

# Cotton Harvest File Download Utility – Setup Guide

Date: 06/08/2021

## Application Overview

The Cotton Harvest File Download Utility may be used to automate the download of Harvest ID files from MyJohnDeere.

### Download process

The application download process will download all harvest id zip files, extract the files, and find the Harvest ID file in the archive. For each harvest id file an output file is created. Output files are named using the Machine ID and the timestamp that the file was downloaded. All output files are written to a single folder selected by the user.

The application maintains a row count for each unique file downloaded. This is used on subsequent downloads to only output newly appended records. The application identifies a file by the first data line instead of the filename, it is possible for the same file data to go into MyJohnDeere under different file names. Therefore, matching on the first data line is a more accurate way of matching datasets.

## System Pre-requisites and Recommendations

- PC running Microsoft® Windows® version 7, 8.1, or 10
- At least 100MB storage space to install the application. More space will be needed to store downloaded files. Total storage required will depend on the number of files being received.
- Access to an active MyJohnDeere account and appropriate subscriptions and/or licenses to receive files from trusted partners.
- Microsoft .NET Framework 4.6.1. If it does not already exist on your system, the setup installer will acquire and install this package for you.
- Microsoft SQL Express Local DB 2014 - This is lightweight and free database engine from Microsoft. If it does not already exist on your system, the setup installer will acquire and install this package for you.

# Installing the application

## Step 1 – Uninstall Previous Version



If you have a version of the application installed prior to June 2021, it is recommended that you uninstall the previous version. The updated version implements John Deere’s required OAuth 2 authentication flow.

## Step 2 – Obtain the setup package

The application installer is packaged in a ZIP archive named *CottonHarvestFileDownloadUtilityProductionV2\_0.zip*. Download and extract this file to your computer

## Step 3 – Run the automated setup

The ZIP file you extracted in Step 1 will contain two files as shown below.

Name	Date modified	Type	Size
 CottonHarvestDownloadUtilitySetup.msi	12/28/2016 4:19 PM	Windows Installer ...	3,224 KB
 setup.exe	12/28/2016 4:19 PM	Application	1,088 KB

Double click the file named *setup.exe*. It is recommended that you run *setup.exe*, and not the .msi file. Running the *setup.exe* ensures that any pre-requisite Windows components are installed before launching the application install. The setup program will guide you through the installation.

## Configuring the Application

Once the application is installed, it will open automatically if you opted for the application to launch at the end of the installer (the default.) If you opted not to launch the application when the installer completed, browse to your desktop and click the *Cotton Harvest File Download Utility* icon.

This will launch the application and you will see a screen like the one below:

Initial Setup

## Welcome, to the Cotton Harvest File Download Utility


In the next few steps you will be guided through establishing your data link and setting up automated downloads.



### Step 1 - Link your MyJohnDeere account

You need to link your MyJohnDeere account. Click the 'Sign In' button below to open a web browser for login. After logging in, you will be prompted to allow your web browser to launch this utility.

[Sign In](#) [Exit](#)

Click the *Sign In* button - this opens a separate web browser window and will require you to login to your MyJohnDeere account. After logging in, you will be prompted with a screen to give the utility access to your My John Deere account as shown below. Click *Allow Access* to continue.

 **JOHN DEERE**

**Cotton Harvest File Download Utility**  
would like to do the following on your behalf,  
**Matt B.:**

**Modify operators, staff, and partners**  
View Information about your organization.

**View operators, staff, and partners**  
Ability to view organization staff, operators, and partners, including access levels.  
Ability to request partnerships.

