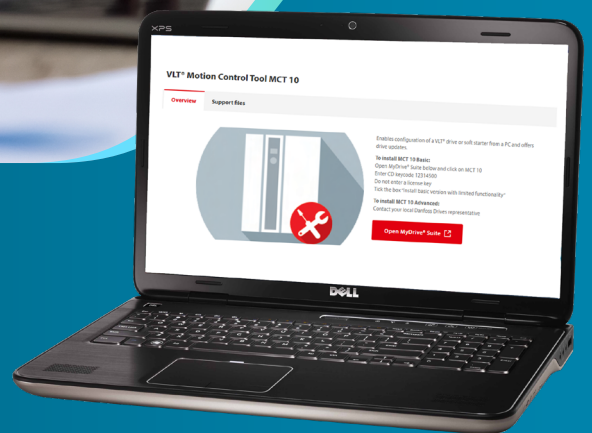


xylem



MCT-10 Setup Software Tutorial



MCT-10 setup software tutorial

MCT-10 Software is available to Xylem customers for access to AQUAVAR® and Technologic® Intelligent Pump Controller (IPC) variable speed drives. To download MCT 10 software please start by clicking the link below:

<https://www.danfoss.com/en-us/service-and-support/downloads/dds/vlt-motion-control-tool-mct-10/>

VLT® Motion Control Tool MCT 10

Overview

Support files



Enables configuration of a VLT® drive or soft starter from a PC and offers drive updates.

To install MCT 10 Basic:

Open MyDrive® Suite below and click on MCT 10

Enter CD keycode 12314500

Do not enter a license key

Tick the box "Install basic version with limited functionality"

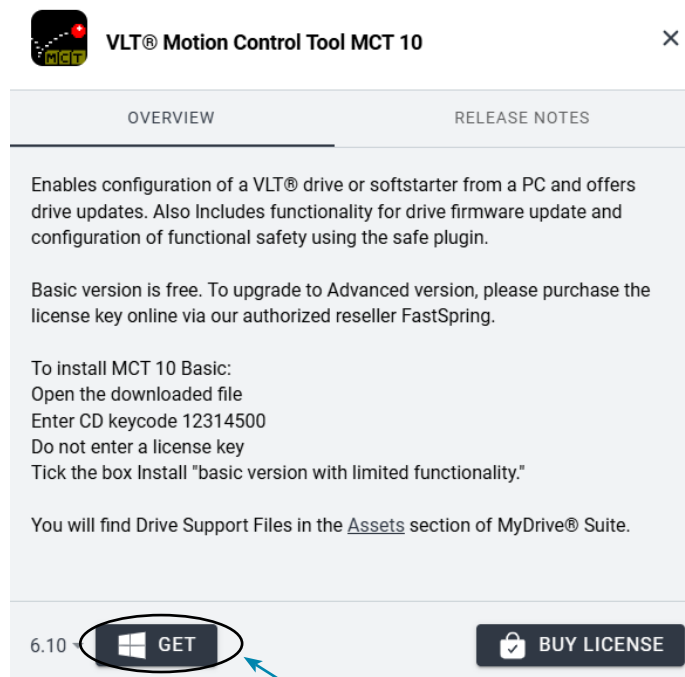
To install MCT 10 Advanced:

Contact your local Danfoss Drives representative

Open MyDrive® Suite 

(Screenshot from Danfoss.com)

1. Click here



(Screenshot from Danfoss.com)

2. Click here

Installing on a PC

When you begin the installation on your PC, you will be prompted to enter a **CD Key and License Key**.

CD key: 56926300(Xylem)

