



Product Training
MOVITOOLS® MotionStudio - Quick guide
Operating inverter with MotionStudio

AU
T02

Exclusion of liability:

This training document supplements the documentation of SEW-EURODRIVE Pty Ltd. It has been prepared to the best of our knowledge as informative document accompanying training courses. SEW-EURODRIVE Pty Ltd accepts no liability for possible errors.

The basic requirement for safe operation is that you adhere to the operating instructions of the units described in the training document. The safety regulations mentioned in the operating instructions apply. SEW-EURODRIVE Pty Ltd assumes no liability for injury to persons or damage to equipment or property resulting from non-observance of these operating instructions. In such cases, any liability for defects is excluded.

Make sure that the operating instructions are available to persons responsible for the system and its operation as well as to persons who work independently on the unit. You must also ensure that the documentation is legible.

Other documents:

- § Operating instructions, System manuals, Addendums to the operating instructions
- § Descriptions of application modules
- § Manuals (option cards, IPOSplus®, interfaces, etc.)

Please do not hesitate to contact the DriveAcademy® if you have any questions or suggestions.

DriveAcademy®
Product Training

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Meaning of icons used in the workbook:



Operating instructions



Important information



Special tip



Procedure for diagnostics and troubleshooting



Practical exercise



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1 General



Why MotionStudio?

Because MotionStudio provides the user with a universal and comfortable software that can be used for any engineering purposes regardless of the unit.

MOVITOOLS® MotionStudio is a software package with all the tools required for

- § startup,
- § parameterization,
- § data backup,
- § diagnostics and visualization, as well as
- § programming

for drive electronics made by SEW-EURODRIVE in **online** and **offline mode**.

In **offline mode**, you can project, startup and parameterize units at your workplace.

Why online/offline mode?

Offline mode for project planners at their workplace:

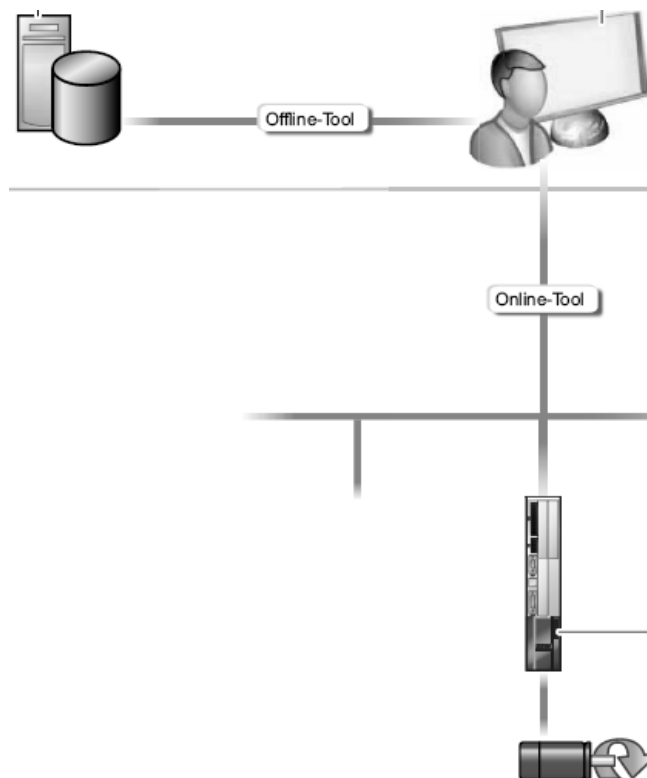
Changes applied with **offline tools only** affect the RAM.

- § Save your project in order to store the changes on your PC's hard drive.
- § Perform a "Download" if you intend to transfer the changes to your unit.

Online mode for maintenance, startup and service engineers

Changes applied with **online tools only** affect the unit.

- § Perform an "Upload" in order to transfer the changes to the RAM.
- § Save your project in order to store the changes on your PC's hard drive.