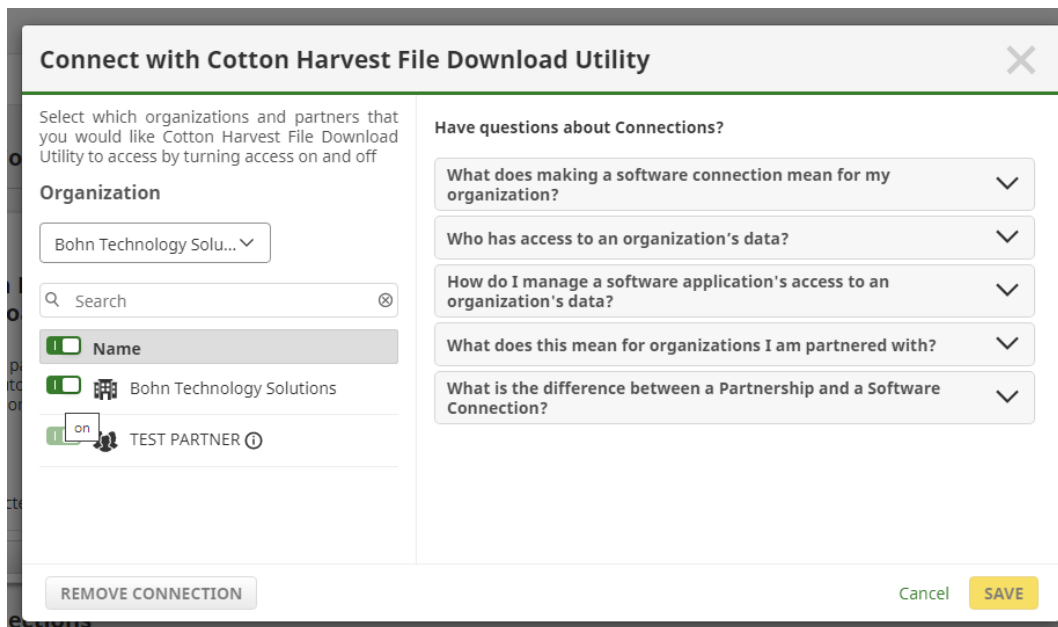
**Upload and download files**  
Ability to access and exchange files between systems.

By clicking Allow Access, you allow this app access to the actions listed above.

[Don't Allow](#) [Allow Access](#)

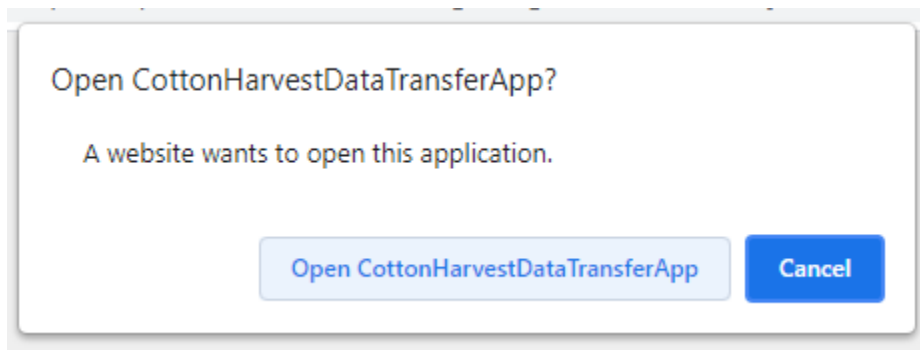
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All Rights Reserved.

Next, you may be prompted to give the app access to your organization and any linked partners. A sample of the screen to grant organization access is shown below. Toggle the switch on for each partner (producer) that you will be retrieving data from and click *Save*.



The screenshot shows a dialog box titled "Connect with Cotton Harvest File Download Utility". It has a close button (X) in the top right corner. The main content area is divided into two columns. The left column contains instructions: "Select which organizations and partners that you would like Cotton Harvest File Download Utility to access by turning access on and off". Below this is a section titled "Organization" with a dropdown menu showing "Bohn Technology Solu...". There is a search bar with a magnifying glass icon and a close icon. Below the search bar is a list of organizations with toggle switches. The first organization is "Bohn Technology Solutions" with a toggle switch that is currently off. The second organization is "TEST PARTNER" with a toggle switch that is currently on. At the bottom of the left column is a "REMOVE CONNECTION" button. The right column is titled "Have questions about Connections?" and contains five expandable sections with downward arrows: "What does making a software connection mean for my organization?", "Who has access to an organization's data?", "How do I manage a software application's access to an organization's data?", "What does this mean for organizations I am partnered with?", and "What is the difference between a Partnership and a Software Connection?". At the bottom right of the dialog box are "Cancel" and "SAVE" buttons.

