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How to Install McQuay ServiceTools™ for MicroTech II™ Applied Air Handling Unit Controllers and Johnson Controls M-Tool on the Same Computer

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IMPORTANT

Once both tools are installed on the same machine, and one tool is uninstalled, the other tool may not work and may need to be re-installed.

General Information

McQuay ServiceTools™ for MicroTech II™ Applied Air Handling Unit Controllers is compatible with Johnson Controls M-Tool. However, since both tools share several files, special installation instructions may be required. This document describes proper installation of the tools so that both programs run correctly.

If you already have ServiceTools but not M-Tool installed on your PC, proceed to the Installing McQuay ServiceTools First section. If you are installing ServiceTools version 2.0 or greater on a PC that already has M-Tool software, continue with the installation by accepting all defaults. If you are installing a ServiceTools version prior to 2.0, proceed to the Installing Johnson Controls M-Tool First section. If you have experienced difficulties associated with the installation of either one or both programs, proceed to the Removing ServiceTools and M-Tool from your PC section.

Installing McQuay ServiceTools First

ServiceTools Installation Settings

When ServiceTools is installed on a PC that has never had ServiceTools or M-Tool installed, the default values for folders proposed by the installation program are:

Installation folder

C:\Program Files\McQuay ServiceTools\MicroTech II Applied

Shared files folder

C:\Program Files\McQuay ServiceTools\MicroTech II Applied

Database folder

C:\Documents and Settings\All Users\Application Data\M-Data\Database

Based on the folders chosen by the user, the following registry key values are initialized under HKEY_LOCAL_MACHINE\SOFTWARE\JOHNSON CONTROLS (the default values are shown):

KeyValue

System Tools\Path	<i>C:\Program Files\McQuay ServiceTools\MicroTech II Applied</i>
CommworX\Settings\Path	<i>C:\Program Files\McQuay ServiceTools\MicroTech II Applied\CommworX</i>
M-Data\Database Directory	<i>C:\Documents and Settings\All Users\Application Data\M-Data\Database</i>
M-Data\Path	<i>C:\Documents and Settings\All Users\Application Data\M-Data</i>
M-Shared Components	<i>C:\Program Files\McQuay ServiceTools\MicroTech II Applied\M-Shared Components</i>

M-Tool Installation Settings

M-Tool is installed over the existing ServiceTools.

For the **installation** folder, the M-Tool installation program looks in the registry and uses the path recorded under "System Tools\Path" as the default value. Change the default value for the **installation** folder to avoid having M-Tool installed in the same folder as ServiceTools. Change the M-Tool installation folder per the following example:

C:\Program Files\Johnson Controls\System Tools

For the **database** folder, the M-Tool installation will display the following default:

C:\Documents and Settings\All Users\Application Data\Johnson Controls\M-Data Database

All new Project Builder databases are created in this folder. To verify that ServiceTools continues to work as it did prior to installing M-Tool, change the folder location to:

C:\Documents and Settings\All Users\Application Data\M-Data\Database

This is the directory previously installed by ServiceTools where the site database and the firmware are stored.

Use the **ServiceTools Sitebook** (no login ID displayed.) It is still able to access sites created for ServiceTools (prior to the installation of M-Tool.) The new sites created for M-Tool are still available for ServiceTools. The Shared Files directory is no longer displayed and can only be selected in the first installation of either tool. Subsequent installs use the directory as set in the first install.

As a result of M-Tool installation and the recommended user actions, the registry keys will be updated as follows:

KeyValue

System Tools\Path	<i>C:\Program Files\Johnson Controls\System Tools</i>
Commworx\ Settings\Path	<i>C:\Program Files\Johnson Controls\CommworX</i>
M-Data\Database Directory	<i>C:\Documents and Settings\All Users\Application Data\M-Data\Database</i>
M-Data\ Path	<i>C:\Documents and Settings\All Users\Application Data\M-Data</i>
M-Shared Components	<i>C:\Program Files\McQuay ServiceTools\MicroTech II Applied\M-Shared Components</i>

Installing Johnson Controls M-Tool First

ServiceTools Version 2.0 or Later

The ServiceTools version 2.0 installation CD has been modified to enhance compatibility with M-Tool. If M-Tool is already installed on your PC and you are installing ServiceTools version 2.0 or later, proceed with the installation by accepting all defaults. The following instructions pertain to the installation of ServiceTools versions prior to 2.0.

Effects of Installing M-Tool First

The M-Data\Path that ServiceTools is expecting when downloading is C:\Documents and Settings\All Users\Application Data\M-Data. However, when M-Tool is installed, this path is changed to C:\Documents and Settings\All Users\Application Data\ Johnson Controls\M-Data. You must modify the script files used for downloading to include this new path. These files must be changed every time a new version of MicroTech II Rooftop or Self-Contained application software is installed on your PC. Failure to modify this path in the following files will result in an error during downloading.

- Boot.scp
- DictionaryAndClasses.scp
- Firmware.scp
- Main.scp
- Startup.scp

These files can be found in the following directories:

- C:\MicroTech II Standard\RTU App 100
- C:\MicroTech II Standard\RTU App 200
- C:\MicroTech II Standard\SCU App
- C:\MicroTech II Specials\<PartNumber>

Note: This step can be avoided by installing ServiceTools first.