**This workbook only covers the online mode.
It is based at MotionStudio Version 5.5.0.2 and later**



Additional information

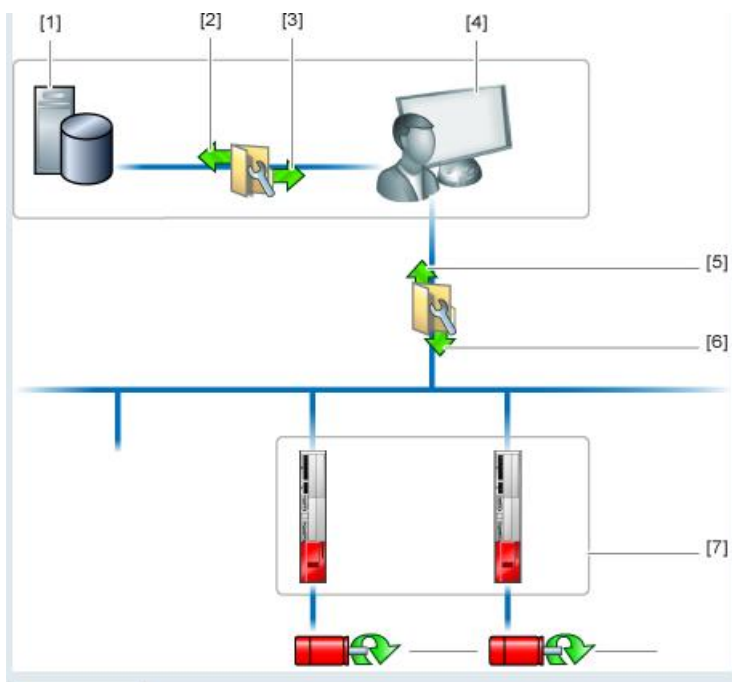
For further information on the tools, refer to the MOVITOOLS® MotionStudio manual available via www.sew-eurodrive.de.

1.1 USB driver for the USB11A interface adapter

Follow the instructions below to install the USB driver for the USB11A interface adapter.

- Make sure that you have local administrator rights on your PC.
- Insert the MOVITOOLS® MotionStudio installation CD (Software ROM 7) into the drive of your PC.
- Connect the USB11A interface adapter to a free USB port on your PC.
- Your PC will detect the new hardware and launch the hardware wizard.
- Follow the instructions of the hardware wizard to install the first driver file.
- Repeat the previous step to install the second driver file.