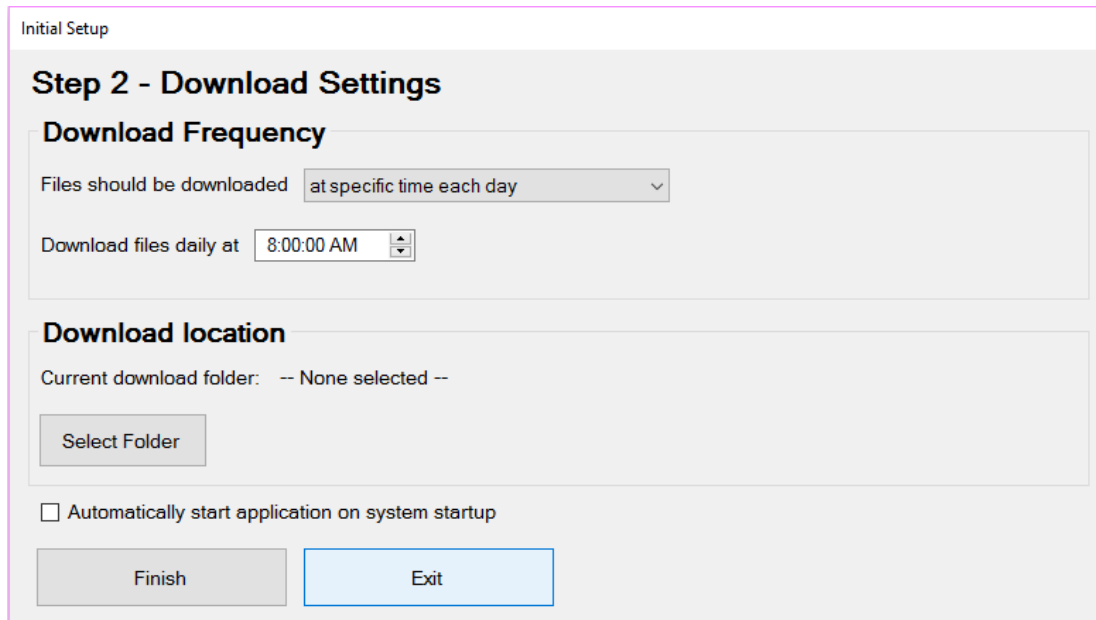
After clicking *Save*, you may see a prompt as shown below.



The screenshot shows a dialog box titled "Open CottonHarvestDataTransferApp?". It contains the text "A website wants to open this application." Below the text are two buttons: "Open CottonHarvestDataTransferApp" and "Cancel".

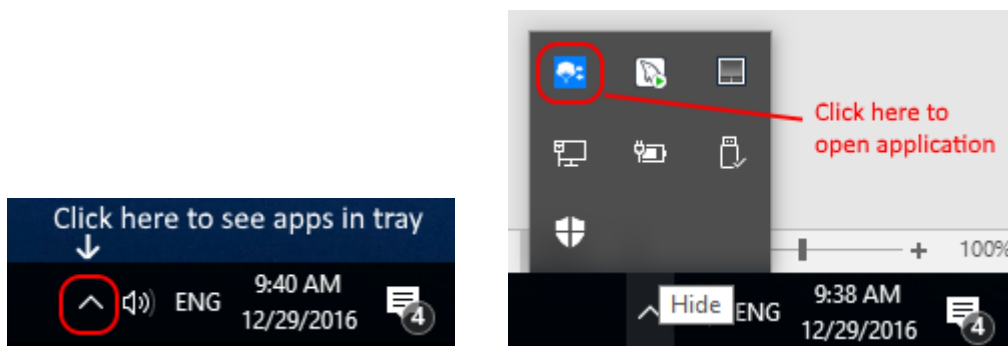
Click *Open CottonHarvestDataTransferApp*.

