

Axon Ivy's **SFTP Connector** helps you to accelerate process automation initiatives by integrating secure file transfer into your process work. With this SFTP client you can easily transfer files securely to and from a remote computer. This connector:

- uses the SFTP protocol
- is based on JSch [<http://www.jcraft.com/jsch/>] to handle the SFTP Connections and Operations
- is a pure Java implementation of SSH2
- allows you to connect to an sshd server and use port forwarding, X11 forwarding, file transfer, etc.
- makes it easy to integrate secure file transfer into your process work

' Demo

1. Click on **File to Upload** and select one file from your local directory.

Demo Sftp Client

Client Host	<input type="text" value="localhost"/>
Client Port	<input type="text" value="22"/>
Client Username	<input type="text" value="usr"/>

▼ Upload File

File to Upload

+ File to Upload

Path: Sftp/SftpUploadFile -> uploadFile(fileToBeUploaded, filename)

Description: this operation will upload the file to the root path on the server.

Parameters:

- fileToBeUploaded -> the file to upload as java.io.InputStream
- filename -> the file name as String

2. Click on **Refresh** to list all the files on the remote directory.

- o Select one file from the list and click on **Download**.

Demo Sftp Client

Client Host

Client Port






Client Username

> Upload File

▼ Download File

List of Remote Files

 Refresh

Name	Size	Download
01.02 Development Rules-v147-20210622_093846.docx	4727854 bytes	 Download
16.06.2021 15_30 (2).pdf	120140 bytes	 Download
16.06.2021 15_30.pdf	120140 bytes	 Download
1792 (2).pdf	102661 bytes	 Download
1792.pdf	102661 bytes	 Download

Path: Sftp/SftpDownloadFile -> downloadFile(remoteFileName) Result: toFile

Description: this operation will download the file from the server.

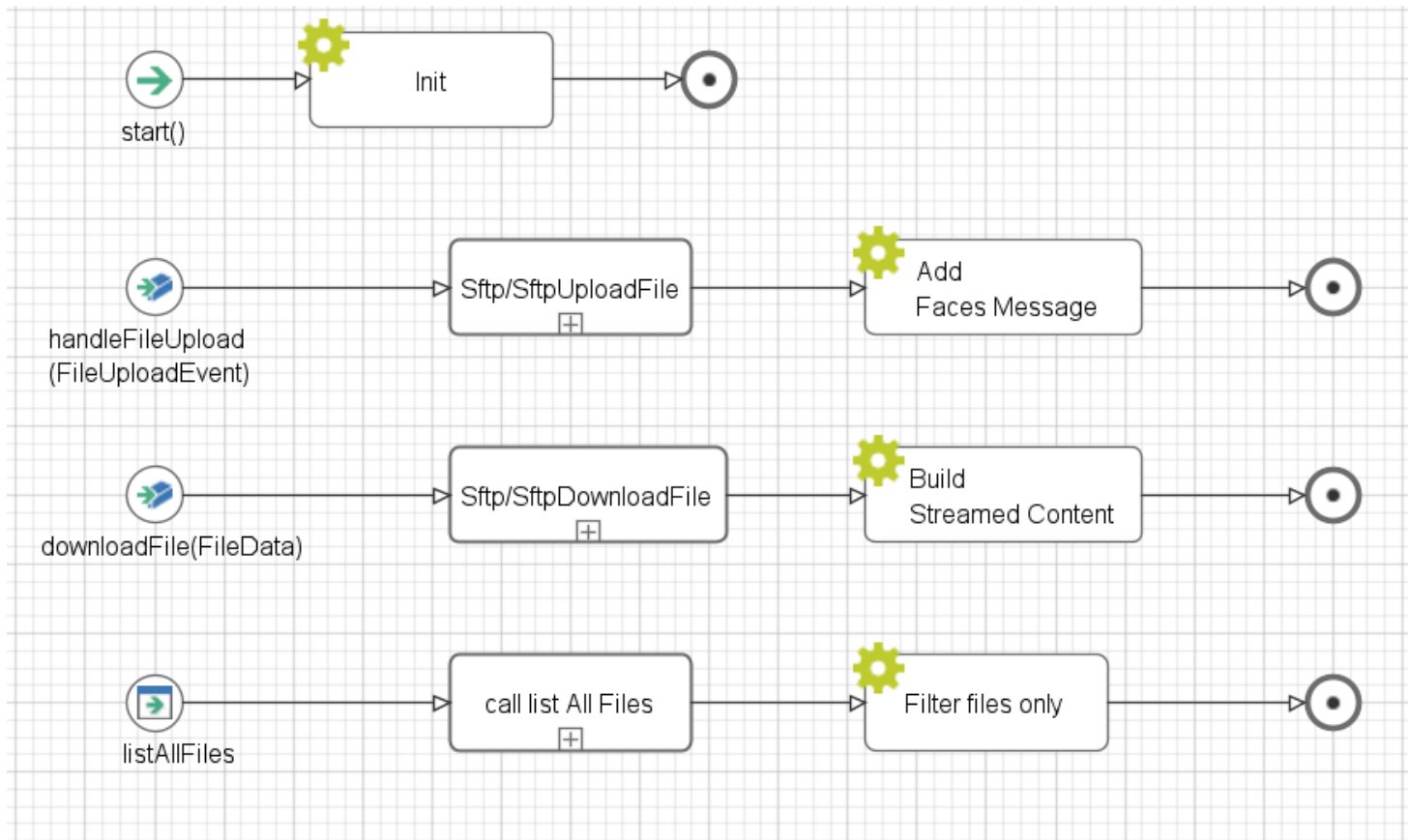
Parameters:

- remoteFileName -> the file name as String

Result:

- toFile -> the File to download as java.io.File

The **SftpClientDemo** HTML Dialog contains all the final operations to upload, list and download the file from/to the SFTP Server.



Setup

Before starting the demo, please make sure to have an SSH/SFTP server on your computer (respective the computer you want to access). For testing, the following "Rebex Tiny SFTP Server (free)" was used. Rebex Tiny SFTP Server (free): [<https://www.rebex.net/tiny-sftp-server/>] Small, minimalist, single-user SFTP server for testing purposes, free for commercial and non-commercial use

1. Open the following settings in "RebexTinySftpServer.exe.config" with a text editor and update the following values:

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <configuration>
3   <appSettings>
4     <!-- user credentials and root directory -->
5     <add key="userName" value="usr" />
6     <add key="userPassword" value="pwd" />
7     <add key="userRootDir" value="c:\temp" />
```

2. Open the `Configuration/variables.yaml` in your Designer and update the following global variables:

Variables:

```
com.axonivy.connector.sftp.server:  
  # The host name to the SFTP server  
  host: 'localhost'  
  
  # The password to the SFTP server  
  password: pwd  
  
  # The port number to the SFTP server  
  port: 22  
  
  # The username to the SFTP server  
  username: 'usr'
```

3. Save the changed settings.

' Prerequisites:

- Working **SFTP Server**.
- You will also need the correct Server host name and the port number.