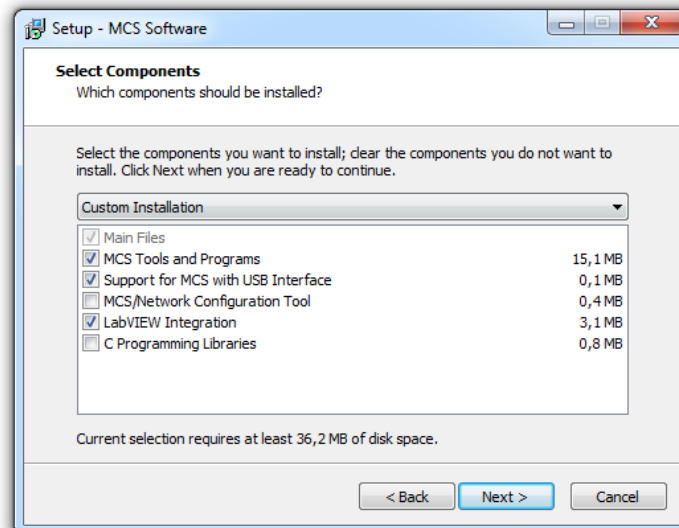


MCS SOFTWARE INSTALLATION GUIDE

Installing MCS Software

On the *MCS Software CD* you will find all software needed to use the MCS and to develop your own software. In the installer you must first select the *SmarAct* software folder where most of the files will be installed (default: C:\SmarAct). The the intaller allows to select different software components for installation:



Select *MCS Tools and Programs* to install utilities like the firmware updater and configuration tools.

If *MCS/Network Configuration Tool* is selected, the program *MCSNetworkInterfaceConfig.exe* will be installed that can be used to reset a MCS with network interface to its default configuration. If this option is selected, the installer will ask for permission to install a driver that is required by the program at the end of the installation.

Select *C Programming Libraries* to install libraries and header files for writing your own programs in C or C++ (or other languages that are compatible with the programming libraries).

For developing applications with LabVIEW select *LabVIEW Integration*. If more than one LabVIEW version is installed you can choose the version to install the LabVIEW commands in one of the next steps. To install for additional LabVIEW versions just run the installer again and select another LabVIEW version (the other software doesn't have to be installed again).

The installation of USB support drivers, needed for communicating with MCS over USB cable, can be disabled by deselecting the *Support for MCS with USB Interface* option. USB support is not needed if only MCS with network interface will be used. However, if the USB support is not installed, the software will not be able to connect to MCS with a USB interface and will show errors. If the MCS/USB support has already been installed by other SmarAct software, deselecting it will not uninstall the driver. If the option is selected, the installer will ask for permission to run the *Usb-To-Serial* driver installer at the end of the installation process. The driver can also be installed manually by running the program *CDMxxxx_Setup.exe* in the *Drivers* folder on the software CD.

From the menu above the selectable components you can select a preset. The preset *ASCII Interfaces Only* selects only the components you will need for MCS with an ASCII interface.

Where Files are Installed

The **MCS folder** is inside the **SmarAct folder** which you have selected during installation.

The *Programs* folder contains **tools and applications** for the MCS.

Documentation is installed in the *Documentation* folder in the MCS folder.

If *LabVIEW Integration* was selected in the installer the **MCS LabVIEW commands** are installed in the program folder of the selected LabVIEW version and can be dragged directly from a LabVIEW commands palette into your program. **LabVIEW programming examples** are installed in the folder *SmarAct\MCS\LabVIEW\Examples*.

The software development kit (SDK) for developing programs with the MCS C API are installed under *SmarAct\MCS\SDK* if **C Programming Libraries** is selected. This path is defined in the environment variable *MCS_SDK* which can be used in development tools to find the SDK folder.

The installer creates shortcuts to programs and documents in the *Start* menu.

Documentation

The following table describes the documents that are installed in *SmarAct\MCS\Documentation* (note: which docs are installed depends on the installer):

Document	Description
<i>AN Changes In MCS API v2.pdf</i>	An application note listing the changes in MCS API 2.0
<i>MCS Configuration Manual.pdf</i>	The manual for the MCSConfiguration.exe tool.
<i>MCS Calibrate Sensors Note.pdf</i>	Describes the MCS sensor calibration.
<i>MCS PowerSave Mode Note...pdf</i>	Describes the different sensor power-save modes.
<i>MCS Programmers Guide.pdf</i>	This manual describes the MCS application programming interface (API) for writing MCS applications in C or similar programming languages.
<i>MCS LabVIEW-Integration.pdf</i>	Notes for programming MCS applications with LabVIEW.
<i>MCS Firmware Installation Guide.pdf</i>	A manual for updating the firmware of a MCS controller.
<i>MCS Network Interface Configuration Guide.pdf</i>	Describes the configuration of MCS with network interfaces.
<i>MCS ASCII Programming Interface.pdf</i>	A programming manual for MCS controllers with ASCII commands programming interface.
<i>ASCII Terminal User Manual.pdf</i>	Manual for the ASCIITerminal.exe program.

Other documents may be installed if your product configuration requires special documentation. Please look into the installed *Documentation* folder or on the software CD under *Documentation\MCS*.

Tools and Applications for MCS

The following table lists the tools and applications that are installed if selected in the installer:

Program	Description
<i>MCSCalibrator.exe</i>	A simple tool that can be used to calibrate all channels of a MCS.
<i>MCSConfiguration.exe</i>	A tool that can be used to configure the channels of a MCS. Allows to set the sensor type for each channel. It can be used to calibrate and reference single channels. It also provides functions for advanced configuration. The document <i>MCS Configuration Manual.pdf</i> should be read before using the tool.
<i>MCSFirmwareUploader.exe</i>	Use this program to replace the firmware of an MCS controller. Read <i>MCS Firmware Installation Guide.pdf</i> for instructions.

<i>ASCIITerminal.exe</i>	A simple terminal program to send ASCII commands to MCS that support the MCS ASCII protocol.
<i>MCSNetworkInterfaceConfig.exe</i>	A (console based) program to reset MCS with network interfaces.

Uninstalling the Software

In the *SmarAct* software folder you can find an uninstaller program in *SmarAct\MCS\Uninstall* which removes all MCS software from your disk. Other *SmarAct* software is not removed.

Precision Tool Commander (PTC)

Optionally the *Precision Tool Commander* (PTC) program can be installed, which is a graphical user interface for controlling positioners. *PTC* must be installed with the installer **PTC_Installer_x.y.z.exe** which can be found on the software CD.

Earlier versions of the PTC were included in the MCS software installer. Since PTC version 2, it has its own installer.