After choosing to open the app, switch back to the Cotton Harvest Download Utility. You should see that the application has advanced to step 2 as shown below.



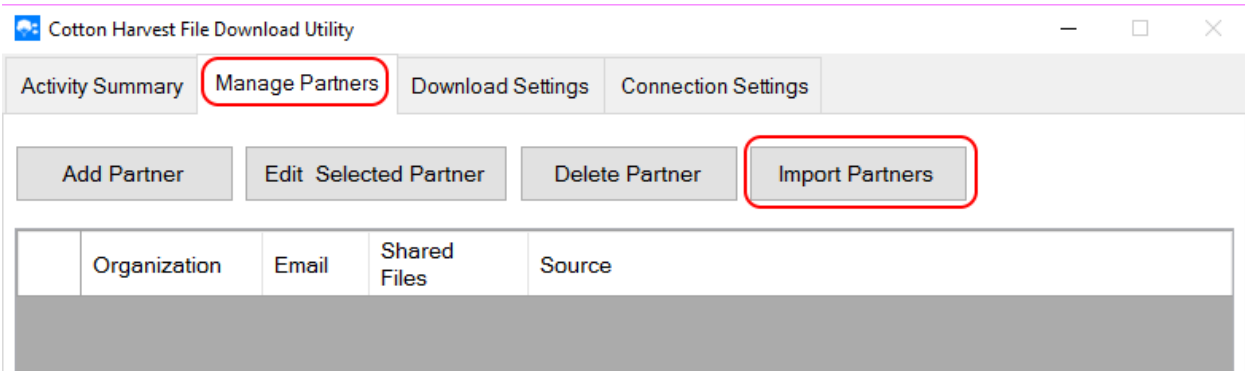
The screenshot shows the 'Initial Setup' window for the Cotton Harvest Download Utility. The title bar says 'Initial Setup'. The main heading is 'Step 2 - Download Settings'. There are two sections: 'Download Frequency' and 'Download location'. In the 'Download Frequency' section, 'Files should be downloaded' is set to 'at specific time each day' (indicated by a dropdown arrow), and 'Download files daily at' is set to '8:00:00 AM' (indicated by a time picker). In the 'Download location' section, 'Current download folder:' is '-- None selected --', and there is a 'Select Folder' button. At the bottom, there is a checkbox for 'Automatically start application on system startup' which is unchecked. There are two buttons: 'Finish' and 'Exit'.

From this screen choose your preferred download frequency and a download location. Check the 'Automatically start application on system startup' box if you want to run the application automatically each time you startup and login to Windows. Click finish, and your setup should be complete. When the application is running, it will be visible in the System Tray. See the illustrations below for examples of the system tray on Windows 10 (appearance will be slightly different on Windows 7 and 8.1).