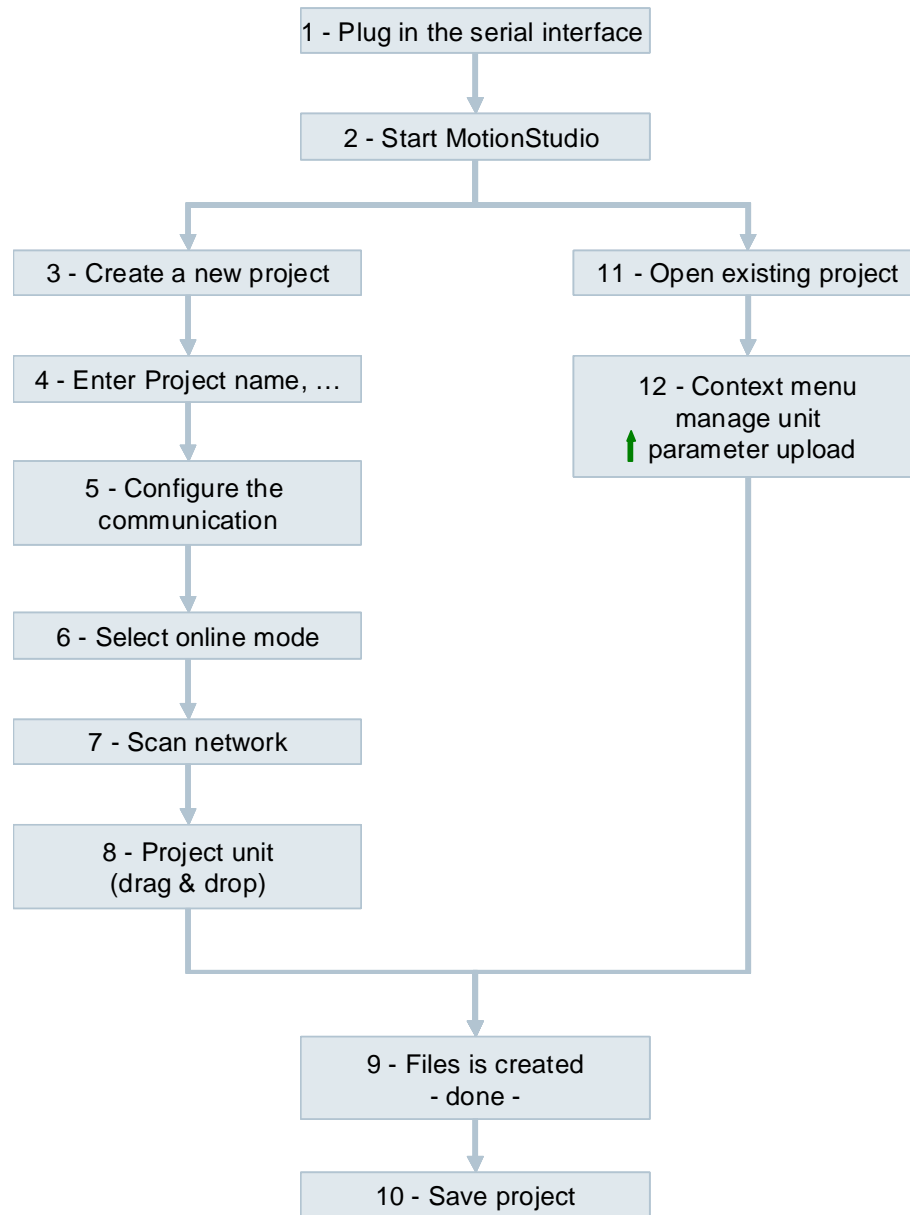
1.2 Managing unit parameters (phases)



Phase	Designation	Description
1	Load	For every unit [7] that you configure, MOVITOOLS® MotionStudio creates a parameter file based on the standard parameters for this unit type. MOVITOOLS® MotionStudio stores this parameter file on the hard disk [1] in the project directory. When you open the project, MOVITOOLS® MotionStudio loads [3] the unit parameters from the parameter file onto the hard disk. The content of this parameter file is transferred by MOVITOOLS® MotionStudio to the working memory.
2	Upload	Changes made using online tools affect ONLY the unit. By uploading [5], you can transfer the changes to the working memory [4].
3	Download	Changes made using offline tools affect ONLY the working memory [4]. By downloading [6], you can transfer the changes to the unit.
4	Save	The change to the working memory [4] compared to the parameter file is displayed by a mini symbol. Save your project [2]. Result: Your changes are continuously saved in the parameter files of the modified units. The mini symbol disappears.

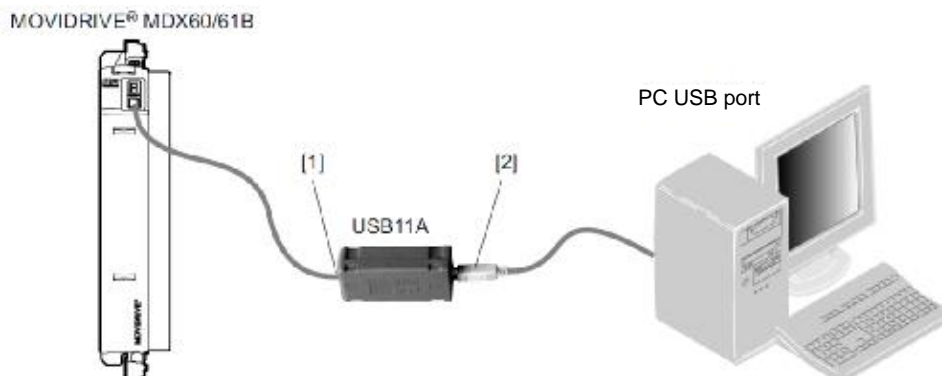
2 Workflow Backup

The drawing shows you how save parameter from inverter to file.

