2 connection enables you to read data from and write data to FTPS servers. You can use an Advanced FTPS V2 connection to specify sources and targets in file ingestion tasks.

Create an Advanced FTPS V2 connection on the **Connections** page and associate it with a file ingestion task. Define the source properties to read from an FTPS server or define the target properties to write to an FTPS server.

## Advanced FTPS V2 connection properties

When you set up an Advanced FTPS V2 connection, you must configure the connection properties.

The following table describes the Advanced FTPS V2 connection properties:

Connection property	Description
Connection Name	The name of the connection. The name is not case sensitive and must be unique within the domain. You can change this property after you create the connection. The name cannot exceed 128 characters, contain spaces, or contain the following special characters:~`!\$%^&*()-+={[}] \:;'"'<,>.?/
Description	Optional. The description of the connection. The description cannot exceed 4,000 characters.
Type	Select the <b>Advanced FTPS V2</b> connection type.
Runtime Environment	The name of the runtime environment that contains the Secure Agent that you want to run the tasks.
Host	The host name or IP address of the server.



Connection property	Description
Port	The port number to use for connecting to the server. If left blank, the default port number is 21.
Username	User name to connect to the FTPS server.
Password	Password to connect to the FTPS server.
Folder Path	The directory to use after connecting to the server.
Use passive mode	<p>Indicates whether the connection uses <b>Passive</b> or <b>Active</b> mode. Specify <b>Yes</b> to use <b>Passive</b> mode. Specify <b>No</b> to use <b>Active</b> mode.</p> <p>The default value is <b>Yes</b>.</p> <p>In Passive mode, the server does not need to connect back to a port on the connection client, which is a firewall-friendly mode. If you have problems with connecting to the server, you might want to change the mode to Passive by selecting <b>Yes</b> for this option. In Passive mode, depending on the FTPS server, the connection may require high port range based on the port availability to transfer data.</p> <p>In Active mode, the server attempts to connect back to a port on the connection client to perform the data transfer.</p>
Data Connection Start Port	The starting port number to use for the data connection.
Data Connection End Port	The ending port number to use for the data connection.
Timeout	The number of seconds to wait when attempting to connect to the server. A timeout occurs if the connection cannot be established in the specified amount of time. If left blank, the default value of 120 seconds is used.
Connection Retry Attempts	The number of times to connect to retry the Advanced FTP V2 connection if a connection cannot be established. This setting is used for both the initial connection and any reconnect attempts due to lost connections. If left blank, no retries will be attempted.
Connection Retry Interval	<p>The number of seconds to wait between each connection retry attempt.</p> <p><b>Note:</b> For instance, if you want to retry to connect up to 10 times with a five second delay between retries, then specify <b>10</b> for the <b>Connection Retry Attempts</b> and <b>5</b> for the <b>Connection Retry Interval</b>.</p>
Control Encoding	If left blank, the connection uses the ISO standard ISO-8859-1. If supported by the server, other encodings like UTF-8 can be specified to support international characters.
Trusted Server	Specify whether the FTPS server is a trusted server. The Advanced FTP V2 Connector only supports a trusted server.
List Parser	The list parser to use for the server connection. If the field is empty, the Advanced FTP V2 Connector tries to use the MLSD parser. If the server does not support the MLSD parser, the connector uses the UNIX parser. If you experience problems listing directories, select a different list parser.
Date Format	This date format is applied if the server returns a date that is different from the selected list parser default. If your location requires a different date format (for example, d MMM yyyy), specify the date format in this field. Not all list parsers support the date format setting. List parsers that do not support the date format setting ignores any user specified values.

Connection property	Description
Recent Date Format	Specify the date format to use when parsing the recent last modified date for each file. The recent date format applies in UNIX-based systems and appears on entries less than a year old. If your location requires a specific date format (for example, d MMM HH:mm), specify that pattern in this field. Not all list parsers support the recent date format setting. List parsers that do not support the recent date format setting ignores any user-specified values.
Connection Type	Indicates if the connection type is IMPLICIT_SSL or EXPLICIT_SSL. <ul style="list-style-type: none"> <li>- IMPLICIT_SSL. The connection automatically starts as an SSL connection.</li> <li>- EXPLICIT_SSL. After initial authentication with the FTPS server, the connection is encrypted with SSL or TLS depending on the security protocol you select.</li> </ul> Default is IMPLICIT_SSL.
SecurityProtocol	Indicates whether SSL or TLS is used for EXPLICIT_SSL connections. Default is SSL.
Key Store File	The path and file name of the keystore file. The keystore file contains the certificates to authenticate the FTPS server.
Key Store Password	The password for the keystore file required to access the Trusted Server Certificate Store.
Key Alias	The alias of the individual key.
Key Store Type	Indicates if the type of the keystore is Java KeyStore (JKS) or Public Key Cryptology Standard (PKCS12). Default is JKS.