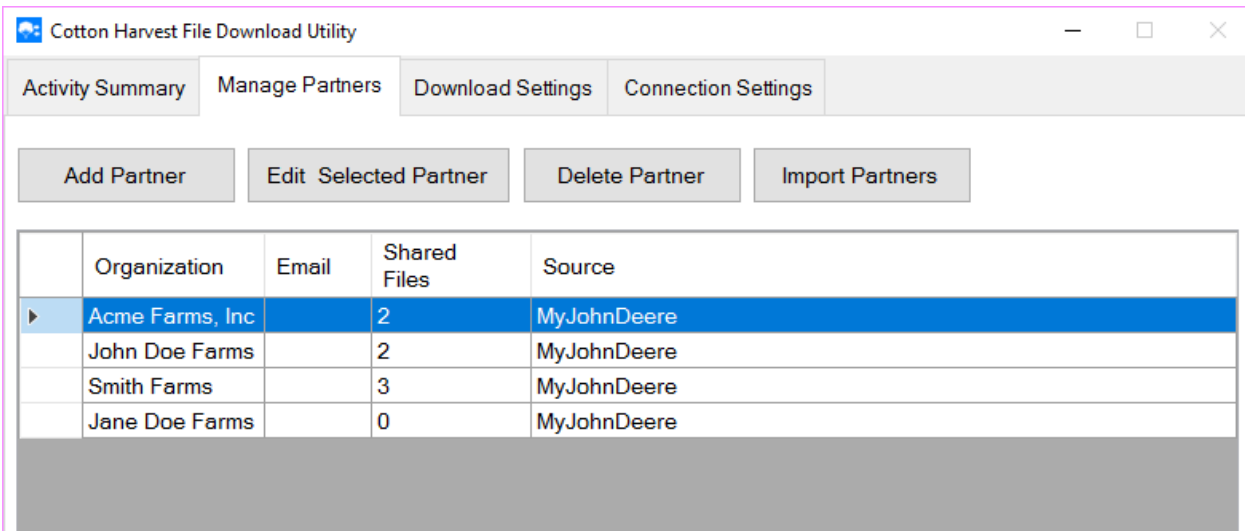


## Importing Partner Organizations

With the application open click on the *Manage Partners* tab. Then click *Import Partners*. See illustration below:



After clicking import partners a confirmation will appear, click yes and the import should start. Once the import completes, you should see a list of organizations that have you setup as a Trusted Partner similar to what is shown below:



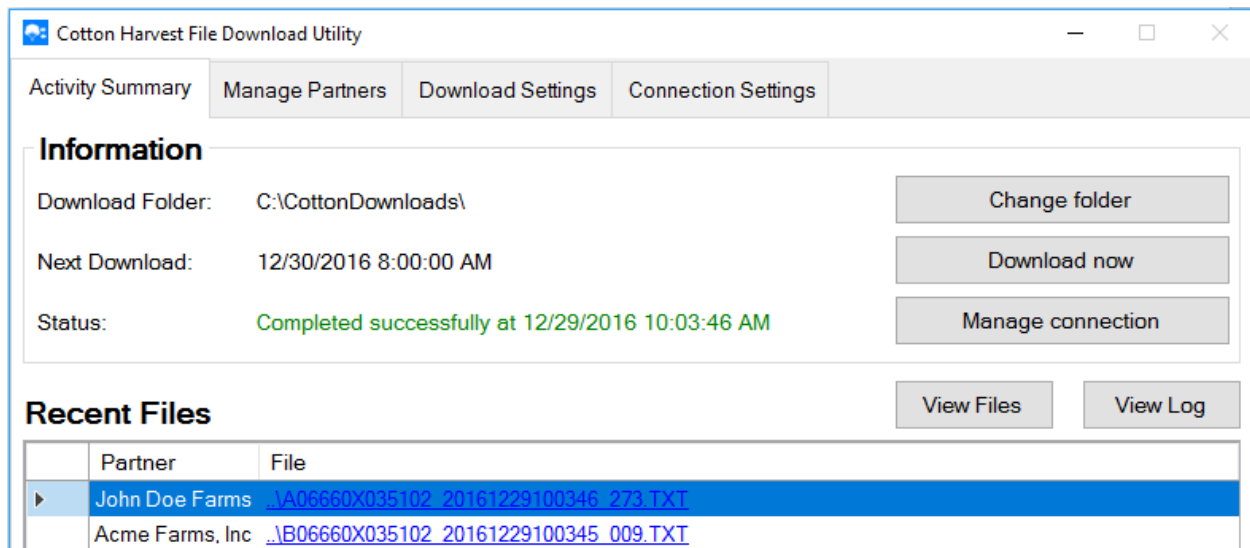
If you do not see any partners listed after importing, this means you need to setup the appropriate Trusted Partner relationships with your producers in the MyJohnDeere website. You may initiate a request to be added as a trusted partner by clicking the *Add Partner* button and entering the organization name and the producer's email. You may re-send the request again later by using the 'Edit Selected Partner' button. Trusted partnerships may also be setup in the MyJohnDeere website.

