

Controller Configuration Tool (CCT) Installation Instructions

File View Tools Transfer Settings Help

VAV Single Duct Application Configure Simulate Commission Select System Define Hardware Sideloop

Item	Default Value	Standard Name
Setpoint/Miscellaneous		
Minimum Flow Determination		
CLDWN-MINFLOW	200.0 cfm	Cooldown Min Flow
CLD-MINFLOW	0.0 cfm	Cooling Min Flow
CLOUNOCC-MINFLOW	0.0 cfm	Unocc Cooling Min Flow
HTG-MINFLOW	0.0 cfm	Heating Min Flow
HTGUNOCC-MINFLOW	200.0 cfm	Unocc Heating Min Flow
MINFLOWCO2-PB	400.0 ppm	Proportional Band
MINFLOWCO2-SP	700.0 ppm	Setpoint
OCC-LEVEL	0.0	Occupancy Level
WU-MINFLOW	200.0 cfm	Warmup Min Flow
Occupancy Mode Determination		
EFF-OCC	Occupied	Effective Occupancy

Not Assigned | System Capacity 40% | System Info | N/E Passthru | Disconnected | Configuration | Classic View | 10.4 / Firmware 8.0

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Contents

Document introduction.....	3
Summary of changes.....	3
CCT documentation.....	3
Controller Tool help.....	4
Supported operating systems.....	4
Desktop operating systems.....	4
Server operating systems.....	4
Prerequisites.....	5
Upgrading CCT and FX-PCT software.....	5
Uninstalling FX-PCT release 10.2 or earlier software.....	5
Uninstalling CCT release 10.2 or earlier software.....	6
Upgrading FX-PCT and CCT release 10.3 software.....	6
Installing and licensing the CCT software.....	6
CCT custom installation and licensing.....	6
CCT default installation and licensing.....	7
Troubleshooting.....	9
Software terms.....	9
Product warranty.....	10
Patents.....	10

Document introduction

Use this document to install or upgrade Controller Configuration Tool (CCT) software and field controller package files.

To order CCT software, specify the part number TL-CCT-0.

① Note:

- If you have *Metasys*® CCT or *Facility Explorer*™ Programmable Configuration Tool (FX-PCT) Release 10.2 software or earlier installed on your computer, you must first uninstall it before installing CCT Release 10.3 or later. To determine what release you are using, go to **Help > About Tool** in the tool. The release number is displayed next to **Tool Version**.
- If you have CCT or FX-PCT software at Release 10.3 installed on your computer, you can upgrade directly to CCT Release 13.0 or above.
- You are required to license both CCT software and field controller package files at Release 13.0 and later. For further information, see [Installing and licensing the CCT software](#).

CCT provides the option to work within and switch between 10.2 and 10.4 release modes. Refer to the *User Interface* section in the *Controller Tool Help (LIT-12011147)* for procedures. You can view Controller Application Files (CAFs) created at an earlier release of CCT or FX-PCT. If you want to edit these files, you need to upgrade them to a available release mode. For information on how to upgrade CAFs, refer to the *Upgrading System Files* section in *Controller Tool Help (LIT-12011147)*.

Summary of changes

The following information is new or revised at this release:

- Updated desktop operating systems and server operating systems in [Supported operating systems](#).

CCT documentation

The following table lists documents related to CCT.

Table 1: CCT Documentation

For Information On	See Document
Features of CCT	<i>Controller Configuration Tool (CCT) Catalog Page (LIT-1900386)</i>
Using the CCT software	<i>Controller Tool Help (LIT-12011147)</i>
Using the <i>Metasys</i> ® System Site Management Portal	<i>Metasys® Site Management Portal Help (LIT-1201793)</i>
Strategies for Replacing Legacy N2 Controllers	<i>Modernization Guide for N2 Controllers - Metasys (LIT-12012005)</i>
Using Software Manager and software licensing	<i>Software Manager Help (LIT-12012389)</i>

Controller Tool help

The *Controller Tool Help (LIT-12011147)* is the user's guide to the CCT software. Use the Tool to configure, simulate, and commission the following:

- Advanced Application Field Equipment Controllers (FACs)
- Advanced Application Programmable Controllers (PCAs)
- Expansion Input/Output Modules (PCXs)
- Field Equipment Controllers (FECs)
- General Purpose Application Controllers (CGMs)
- General Purpose Programmable Controllers (PCGs)
- Input/Output Modules (IOMs)
- Programmable Variable Air Volume Box Controllers (PCVs)
- SNC Series network engines
- Variable Air Volume Controllers (VAVs)
- Variable Air Volume Modular Assembly Controllers (VMAs)
- Variable Air Volume Terminal Equipment Controllers (CVMs)

The *Controller Tool Help (LIT-12011147)* provides guidance on communication switching, N2 point mapping, and N2 modules for N2 compatible controllers.

Supported operating systems

The following operating system and SQL Server configurations are supported for CCT.