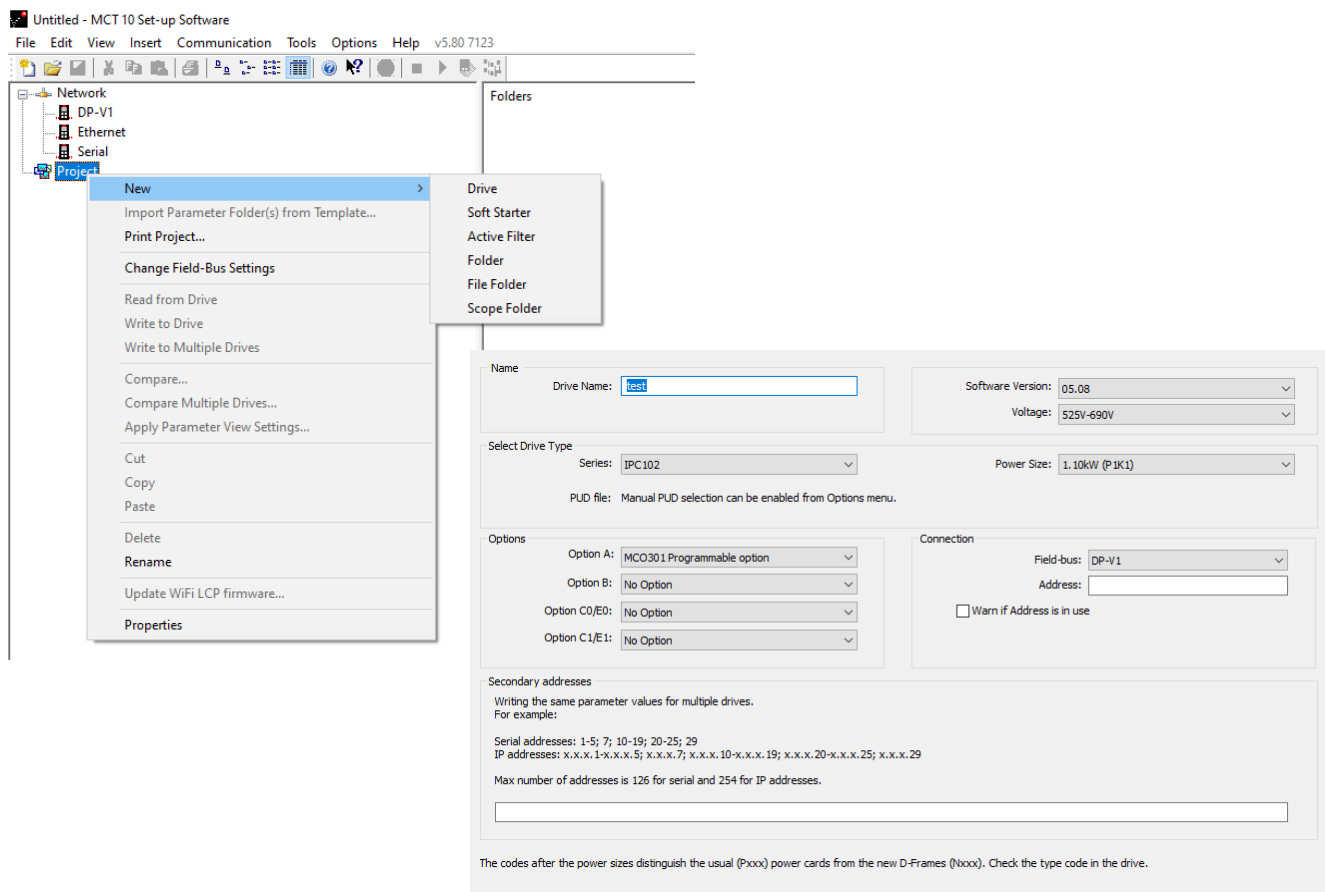
License Key: 12111111 (Xylem)

MCT-10 makes complex programming schemes much simpler for the user. A USB cable can be connected to the drive and parameter settings changed via MCT-10 will be written to the drive on the fly. Alternatively, a “project” can be created within the software where the user can edit the parameter settings without being connected to the drive. A USB cable can later be connected to the drive and the program can be downloaded. Existing VFD programming can also be uploaded and saved as projects within MCT-10. In addition, the software contains wizards to help create “Smart Logic” programs, set up cascade systems and time based actions.

Creating a project and adding a new project drive

- Open MCT-10
- Look in the upper left, right click “Project” and select “New/Drive” (you can also rename the project if you desire to)
- Name the project drives that you are creating (multiple drives can be added to a project)
- Fill out the remaining fields for the project drive that match those of the actual drive that will later be connected to (Series, Power Size, Configurable Options, Software Version, and Voltage) leave field-bus set to USB because this is how you will connect to the actual drive
- Hit the ‘OK’ button and the new project drive will now appear under the project

See below images for examples



Changing the drive parameters

Now that you have created a project drive, you can begin to manipulate the parameters. The project drive should have identical parameters to the actual drive you will connect to later if you entered the correct data when setting it up.

- Click the + next to the newly created project drive to expand the menu
- Click the + next to "All Parameters" to access the main menu parameters
- Click the + next to the main menu parameter group that you want to access
- Click the sub parameter group that the desired parameter resides in
- Double click the actual parameter of interest (under setup 1) and use the drop down menus to make your selection
- Click the "OK" button to accept the change

Saving and opening a project file (.SSP)

When you have finished editing the drive parameters you will need to save the project file. Click "File" from the tool bar at the top of the screen and then chooses "Save As" from the drop down menu. Name the file and click "Save" (it will be saved with a .SSP file extension). You can now close the program. Locate the .SSP file that you saved and open it. The project will reopen and the project drive will appear with the same parameter settings that you had programmed previously.

