



Informatica® Cloud Data Integration  
Spring 2020 April. - -

# AS2 Connector

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# Preface

Use *Cloud Data Integration AS2 Connector* to learn how to set up and use the AS2 Connector. Learn how business users can use AS2 Connector to send files from the organization to AS2 servers at external partner sites, and how users can configure the Informatica Intelligent Cloud Services File Integration Service to receive files from AS2 servers at external partner sites.

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# CHAPTER 1

## AS2 Connector

Use AS2 Connector to create connections to AS2 servers to facilitate sending files to external partners. You can also configure an AS2 server to receive files from external partners.

To send files to an AS2 server, configure an AS2 connection. When you configure the AS2 connection, you specify the runtime environment that determines which Secure Agent executes the file transfer. After you configure the AS2 connection, you can use the Informatica Intelligent Cloud Services REST API to send the files to the AS2 server.

For example, you work with a partner and want to send EDI messages to the partner's AS2 server. You use AS2 Connector to define the relevant partner connection. You send a POST request using the sendfiles REST API resource to transfer the EDI messages to the defined AS2 partner connection.

To receive AS2 files from an external partner, configure your organization's file server associated with the File Integration Service to securely communicate with the AS2 server. The File Integration Service is a Secure Agent service that runs advanced file transfer protocols such as AS2.

## AS2 overview

Applicability Statement 2 (AS2) is a method used to securely send and receive files over the internet.

AS2 messages are in MIME format. AS2 messages can be compressed, signed, encrypted, and then sent over an SSL tunnel, making AS2 a secure option for transferring files.

To help secure AS2 data transfer using encryption and digital signatures, you must have the appropriate certificates. AS2 uses SSL certificates for encrypting and signing messages. Partners sign their public certificate signatures with a private key. You must import the partner public certificate into your trusted certificate keystore. When you configure an AS2 connection, you associate the remote partner AS2 server and trading partner certificates with the connector.

Messages can be signed and encrypted, but do not have to be. Signed AS2 messages allow the recipient to verify that the message originated from a trusted trading partner.

AS2 implements Message Disposition Notification (MDN) receipts to confirm that a file was delivered intact. An MDN is an electronic return receipt that a trading partner can optionally request during a file transfer. The use of MDNs help enforce data integrity and non-repudiation in AS2. If the partner AS2 message requests an MDN, upon receipt of the message and successful signature validation if needed, Informatica Intelligent Cloud Services sends a "success" MDN back to the sender.

## Before you begin

Before you send and receive AS2 files, ensure that the organization has the appropriate licenses and that the organization and the AS2 partner exchange public keys.

To exchange files securely, the organization and the remote AS2 server need to exchange public keys. Perform the following tasks:

1. Send your public keys to the partner. Receive the partner public keys.
2. Import the partner public keys to your trust store.

Ensure that the File Integration Service is running on the Secure Agent. For information about checking the status of Secure Agent services, see the Administrator help.

## CHAPTER 2

# Sending AS2 files

To send files from your organization to a remote AS2 server, you define an AS2 connection to the AS2 server and send the files through REST API calls.

## Configuring an AS2 connection

An AS2 connection enables you to send files using the AS2 protocol. Configure an AS2 connection to specify a target AS2 server.

You create and configure an AS2 connection in Administrator on the **Connections** page.

1. Open Administrator and select **Connections**.
2. Click **New Connection**.
3. Specify a connection name.
4. In the **Type** list, select **AS2**.
5. Configure the connection properties.
6. To test the connection, click **Test Connection**.
7. Click **Save**.

The connection appears in the **Connections** page .

## AS2 connection properties

Configure connection properties for an AS2 server.

Configure the following properties on the **Connection** page in Administrator:

- AS2 connection properties, which define the connection and enable access to the AS2 server.
- Message properties, which specify access to private and public keys and message encryption preferences. The message properties also define how to pass messages to the organization such as whether to compress messages and whether to send or receive message receipts.
- Receipt properties, which specify whether to request MDN receipts, certificate and transfer encoding properties, and method of receiving MDN receipts.
- Proxy properties, which specify whether to use a proxy server and the proxy server details.