## CHAPTER 3

# File transfer

You can send files to a remote server or receive files from a remote server, and get the job status through the REST API.

Use the following resources for file transfer:

- `sendfiles`. Use to send files to a remote server.
- `receivefiles`. Use to receive files from a remote server.
- `job`. Use to get the status of the supported file transfer jobs that are initiated using the `sendfiles` or `receivefiles` resource.

When you use these resources, note the following rules:

- Use JSON format.
- Use the following base URL:  
`<serverUrl>/mftsaas/api/v1/<API name>`
- Use the following request header format:  
`<METHOD> <serverUrl>/<URI> HTTP/<HTTP version>`  
`Content-Type: application/json`  
`Accept: application/json`  
`IDS-SESSION-ID: <SessionId>`

**Note:** You must have the appropriate connector license to send and receive files.

## sendfiles

Use the `sendfiles` resource to transfer files to a remote server.

The following connection types use the `sendfiles` resource to transfer files to the remote server:

- AS2
- Advanced FTP V2
- Advanced FTPS V2
- Advanced SFTP V2

Before you construct a `sendfiles` request to transfer files, obtain the identifier of the connection that provides access to the server. To get the connection ID, you can send a GET request using the connection resource.

The connection resource can return information for each of your organization's connections.

## POST Request

To transfer files, include the connection ID in the following URI.

```
mftsaas/api/v1/sendfiles/<connection ID>
```

Include the following information in the request:

Field	Type	Required	Description
targetConnectionType	String	Yes	Connection type. The supported connection types are: <ul style="list-style-type: none"><li>- Advanced FTP V2</li><li>- Advanced FTPS V2</li><li>- Advanced SFTP V2</li><li>- AS2</li></ul>
srcDirectoryPath	String	Yes	Directory path from where files are transferred.
tgtDirectoryPath	String	-	Directory path to where files are transferred. This option is available only for Advanced FTP V2, Advanced FTPS V2, and Advanced SFTP V2 connection types. Default is '/'.
srcFilePattern	String	Yes	Source file name pattern. Specify a file name pattern to identify which files to send. You can use the regular expression type.
deleteSourceFiles	String	-	Whether to delete source files after a successful POST request. Use one of the following values: <ul style="list-style-type: none"><li>- true. Delete source files.</li><li>- false. Save source files.</li></ul> Default is true.

For example, to transfer the files that begin with "file\_" that are located in the workspace directory, you might use the following request:

```
POST <serverUrl>/mftsaas/api/v1/sendfiles/<connection ID>
Accept:application/json
IDS-SESSION-ID: <icSessionId or INFA-SESSION-ID>
{
  "targetConnectionType": "as2",
  "srcDirectoryPath": "C:\\server\\userdata\\workspace",
  "srcFilePattern": "file_*"
}
```

For example, to transfer the files with ".txt" pattern, you might use the following request:

```
POST <serverUrl>/mftsaas/api/v1/sendfiles/<connection ID>
Accept:application/json
IDS-SESSION-ID: <icSessionId or INFA-SESSION-ID>
{
  "targetConnectionType": "Advanced SFTP V2",
  "srcDirectoryPath": "C:\\docstoreLocal2",
  "tgtDirectoryPath": "C:\\server\\userdata\\workspace",
  "srcFilePattern": ".*txt"
}
```

## POST Response

If successful, Informatica Intelligent Cloud Services returns the run ID for the job. Use the run ID to monitor the job status.

The following example shows a successful response:

```
{
  "projectId": 0,
  "timeTaken": 0,
  "queuePriority": 0,
  "runPriority": 0,
  "runMode": "UNKNOWN",
  "submitSourceId": -1,
  "correlationId": "OWMxOTc2YjktNzI4YS00Mm",
  "runModeInteractive": false,
  "runModeBatch": false,
  "runModeDebug": false,
  "runModeUnknown": true,
  "formattedTimeTaken": "0.00",
  "id": 1000000000384,
  "runId": 385
}
```

If unsuccessful, the response includes a reason for the failure.