Writing to a drive

You can connect to the drive and either read to or write from a project file. After the project drive parameters have been set, follow the instructions listed below.

- Connect a USB cable between your drive and laptop (**battery power only**)
- Highlight the drive in the project that you want to work with
- Right click, select "Write to Drive" and wait until its finished

The connected drive will now have the same parameter settings as the project drive. You can also use MCT-10 to program a drive directly through the USB cable, without creating a project drive. To do this, connect your USB cable from the laptop to the VFD and wait until the software detects it. You will see "USB" appear under the network column. Click the + and you will see the connected drive which can now be programmed on the fly.

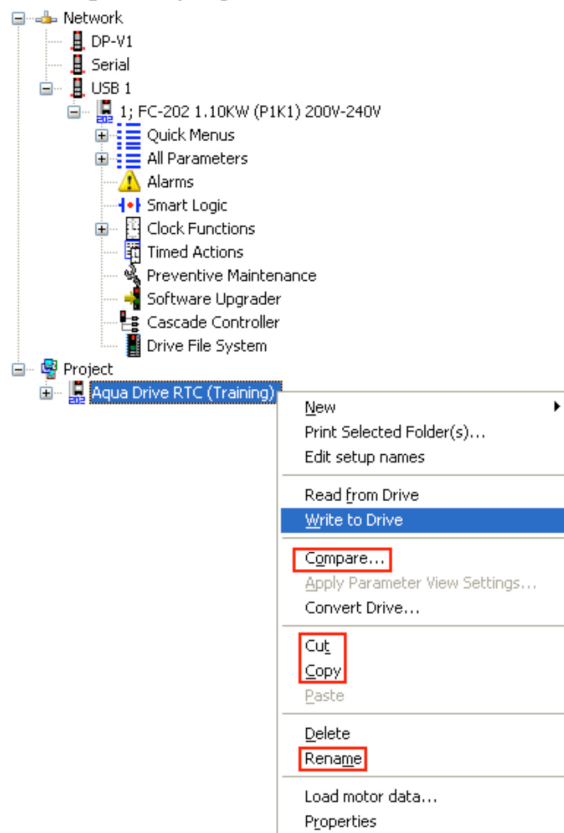
Reading from a drive

Drives that were previously programmed and operating in the field can be backed up to a MCT-10 project file. To back up a working drives parameter settings to project file, follow the instructions listed below.

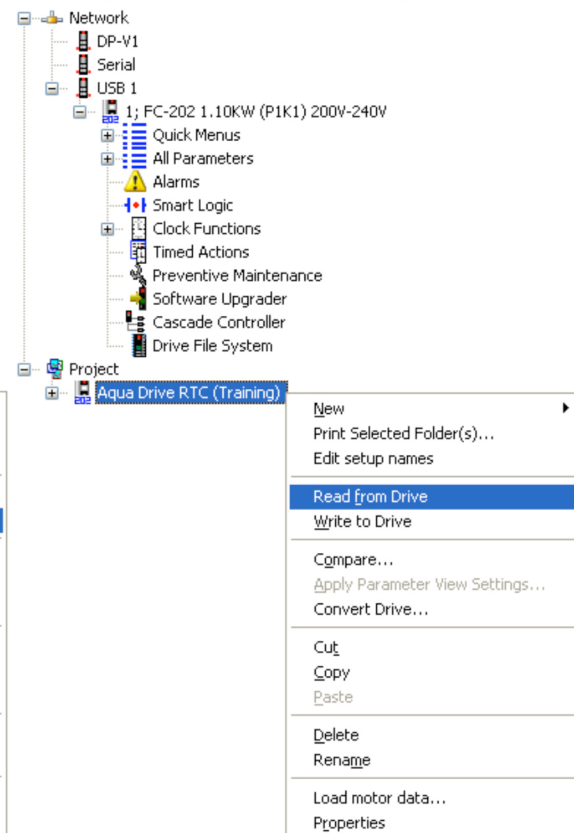
- Open MCT-10 and create a new project drive that matches the actual drive
- Highlight the project drive that has default settings
- Right click, select “Read from Drive” and wait until it’s finished

The project drive will now have the same parameter settings as the actual drive. You can save the project to your laptop and the settings will now be securely stored.

Writing from project to live VFD



Reading from live VFD to a project



This guide is just a basic introduction of MCT-10 setup software functionality, and there are many other features that have not been discussed. Take some time to explore the software and uncover some useful features on your own. Right clicking will often bring up other available options including comparisons, scope traces, copy and paste features and a whole lot more.

Notes

Notes

Xylem Product Cybersecurity

Xylem values your system security and the availability of your critical services. For more information on Xylem cybersecurity practices or to contact the cybersecurity team please visit [xylem.com/security](https://www.xylem.com/security).

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