## Connection properties

The following table describes AS2 connection properties:

Connection property	Description
Runtime Environment	The name of the runtime environment that contains the Secure Agent that you want to run the tasks.
URL	URL of the server that receives the messages. The URL syntax must refer to a valid server and location. The host name can be an IP address or a domain name. The port number is the port on which the AS2 server listens.
AS2 From ID	Name or ID of the sender. If the receiving server filters by this ID, the IDs must match. Value is case sensitive and can contain 1 to 128 ASCII printable characters in length. The value cannot contain white spaces.
AS2 To ID	Name or ID of the recipient. Value is case sensitive and can contain 1 to 128 ASCII printable characters in length. The value cannot contain white spaces.
Username	User name to connect to the remote AS2 server.
Password	Password to connect to the remote AS2 server.
Connection Timeout	Maximum number of seconds to wait when attempting to connect to the server. A timeout occurs if a successful connection does not occur in the specified amount of time. If the value is 0 or blank, the wait time is infinite. Default is 60 seconds.
Read Timeout	Maximum number of seconds to wait when attempting to read a file from the server. A timeout occurs if the file is not read in the specified amount of time. If the value is 0 or blank, the wait time is infinite. Default is 0 seconds.
Connection Retry Attempts	Number of times to retry connecting to the AS2 server if a successful connection does not occur. This setting applies to both the initial connection and any reconnect attempts due to lost connections. If the value is blank, no retries are attempted. Default is blank.
Connection Retry Interval	Number of seconds to wait between each connection retry attempt. For example, to retry to connect up to 10 times with a five second delay between retries, set <b>Connection Retry Attempts</b> to 10 and <b>Connection Retry Interval</b> to 5. If the value is blank, the interval is 0 seconds. Default is blank.
Follow Redirects	Whether or not to follow redirect links when creating a connection. Default is false.
User Agent	Value used in the message header to indicate what application created or sent the message.

Connection property	Description
Use Chunked Encoding	Whether or not to pre-calculate the length of the request or send the request in chunks. Pre-calculating the content length might slow performance when sending large files. However, not all AS2 servers support chunked encoding. Default is false.
Client Certificate Alias	Alias of the key within the default keystore to use for client authentication when required by the receiving AS2 server.
SSL Context Protocol	Protocol to use when creating the SSLContext. The protocol that you specify depends on the security providers installed in the Java Runtime Environment (JRE). <b>Note:</b> In most cases, the default value of SSL is appropriate. However, for some IBM JRE implementations, the default value of SSL will not work if the server you are connecting to does not support SSLv3. Default is SSL.

Enter the actual information in this section (optional).

### Connection properties

## Message properties

The following table describes AS2 connection message properties:

Connection property	Description
Trust Store Location	Path to the truststore that stores the public key certificates. Must be on the Secure Agent machine or on a server accessible to the Secure Agent.
Trust Store Password	Password to access the truststore.
Encrypt Messages	Whether or not to encrypt messages during transmission. Encrypting the message within the encrypted tunnel is optional, but highly recommended. Default is false.
Encryption Algorithm	Algorithm to use to encrypt messages. Choose one of the following algorithms: <ul style="list-style-type: none"> <li>- AES128</li> <li>- AES256</li> <li>- CAST5</li> <li>- IDEA</li> <li>- TRIPLE-DES</li> <li>- RC2</li> </ul> Default is AES128.
Encryption Certificate Alias	Certificate alias to use in the default trusted certificate keystore to encrypt the outgoing message.
Sign Messages	Whether or not to sign the message with a digital signature. Signing messages is optional, but highly recommended. Default is false.

Connection property	Description
Private Keystore Location	Location of the keystore that stores private keys and associated certificates. Applicable when signing messages is enabled.
Private Keystore Password	Password to access the keystore. Applicable when signing messages is enabled.
Signature Algorithm	Algorithm to use to sign messages. Applicable when signing messages is enabled. Choose one of the following algorithms: <ul style="list-style-type: none"> <li>- SHA1</li> <li>- SHA224</li> <li>- SHA256</li> <li>- SHA384</li> <li>- SHA512</li> <li>- MD5</li> </ul> Default is SHA1.
Signature Certificate Alias	Private key alias to use to sign the message. The private key is located in the default private keystore.
Compress Messages	Whether or not to compress messages to reduce bandwidth. If you enable this option, Informatica Intelligent Cloud Services compresses messages using the zlib format. Default is false.