## receivefiles

Use the receivefiles resource to get files from a remote server.

The following connection types use the receivefiles resource to transfer files to the remote server:

- Advanced FTP V2
- Advanced FTPS V2
- Advanced SFTP V2

Before you construct a receivefiles request to receive files, obtain the identifier of the connection that provides access to the server. To get the connection ID, you can send a GET request using the connection resource. The connection resource can return information for each of your organization's connections.

### POST Request

To receive files, include the connection ID in the following URI.

```
mftsaas/api/v1/receivefiles/<connection ID>
```

Include the following information in the request:

Field	Type	Required	Description
sourceConnectionType	String	Yes	Connection type. The supported source connection types are: <ul style="list-style-type: none"><li>- Advanced FTP V2</li><li>- Advanced FTPS V2</li><li>- Advanced SFTP V2</li></ul>
tgtDirectoryPath	String	Yes	Directory path to where files are transferred.
srcDirectoryPath	String	-	Directory path from where files are transferred. Default is '/'.
srcFilePattern	String	Yes	Source file name pattern. Specify a file name pattern to identify which files to send. You can use the regular expression type.

Field	Type	Required	Description
processFilesRecursively	String	-	Whether to process files from all sub-folders within the base directory. Default is false.
afterFilePickupAction	String	-	Determines what to do with source files after the files transfer. The following options are available: <ul style="list-style-type: none"> <li>- Keep the files in the source directory.</li> <li>- Delete the files from the source directory.</li> <li>- Rename the files in the source directory. You must specify a file name suffix that adds to the file name when renaming the files.</li> <li>- Archive the files to a different location. You must specify an archive directory.</li> </ul> Default is KEEP.
skipDuplicateFiles	String	-	Do not transfer duplicate files. If files with the same name and creation date were transferred, the task does not transfer them again, and the files are marked as duplicate in the job log. If this option is not selected the task transfers all files. Default is false.
whenFileExists	String	-	Determines what to do with a file if a flat file with the same name exists in the target directory. The following options are available: <ul style="list-style-type: none"> <li>- rename</li> <li>- overwrite</li> <li>- skip</li> <li>- stop</li> <li>- error</li> </ul> Default is rename.

For example, to transfer the files with ".txt" pattern, and rename the file if a flat file with same name exists in the target directory, you might use the following request:

```
POST <serverUrl>/mftsaas/api/v1/sendfiles/<connection ID>
Accept:application/json
IDS-SESSION-ID: <icSessionId or INFA-SESSION-ID>
{
  "sourceConnectionType": "Advanced SFTP V2",
  "tgtDirectoryPath": "C:\\docstoreLocal2",
  "srcDirectoryPath": "C:\\server\\userdata\\workspace",
  "srcFilePattern": ".*txt",
  "processFilesRecursively": false,
  "afterFilePickupAction": "KEEP",
  "skipDuplicateFiles": false,
  "whenFileExists": "rename",
}
```

## POST Response

If successful, Informatica Intelligent Cloud Services returns the run ID for the job. Use the run ID to monitor the job status.

The following example shows a successful response:

```
{
  "projectId": 0,
  "timeTaken": 0,
  "queuePriority": 0,
  "runPriority": 0,
  "runMode": "UNKNOWN",
  "submitSourceId": -1,
  "correlationId": "OWMxOTc2YjktNzI4YS00Mm",
  "runModeInteractive": false,
```

```
"runModeBatch": false,
"runModeDebug": false,
"runModeUnknown": true,
"formattedTimeTaken": "0.00",
"id": 1000000000384,
"runId": 385
}
```

If unsuccessful, the response includes a reason for the failure.

## job

When you use the REST API to send or receive files, use the REST API version 1 job resource to get the status of the file transfer.

Do not use the platform REST API version 2 job resource to get the status of an file transfer job.

### Get Request

When you send the request for status of an file transfer job, include the run ID returned in the sendfiles POST response. Use the following URI:

```
mftsaas/api/v1/job/<runID>/status
```

### Get Response

If successful, Data Integration returns the job status.

If unsuccessful, the response includes a reason for the failure.

### Get Response Example

If the request is successful, you might receive a response similar to the following example:

```
{
  "jobStatus": "SUCCESS"
}
```

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