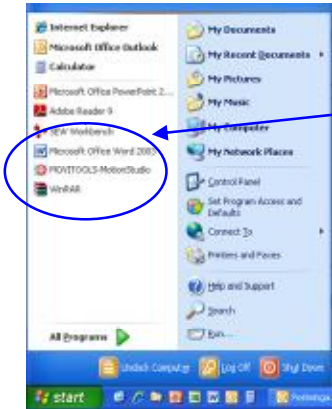


All Steps are described below:

2.1 Plug in Serial interface (i.e. USB11A)



2.2 Start MOVITOOLS-MotionStudio



Start MOVITOOLS-MotionStudio

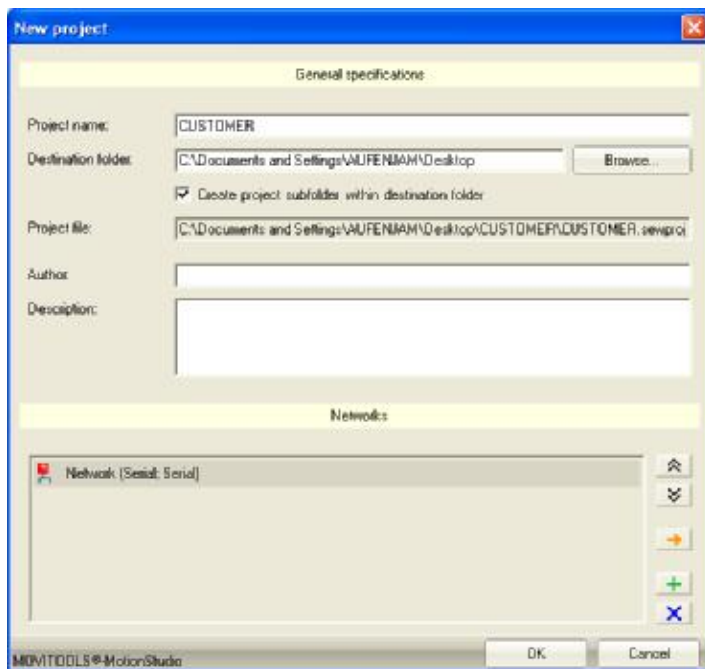
2.3 Creating a New Motion Studio Project

Motion Studio is a project based graphical user interface for commissioning, fault finding and management of single or multiple inverters.



Firstly, close the HTML help file.
Click on New project and click OK

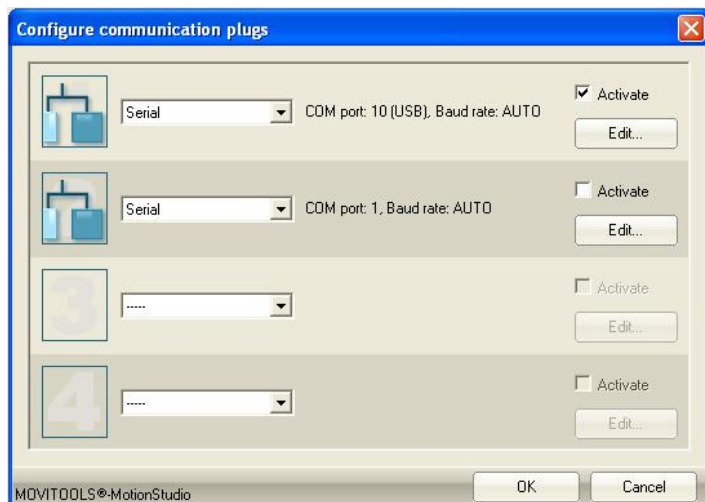
2.4 Enter Project name ...



Type in a project name => i.e. Customer or machine name.
Type in an Author and if you want a Description of you application, installation or what you want, then click the OK button

Press the button to configure the Communication interface

2.5 Configure Communication



Click on the Configure Communication Plugs icon. Then press the Edit button. Ensure that the Activate option for the appropriate COM port is ticked.



Now select the COM port that is assigned to the USB port and click OK. Then click OK on the Configure Communication Plugs window.