**\*NOTE: After adding a partner, and after the partner accepts the invitation, you will need to visit the "Connection Settings" tab and click *Set Permissions* to give the app access to the newly added partner.**

If organizations appear in your list that you do not want to download files for, then select that organization row and click *Delete Partner*. This does not remove them from your MyJohnDeere account, but will prevent the application from downloading their files.

## The Activity Summary

The activity summary provides a snapshot of application activity.



### Information box

The information box shows current settings and status. The *Download now* button can be used to manually start a download as opposed to waiting for the next scheduled download.

### Recent Files

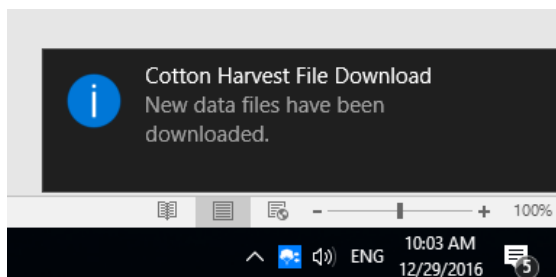
The recent files list shows the files downloaded the last time a download occurred. Clicking the file link will open that file in the default Windows text editor (usually Notepad).

The View Files button will open the folder containing all download files, in Windows File Explorer.

The View Log button opens a log of application activity, this log contains diagnostic information.