Desktop operating systems

- Windows® 10 Pro and Windows 10 Enterprise Editions (version 1809 or later) (64-bit)
- Windows® 8.1 Pro and Windows 8.1 Enterprise Editions with Update (KB2919355) (64-bit)
- Windows® 7 Professional, Enterprise, and Ultimate Editions with SP1 (64-bit)
- Windows® Server® 2016 with Update (KB4489890) (64-bit)
- Windows® Server® 2012 R2 with Update (KB2919355) (64-bit)
- Windows® Server® 2012 with Update (KB3172614) (64-bit)

Server operating systems

- SQL Server 2017 Standard and Express (64-bit)

- SQL Server 2016 Standard and Express SP2 (64-bit)
- SQL Server 2014 Standard and Express SP3 (64-bit)
- SQL Server 2012 Standard and Express SP4 (64-bit)

Prerequisites

The following prerequisites are required for installing CCT:

- .NET Framework version 3.5 SP1, 4.0 or 4.6.1
- Private Java Runtime Environment (JRE)
- Adobe Reader® (required for printing in CCT)

Upgrading CCT and FX-PCT software

About this task:

① Note:

- If you have CCT or FX-PCT Release 10.2 software or earlier installed on your computer, you must first uninstall it before installing CCT Release 10.3 or later. To uninstall FX-PCT Release 10.2 software see [Uninstalling FX-PCT Release 10.2 or Earlier Software](#). To uninstall CCT Release 10.2 software see [Uninstalling CCT Release 10.2 or Earlier Software](#).
- If you have CCT or FX-PCT software at Release 10.3 installed on your computer, you can upgrade directly to CCT Release 13.0 or later. For details on upgrading FX-PCT and CCT Release 10.3 software see [Upgrading FX-PCT Release 10.3 Software](#).
- CCT provides the option to work within and switch between 10.2 and 10.4 release modes by default. Refer to the *User Interface* section in the *Controller Tool Help (LIT-12011147)* for procedures. CAFs created at an earlier release of CCT or FX-PCT can be viewed only, but can be upgraded to an available release mode if full editing is required. For information on how to upgrade CAFs, refer to the *Upgrading System Files* section in *Controller Tool Help (LIT-12011147)*.

Uninstalling FX-PCT release 10.2 or earlier software

Perform these steps before installing or upgrading the software to Release 13.1.

1. On the Start menu, click **Control Panel**.
2. Click **Programs and Features**.
3. In the list of programs, right-click **FX-PCT** and click **Uninstall**. The **Welcome** window appears.
4. Click **Next**. The **Uninstall Databases** window appears.
5. Click **Next**. The **Remove the Program** window appears.

6. Click **Remove**. The **Setup Wizard** uninstalls the program. When finished, the **Setup Wizard Completed** window appears.
7. Click **Finish**. At the prompt to restart your computer, choose to restart now or later.

To install CCT Release 13.1, go to [Installing and licensing the CCT software](#).

Uninstalling CCT release 10.2 or earlier software

Perform these steps before installing or upgrading the software to Release 13.1.

1. On the Start menu, click **Control Panel**.
2. Click **Programs and Features**.
3. In the list of programs, right-click **Metasys CCT 10.2** and click **Uninstall**. The **Welcome** window appears.
4. Click **Next**. The **Uninstall CCT Databases** window appears.
5. Click **Next**. The **Remove the Program** window appears.
6. Click **Remove**. The **Setup Wizard** uninstalls the program. When finished, the **Setup Wizard Completed** window appears.
7. Click **Finish**. At the prompt to restart your computer, choose to restart now or later.

To install CCT Release 13.1, go to [Installing and licensing the CCT software](#).

Upgrading FX-PCT and CCT release 10.3 software

About this task:

Perform these steps to upgrade to software Release 13.1.

1. Obtain the product installation file.
2. Double-click the **JohnsonControlsControllerConfigurationTool_13.1** file. The **Johnson Controls Controller Configuration Tool 13.1 Setup** window appears.
3. If you are using Windows credentials to login to the SQL Server, click **Upgrade**. If you are not using Windows credentials, unselect the **Windows Authentication** check box and click **Upgrade**.
4. Click **Finish** when the **Complete!** window appears.

Installing and licensing the CCT software

CCT custom installation and licensing

About this task:

1. Obtain the product installation file.

2. Double-click the **JohnsonControlsControllerConfigurationTool_13.1.exe** file. The **Controller Configuration Tool 13.1 Setup** window appears.
3. Click **Custom**. The SQL Server Selection window appears from the **Database** tab.
4. If you are using Windows credentials, select the **Windows Authentication** check box. If you are not using Windows credentials, unselect the **Windows Authentication** check box, and enter your SQL username and password.
- ① **Note:** When you install CCT on a computer running SQL Server, the startup type of the SQL Server Browser service must be set to **Automatic**. The SQL Server Browser service must be running when you start CCT.
5. Click the **General** tab. The **Install Path** window appears.
6. To install CCT in the specified destination folder, click **Install**. To install CCT in a different location, click **Browse**, select the location, and then click **Install**. All prerequisite software for CCT and the Software Manager are installed first, then the CCT software is installed. A progress bar window appears.
7. Click **Finish** when the **Complete** window appears.
8. Obtain field controller packages to install. To import a field controller package, double-click on the package collection file or use the **Package Importer**, located in the Windows **Start** menu. The **Package Importer** displays the message `Finished importing` when the import is complete.
9. To license CCT, run Software Manager from the Windows **Start** menu. Locate CCT in the Software Manager **License Inventory** and then click **Activate New** in the **Choose Action** menu. See *Software Manager Help (LIT-12012389)* for additional details on activating licenses.
10. To license field controller packages, run Software Manager from the Windows **Start** menu. Use the **Add License** button in Software Manager if the field controller package is not listed in the Software Manager **License Inventory**. If the field controller package is listed in Software Manager, click **Activate New** in the **Choose Action** menu. See *Software Manager Help (LIT-12012389)* for additional details on activating licenses.
- ① **Note:**
 - Unlike CCT software, field controller package files are not automatically added to the Software Manager **License Inventory** when they are installed. Field controller packages are listed in Software Manager only after they have been initially licensed.
 - If you do not license the CCT software after installation, the **Software License Check** appears when you access CCT for the first time. Field controllers without a licensed field controller package are set to **Artificial Field Device** or **Artificial IO Device** in CCT.

CCT default installation and licensing

About this task:

Note:

- The default installation is available if you want to accept all default options. If you want to customize your installation options, see the [CCT custom installation and licensing](#) section.
- All prerequisite software for CCT and the Software Manager are installed during the CCT installation process.

1. Obtain the product installation file.
2. Double-click the **JohnsonControlsControllerConfigurationTool_13.1.exe** file. The **Johnson Controls Controller Configuration Tool 13.1 Setup** window appears.
3. Click **Install**. All prerequisite software for CCT and the Software Manager are installed first, then the CCT software is installed.
4. Click **Finish** when the **Complete** window appears.
5. Obtain field controller packages to install. To import a field controller package, double-click on the package collection file or use the **Package Importer**, located in the Windows **Start** menu. The **Package Importer** displays the message *Finished importing* when the import is complete.
6. To license CCT, run Software Manager from the Windows **Start** menu. Locate CCT in the Software Manager **License Inventory** and then click **Activate New** in the **Choose Action** menu. See *Software Manager Help (LIT-12012389)* for additional details on activating licenses.
7. To license field controller packages, run Software Manager from the Windows **Start** menu. Use the **Add License** button in Software Manager if the field controller package is not listed in the Software Manager **License Inventory**. If the field controller package is listed in Software Manager, click **Activate New** in the **Choose Action** menu. See *Software Manager Help (LIT-12012389)* for additional details on activating licenses.

Note:

- Unlike CCT software, field controller package files are not automatically added to the Software Manager **License Inventory** when they are installed. Field controller packages are listed in Software Manager only after they have been initially licensed.
- If you do not license the CCT software after installation, the **Software License Check** appears when you access CCT for the first time. Field controllers without a licensed field controller package are set to **Artificial Field Device** or **Artificial IO Device** in CCT.

Troubleshooting

Problem	Solution
<p>Both FX-PCT and CCT do not function properly when you downgrade to an earlier version (for example, you uninstall Release 10.1 and install Release 10.0).</p>	<p>To resolve this issue, follow the below procedures to complete a clean installation:</p> <p>For CCT:</p> <ol style="list-style-type: none"> 1. Uninstall the current version of CCT. 2. Back up the data found in the CCT folder: <ul style="list-style-type: none"> - C:\ProgramData\Johnson Controls\MetasysIII\ 3. Delete the CCT folder from the following locations: <ul style="list-style-type: none"> - C:\Program Files (x86)\Johnson Controls\ - C:\ProgramData\Johnson Controls\MetasysIII\ 4. Back up the data found in the DataAccess folder: <ul style="list-style-type: none"> - C:\ProgramData\Johnson Controls\MetasysIII\ 5. Delete the DataAccess folder from the following location: <ul style="list-style-type: none"> - C:\ProgramData\Johnson Controls\MetasysIII\ 6. Install the earlier version of CCT. 7. Restart your computer. <p>For FX-PCT:</p> <ol style="list-style-type: none"> 1. Uninstall the current version of FX-PCT. 2. Back up the data found in the PCT folder: <ul style="list-style-type: none"> - C:\Program Files (x86)\Johnson Controls\ 3. Delete the PCT folder from the following location: <ul style="list-style-type: none"> - C:\Program Files (x86)\Johnson Controls\ 4. Back up the data found in the DataAccess folder: <ul style="list-style-type: none"> - C:\ProgramData\Johnson Controls\MetasysIII\ 5. Delete the DataAccess folder from the following location: <ul style="list-style-type: none"> - C:\ProgramData\Johnson Controls\MetasysIII\ 6. Install the earlier version of FX-PCT. 7. Restart your computer.

Software terms

Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Patents

Patents: <http://jciapat.com>