## Receipt properties

The following table describes AS2 connection receipt properties:

Connection property	Description
Receipt Certificate Alias	Alias for the receipt certificate. Applicable when you configure the connection to require a signed receipt. AS2 Connector uses the receipt certificate to verify that the certificate that signed the receipt is a certificate in the default trusted certificate keystore. Optional if the receipt signature contains an embedded certificate. If the receipt signature does not contain an embedded certificate, you must specify the receipt certificate alias.
Receipt Transfer Encoding	Type of encoding to use for message receipts. This is useful when the receipt does not include the transfer encoding. Use one of the following values: <ul style="list-style-type: none"> <li>- base64</li> <li>- quoted-printable</li> <li>- 7bit</li> <li>- 8bit</li> <li>- binary</li> </ul>
Request Receipt	Whether or not to request a MDN receipt when the server receives the message. Select one of the following options: <ul style="list-style-type: none"> <li>- None. Do not require a receipt.</li> <li>- Signed. Require a receipt signed with a digital signature.</li> <li>- Unsigned. Require a receipt without a digital signature.</li> </ul> Default is none.

Connection property	Description
Destination	<p>Mode with which to receive the MDN. Applicable when you request a receipt.</p> <p>Select one of the following values:</p> <ul style="list-style-type: none"> <li>- Joblog. Receive MDN in the job log, accessible in Monitor.</li> <li>- File. Receive MDN in a file.</li> <li>- Email. Receive MDN in an email.</li> <li>- URL. Receive MDN through an URL.</li> <li>- Discard. Discard MDN.</li> </ul> <p>Default is joblog.</p>
File	Path including the file name to store the MDN. Applicable for a file destination.
When File Exists	<p>Determines how to resolve name conflict when a receipt file already exists. Applicable for a file destination.</p> <p>Select one of the following values:</p> <ul style="list-style-type: none"> <li>- Rename. Rename the new receipt file by adding a sequential number. For example, fileMdn 2.txt, fileMdn 3.txt</li> <li>- Append. Append receipt to the existing file.</li> <li>- Overwrite. Overwrite contents of the existing receipt file.</li> <li>- Skip. Do not upload the receipt.</li> <li>- Error. Duplicate file name causes error.</li> </ul> <p>Default is rename.</p>
Email Address	Email address to send the receipts. Applicable for an email destination.
Receipt URL	URL to post the receipts. Applicable for an URL destination.

## Proxy properties

The following table describes AS2 connection proxy properties:

Connection property	Description
Enabled	<p>Determines if a proxy server is enabled for the connector.</p> <p>Default is disabled.</p>
Proxy Type	<p>Type of proxy server to use for the connection.</p> <p>Select one of the following types:</p> <ul style="list-style-type: none"> <li>- SOCKS. You can use SOCKS version 4 or 5.</li> <li>- HTTPS.</li> <li>- Informatica File Server proxy.</li> </ul> <p>Verify with your network administrator which proxy server type to use.</p>
Host	Host name or IP address of the proxy server on your network.
Alternate Host	Host name or IP address of an alternate proxy server on your network. The alternate proxy server is used when the primary proxy server is unavailable.
Port	Port number of the proxy server on your network. If left blank, the default port for HTTP is 80 and the default port for SOCKS is 1080.

Connection property	Description
User	User name to use for login when connecting to the proxy server.
Password	Password for connecting to the proxy server. Required if your network uses the proxy server to create HTTP or HTTPS connections.

## File transfer using REST API resources

To send files to an AS2 server, you can use the Informatica Intelligent Cloud Services REST API. To use the REST API, you must be assigned the Admin user role.

Use the following REST API resources to send AS2 files:

### connection resource

Use the connection resource to get the ID of the AS2 connection that provides access to the AS2 server. For information about the connection resource, see the "Data Integration REST API Resources" section in *REST API Reference*.