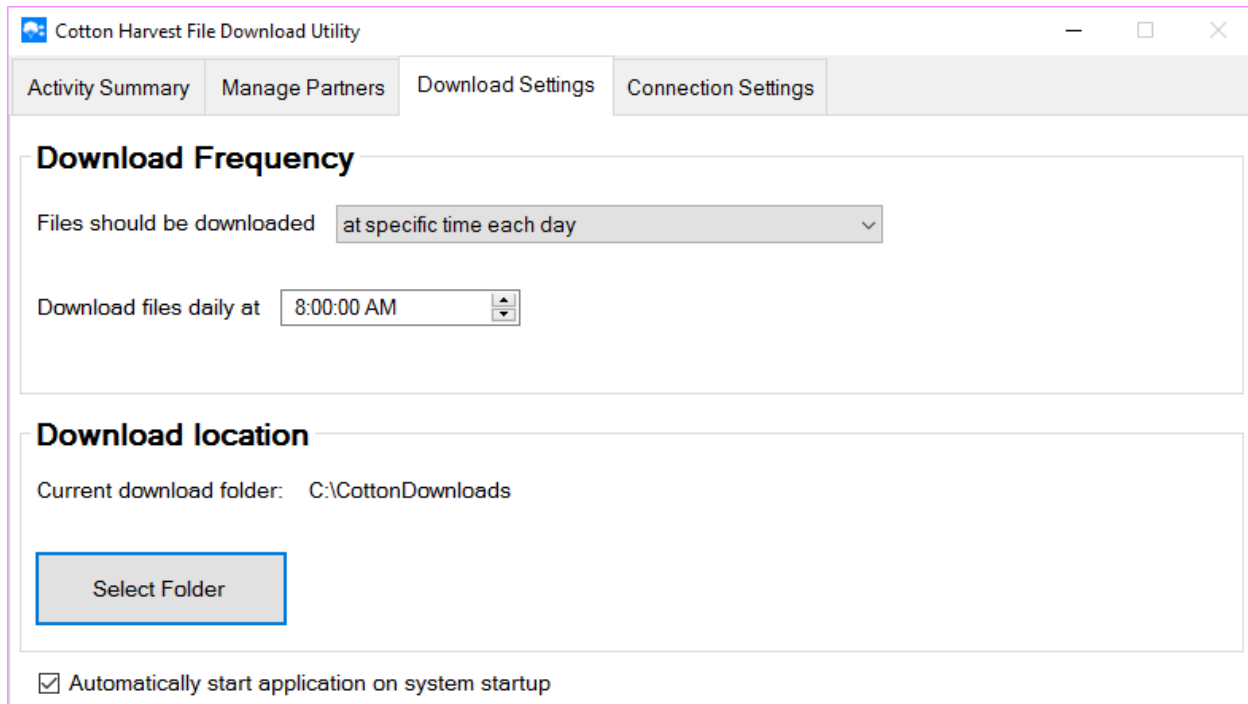
### Notifications

When new files are downloaded a notification message like the one below will be shown to alert the user. Appearance may vary on different versions of Windows.



## Managing Download Settings

Download settings may be changed and updated at any time using the Download settings tab as shown below:

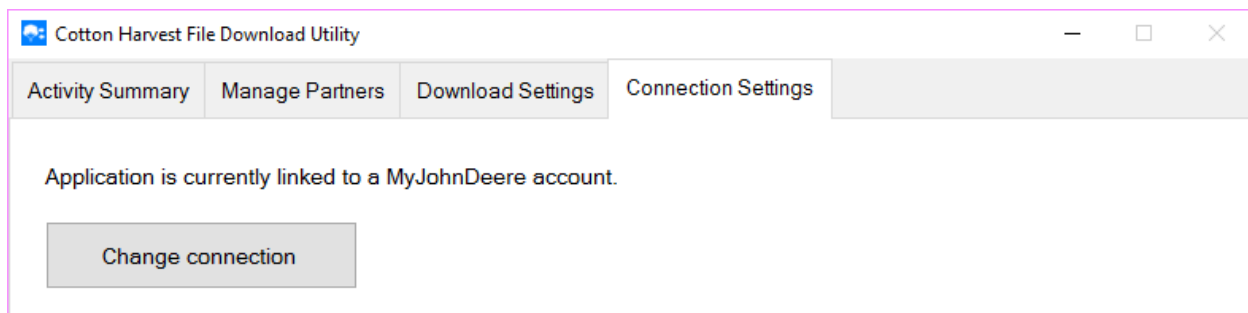


The screenshot shows the 'Cotton Harvest File Download Utility' window with the 'Download Settings' tab selected. The window has a title bar with standard minimize, maximize, and close buttons. Below the title bar is a tabbed interface with four tabs: 'Activity Summary', 'Manage Partners', 'Download Settings' (which is active), and 'Connection Settings'. The 'Download Settings' tab contains two main sections. The first section, 'Download Frequency', has a label 'Files should be downloaded' followed by a dropdown menu set to 'at specific time each day'. Below this is a label 'Download files daily at' followed by a time input field set to '8:00:00 AM' with up and down arrow buttons. The second section, 'Download location', has a label 'Current download folder:' followed by the text 'C:\CottonDownloads'. Below this is a 'Select Folder' button. At the bottom of the window, there is a checkbox labeled 'Automatically start application on system startup' which is checked.

Download settings are automatically saved as they are changed.