M-Tool Installation Settings

When M-Tool is installed on a PC that has never had M-Tool or ServiceTools installed previously, the default values for folders proposed by the installation program are:

Installation folder

C:\Program Files\Johnson Controls\System Tools

Shared files folder

C:\Program Files\Johnson Controls

Database folder

C:\Documents and Settings\All Users\Application Data\Johnson Controls\M-Data\Database

Based on the folders chosen by the user, the following registry key values are initialized, under HKEY_LOCAL_MACHINE\ SOFTWARE\ JOHNSON CONTROLS (the default values are shown):

KeyValue

System Tools\Path	<i>C:\Program Files\Johnson Controls\System Tools</i>
Commmworx\ Settings\Path	<i>C:\Program Files\Johnson Controls\CommmworX</i>
M-Data\Database Directory	<i>C:\Documents and Settings\All Users\Application Data\ Johnson Controls M-Data\Database</i>
M-Data\ Path	<i>C:\Documents and Settings\All Users\Application Data\ Johnson Controls\M-Data</i>
M-Shared Components	<i>C:\Program Files\Johnson Controls\M-Shared Components</i>

ServiceTools Installation Settings for Versions Prior to 2.0

The following section applies when a McQuay ServiceTools version prior to 2.0 is installed over an existing installation of M-Tool.

For the **installation** folder, the ServiceTools installation program looks in the registry and uses the path recorded under "System Tools\Path" as default value. Change the default value for the installation folder to avoid having ServiceTools installed in the same folder as M-Tool. Change the ServiceTools installation folder per the following example:

C:\ Program Files\ McQuay ServiceTools\MicroTech II Applied

For the **database** folder, the ServiceTools installation displays the following default:

C:\Documents and Settings\All Users\Application Data\M-Data\Database

Accept this setting. It is a change from the original database folder installed by M-Tool (C:\Documents and Settings\All Users\Application Data\ Johnson Controls\M-Data\Database). ServiceTools requires this setting to use the correct site database and firmware.

Note that from this point forward, Project Builder databases will be created in the new folder. It is still possible to navigate to the existing databases in the old Johnson Controls\M-Data directory.

Removing ServiceTools and M-Tool from your PC

To remove either ServiceTools or M-Tool from your PC, follow the steps below.

1. Create a backup of any existing Project Builder databases, typically found at C:\Documents and Settings\All Users\Application Data\Johnson Controls\M-Data\Database\<your project> and/or C:\Documents and Settings\All Users\Application Data\M-Data\Database\<your project>. Copy <your project> and subdirectories to a safe location.
2. Go to Start->Settings->Control Panel->Add/Remove Programs and uninstall those components listed below, if present. Choose "Yes" and "Yes to All" at all prompts.
 - ServiceTools
 - Johnson Controls System Tools 5.00 build c17 (or equivalent)
 - Johnson Controls BACnet® OPC Server - 2.2 c17 (or equivalent)
 - MicroTech II 1.0 (or equivalent)
 - BACnet OPC Server for OEM - 2.1 (or equivalent)
3. Use Windows Explorer™ and manually delete C:\Documents and Settings\All Users\Application Data\Johnson Controls, and everything beneath it. This will delete old projects, databases, and dictionary.
4. Use Windows Explorer and manually delete C:\Documents and Settings\All Users\Application Data\M-Data, and everything beneath it. This will delete old projects, databases, and dictionary.
5. Create a backup of existing HTML files (if needed) prior to continuing this step. Use Windows Explorer and manually delete C:\MicroTech II, and everything beneath it. This applies to older ServiceTools installs. If you have a newer ServiceTools install, manually delete C:\Program Files\McQuay ServiceTools\MicroTech II Applied, and everything beneath it.
6. In Windows Explorer, perform a search for all of the files listed below. They are usually found in the C:\WINNT\system32 or C:\Windows\System directory. If found, they should be manually deleted. Please note that some older versions of Project Builder may have installed additional files of a similar naming convention. They should also be deleted.
 - jcibacapi200.dll
 - jcioem.dll
 - jcios200.dll

- jcmutil.dll
- jcpass.dll
- jcphonebook.dll

CAUTION

Follow the next step carefully. Removing incorrect registry items may affect other programs that are installed on your PC. We recommend that you save your PC's registry before manually changing it. To do this, export the registry (Registry->Export Registry File) while in the Registry Editor before completing Step 7. Perform a Registry-> Import Registry File to get back to your original registry if any programs begin to fail after your editing.

Note: If you have access to IT support, it is suggested that you contact them if necessary to assist with step 7 since it could affect other programs installed on the PC.

7. Open the registry for your workstation by going to Start->Run and type in "regedit" when the Run dialog pops up. Once the registry dialog has opened, do an Edit->Find and search the items below. Verify that KEYS, VALUES, and DATA are checked. "Match whole string only" should be unchecked. If you find the following items, delete them.
 - Johnson Controls (delete folders having this text "BACnet OPC Alarm Event Server by Johnson Controls" or "Johnson Controls Project Database." Also delete any "Johnson Controls" directories that apply to M-Tool.)
 - jcibacapi200.dll
 - jcioem.dll
 - jcios200.dll
 - jcmutil.dll
 - jcpass.dll
 - jcphonebook.dll
 - MicroTech II (Note that other installs may reference this name. Verify that the MicroTech registry item applies to ServiceTools for Applied Air Handling Controllers.)

Note: It is suggested that you perform a partial word search such as "Johnso" or "MicroT" since some operating systems truncate directory names to 8 characters (e.g. Johnso~1 or MicroT~1.)

8. Close the registry.
9. Reboot workstation (not required, but suggested.)
10. Proceed with your ServiceTools install.

This document contains the most current product information as of this printing. For the most current product information, please go to **www.mcquay.com**.



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