### sendfiles resource

Use the sendfiles resource to send the files to the AS2 server. Include the AS2 connection ID in the request. For information about the sendfiles resource, see "[sendfiles](#)" on page 13 or the "Data Integration REST API Resources" section in *REST API Reference*.

To monitor file transfers that you initiate through the REST API, you can use the job REST API resource or you can use the Informatica Intelligent Cloud Services Monitor service.

For more information, see [Chapter 4, "Monitoring AS2 file transfers" on page 16](#).

## sendfiles

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

Before you construct a sendfiles request to transfer AS2 files, obtain the identifier of the AS2 connection that provides access to the AS2 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. To transfer files to an AS2 server, specify "as2".
srcDirectoryPath	String	Yes	Directory path to the files you want to transfer.

Field	Type	Required	Description
srcFilePattern	String	Yes	Source file name pattern. Specify a file name pattern to identify which files to send. You can use the asterisk (*) wildcard in the file name pattern.
deleteSourceFiles	String	-	Whether to delete source files after a successful POST request. Use one of the following values: - true. Delete source files. - false. Save source files. 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>/mftsaa/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_*"
}
```

## 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.

## CHAPTER 3

# Receiving AS2 files

Configure file transfer servers and file transfer users to allow remote partners to send AS2 files to your Informatica Intelligent Cloud Services organization.

The File Integration Service is a Secure Agent service that runs advanced file transfer protocols such as AS2. You can configure an AS2 file server for each runtime environment that uses the File Integration Service. Configure the file server properties in Administrator on the **File Servers** page.

To enable remote partners to send AS2 files to your organization, complete the following tasks:

- Configure file server properties to receive AS2 files from remote servers.
- Configure server users for remote partners so that they can send files to your server.
- Specify default folders where the files will be sent.

To complete these tasks, you must be assigned the Admin role.

For more information, see *File Servers* in Administrator.

## CHAPTER 4

# Monitoring AS2 file transfers

You can monitor AS2 file transfers on the **File Transfer Logs** page in Monitor. When you use the REST API to send AS2 files, you can also use the REST API version 1 job resource to receive status of the file transfer.

## Monitoring AS2 file transfers in Monitor

Whenever you send files through an AS2 connection or your AS2 server receives files, the file transfer service generates a log file. You can access the AS2 file transfer logs in Monitor.

You can view AS2 file transfer logs on the following pages:

### File Transfer Logs page

Lists all file transfers that are in progress or have completed.

### Details page

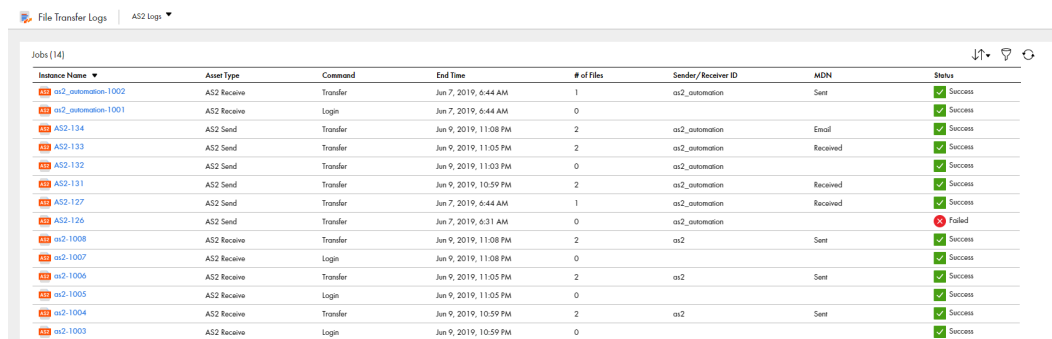
Displays detailed information about a specific file transfer log. You can also download the file transfer log file.

## Viewing AS2 file transfer logs

To view a list of the AS2 file transfers that have completed, in Monitor, click **File Transfer Logs**.

To filter the list for AS2 file transfer logs, select **AS2 Logs**.

The **File Transfer Logs** page lists AS2 file transfer logs for send and receive file transfers and provides status information, as shown in the following image:



The screenshot shows the 'File Transfer Logs' page with a filter set to 'AS2 Logs'. The table displays 14 jobs with columns for Instance Name, Asset Type, Command, End Time, # of Files, Sender/Receiver ID, MDN, and Status. The status column uses green checkmarks for 'Success' and a red X for 'Failed'.

Instance Name	Asset Type	Command	End Time	# of Files	Sender/Receiver ID	MDN	Status
as2_automation-1002	AS2 Receive	Transfer	Jun 7, 2019, 6:44 AM	1	as2_automation	Send	Success
as2_automation-1001	AS2 Receive	Login	Jun 7, 2019, 6:44 AM	0			Success
AS2-134	AS2 Send	Transfer	Jun 9, 2019, 11:08 PM	2	as2_automation	Enrol	Success
AS2-133	AS2 Send	Transfer	Jun 9, 2019, 11:05 PM	2	as2_automation	Received	Success
AS2-132	AS2 Send	Transfer	Jun 9, 2019, 11:03 PM	0	as2_automation		Success
AS2-131	AS2 Send	Transfer	Jun 9, 2019, 10:59 PM	2	as2_automation	Received	Success
AS2-127	AS2 Send	Transfer	Jun 7, 2019, 6:44 AM	1	as2_automation	Received	Success
AS2-126	AS2 Send	Transfer	Jun 7, 2019, 6:31 AM	0	as2_automation		Failed
as2-1008	AS2 Receive	Transfer	Jun 9, 2019, 11:08 PM	2	as2	Send	Success
as2-1007	AS2 Receive	Login	Jun 9, 2019, 11:08 PM	0			Success
as2-1006	AS2 Receive	Transfer	Jun 9, 2019, 11:05 PM	2	as2	Send	Success
as2-1005	AS2 Receive	Login	Jun 9, 2019, 11:05 PM	0			Success
as2-1004	AS2 Receive	Transfer	Jun 9, 2019, 10:59 PM	2	as2	Send	Success
as2-1003	AS2 Receive	Login	Jun 9, 2019, 10:59 PM	0			Success



The **File Transfer Logs** page includes the following properties for each AS2 file transfer log:

Property	Description
Instance Name	Name of the AS2 file transfer instance.
Asset Type	Type of AS2 file transfer log. For sending files to remote AS2 servers, the type is AS2 Send. For receiving files from remote AS2 servers, the type is AS2 Receive.
Command	Type of activity, such as transfer, login, or MDN received.
End Time	Date and time that the file transfer ended.
# of Files	Number of files included in the transfer.
Sender/Receiver ID	For AS2 Send file transfers, the AS2 ID of the receiver. For AS2 Receive file transfers, the AS2 ID of the sender.
MDN	Status of the MDN message. For an AS2 Send, the status can be one of the following values: <ul style="list-style-type: none"><li>- Received. MDN is received.</li><li>- Email. MDN delivery mode is through email.</li><li>- URL. MDN delivery mode is through a URL.</li><li>- None. MDN is not requested.</li></ul> For an AS2 Receive, the status can be one of the following values: <ul style="list-style-type: none"><li>- Pending. MDN has not been sent yet.</li><li>- Sent. MDN is sent to the client.</li><li>- None. MDN is not requested.</li></ul>
Status	Status of the AS2 file transfer, such as completed successfully or failed. To quickly find out why a transfer failed, rest your cursor over the Failed icon

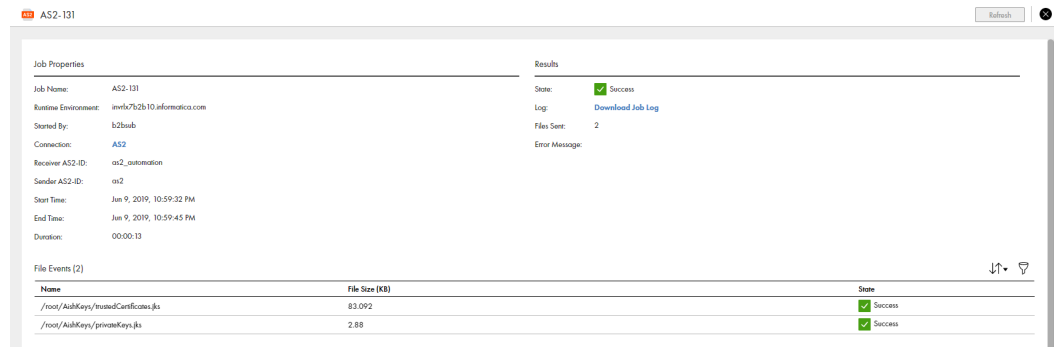
## Viewing details for an AS2 file transfer

To view detailed information about an AS2 file transfer including a list of transferred files, click the instance name on the **File Transfer Logs** page.

When you click the instance name, a detailed description of the file transfer opens. The type of information on the page depends on whether the instance type is AS2 Send or AS2 Receive and on the command type.

The log contains details including message properties and the status of each file included in the an AS2 file transfer. For an AS2 Send transfer, you can download the log file to help you troubleshoot the job.

To open the details page for an AS2 file transfer, click the instance name on the **File Transfer Logs** page. The following image shows the details for an AS2 Send transfer:



## Details for AS2 Send file transfers

For an AS2 Send transfer, the log details include information about the job properties, job results, and files included in the job.

### Job properties

Job details include the following properties:

Property	Description
Job Name	Name of the job.
Runtime Environment	Runtime environment that contains the Secure Agent used to run the job.
Started By	The user who initiated the job or name of the file listener that initiated the job.
Connection	AS2 connection used to send the files.
Receiver AS2-ID	ID of the remote AS2 server that received the files.
Sender AS2-ID	ID of the AS2 server that sent the files.
Start Time	Date and time that the file transfer started.
End Time	Date and time that the file transfer ended.
Duration	Amount of time that the file transfer ran.

### Results

Job result information includes the following properties:

Property	Description
State	Status of the job, such as Success or Failed.
Log	Link to download the job log.

Property	Description
Files Sent	Number of files sent in the job.
Error Message	Error message if the job failed.

## Files

Details about the files sent to the AS2 server include the following properties for each file:

Property	Description
Name	Full path and name of the file.
File Size	Size of the file, in kilobytes.
Status	Status of the file transfer, such as Success or Failed.

## Details for AS2 Receive file transfers

For an AS2 Receive type of file transfer, the log details include information about the event properties, message properties, and files included in the file transfer.

Event details include the following properties:

Property	Description
Server IP	IP address of the AS2 server receiving the files.
Server Port	Port number for the AS2 server receiving the files.
Receiver AS2-ID	ID used by the recipient.
Remote IP	IP address of the client sending the files.
Remote Port	Port number for the client sending the files.
Sender AS2-ID	Name or ID used by the sender.
Username	User name of the file server user.
Command	Type of activity, such as transfer, login, or MDN received.
Subject	Subject of the message.
Encryption Algorithm	Algorithm used to encrypt the message.
Signature Algorithm	Algorithm used to sign the message.
Compressed	Indicates whether the message is compressed.

Property	Description
Content Type	Content type of the message.
Message ID	ID of the message.

MDN details include the following properties:

Property	Description
MDN Type	Whether the MDN is asynchronous or synchronous.
MDN Signed	Indicates whether the MDN is signed with a digital signature.
MDN Sent	Whether the MDN was sent.
MDN Delivery	Method used to deliver the MDN such as email, URL, job log, or file.
MDN	Link to view the MDN.
MIC	The message integrity check code.
MIC Algorithm	The MIC algorithm used for the signature.
State	Status of the transfer, such as Success or Failed.
Error Message	Error message if the transfer failed.

Details about the files include the following properties for each file:

Property	Description
Name	Full path and name of the file.
File Size	Size of the file, in kilobytes.
Status	Status of the file transfer, such as Success or Failed.

## Monitoring AS2 Send file transfer jobs using the REST API

When you use the REST API to send AS2 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 AS2 file transfer job. For more information about the Informatica Intelligent Cloud Services REST API, see *REST API Reference*.

## Get Request

When you send the request for status of an AS2 Send 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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