## Managing Connection Settings

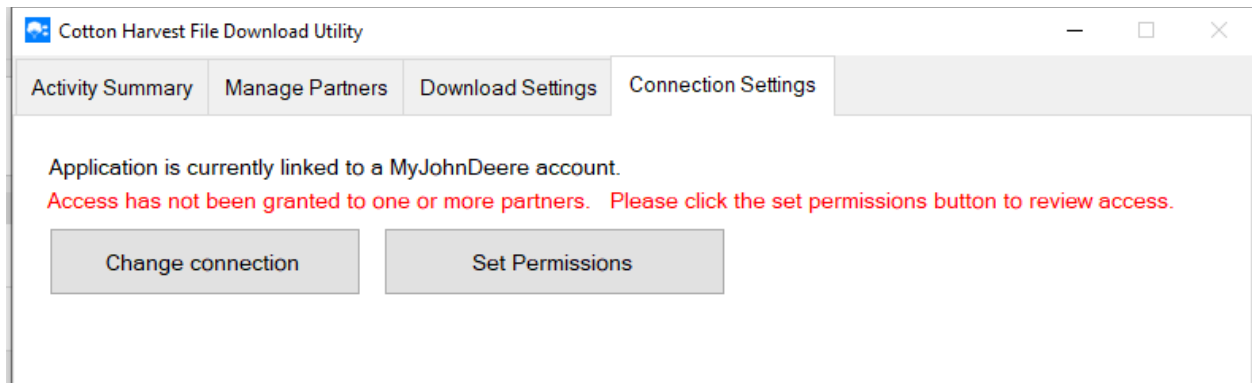
The connection settings screen can be used to update the link to MyJohnDeere by clicking the *Change connection* button.



The screenshot shows the 'Cotton Harvest File Download Utility' window with the 'Connection Settings' tab selected. The window has a title bar with standard minimize, maximize, and close buttons. Below the title bar is a tabbed interface with four tabs: 'Activity Summary', 'Manage Partners', 'Download Settings', and 'Connection Settings' (which is active). The 'Connection Settings' tab contains a message 'Application is currently linked to a MyJohnDeere account.' and a 'Change connection' button.

If you see the *Set Permissions* button and the accompanying red message, then that indicates you have partner organizations that you have not given the app access to yet. Clicking *Set Permissions* will open a browser to your My John Deere connections page to select which partners you want the app to have access to.





## Partner Access Levels

Each partner (producer) that the app will retrieve data from will need to grant your organization (gin) the access levels set as shown in the screen capture on the next page. If the partner does not grant you these minimum access levels, the app will not be able to retrieve their files. Partner invitations initiated from the utility will default these requested access levels in the partner invitation.

## Accept Partner Invitation



### Grant access to a partner.

Please select the access and permissions you would like to give to *Bohn Technology Solutions*.

#### Equipment

##### EQUIPMENT

**Requested Access Level** - 1 +

##### 1 View Equipment

Ability to view equipment details, including location, driving directions, alerts, offsets, maintenance plans and landmarks.

[Show More](#)

##### 2 Edit Equipment

Ability to add equipment, edit equipment name, offsets, terminal settings, geofences and curfews, and maintenance plans.

[Show More](#)

##### 3 Manage Equipment

Ability to delete equipment, transfer terminals, and assign terminals to machines.

[Show More](#)

Also grant...

##### ☐ Remote Display Access

Ability to remotely view compatible John Deere displays.

[Show More](#)

##### ☐ Setup File Creator, Products, and Wireless Data Transfer

Ability to manage and send/receive files with a machine.

[Show More](#)

#### Organization Management

##### ORGANIZATION MANAGEMENT

**Requested Access Level** - 1 +

##### 1 View Staff, Operators, and Partners

Ability to view organization staff, operators, and partners, including access levels.

[Show More](#)

##### 2 Manage Staff, Operators, and Partners

Ability to add, edit, and delete staff, operators, and partners.

[Show More](#)

Also grant...

##### ☒ Share Organization Data with Connected Software Companies - Requested Access Level

Ability to connect to and share this organizations data to Connected Software Companies. To see a list of available connections, visit the Connections tool.

#### Locations

All Fields

##### LOCATIONS (ALL FIELDS)

**Requested Access Level** - 3 +

##### 1 View Locations

Ability to view products and locations including driving directions, boundaries, and tracks.

[Show More](#)

##### 2 Analyze Production Data

Ability to view production/agronomic data.

[Show More](#)

##### 3 Manage Locations & Production Data

Ability to edit and delete locations, products, and production/agronomic data (including yield).

[Show More](#)

#### Work

##### WORK AND CROP PLANS (ALL FIELDS)

**Access Level** - 0 +

##### 1 View Work and Crop Plans