

Release Notes for FAULHABER Motion Manager 6

Revision	Date	Change Description
V6.8	30.03.2021	<p>New:</p> <ul style="list-style-type: none"> • Support for new MC V3.0 Products <ul style="list-style-type: none"> ○ MC 3001 B RS/CO ○ MC 3001 P RS/CO ○ MC 3603 S RS/CO ○ MC 3603 S ET <p>Fixed:</p> <ul style="list-style-type: none"> • SC Configuration: Switching from special function to standard
V6.7	10.12.2020	<p>New:</p> <ul style="list-style-type: none"> • Tool to setup motor PWM filters • Tool for absolute encoder compensation • EtherCAT interface plug-in to connect to EtherCAT slaves via network adapter • Support for Multiturnencoder AEMT-12/16 L • Improvements for MC V3.0 <ul style="list-style-type: none"> ○ Support for FW version „L“ ○ Enhanced system identification ○ CAN and RS232 baudrate can be set via USB using the „Drive functions“ dialog (Communication – General) • Improvements for MC V2.x <ul style="list-style-type: none"> ○ Support for CO FW version „E“ <p>Changed:</p> <ul style="list-style-type: none"> • SC Support <ul style="list-style-type: none"> ○ Configuration workflow redesigned in Drive Functions dialog ○ Adjustments on Motor Selection Wizard ○ Better access to offline mode with virtual devices • Improved MC3 USB driver • Revised Online-Updater
V6.6.1	28.05.2020	<p>Fixed:</p> <ul style="list-style-type: none"> • Motion Manager Online-Update • Error after importing SC firmware • Special encoder configurations
V6.6	11.12.2019	<p>New:</p> <ul style="list-style-type: none"> • Improvements for MC V3.x <ul style="list-style-type: none"> ○ New Firmware Version „K“ in the installation package ○ For manual firmware update new Bix files contain also the associated xdd file for automatic import into the Motion Manager

		<ul style="list-style-type: none"> ○ Enhanced motor wizard <ul style="list-style-type: none"> ▪ Supports configuration of multiturn absolute encoders ○ MC3 sequence programs <ul style="list-style-type: none"> ▪ File size up to 16100 Byte ▪ New bit-wise XOR operator (^) ● Improvements for MC V2.x / SC <ul style="list-style-type: none"> ○ New Firmware for “22...BXT SC” and “32/42...BXT SC” in the installation package ○ SC drive functions <ul style="list-style-type: none"> ▪ Support for new BXT SC devices ○ Enhanced motor wizard <ul style="list-style-type: none"> ▪ MC2 profile parameters are set according to the selected motor ▪ Adjusted settings for SC ● Online news page shown in the “Editor” with current contents from the FAULHABER internet pages <p>Changed:</p> <ul style="list-style-type: none"> ● Motor wizard <ul style="list-style-type: none"> ○ Hall sensor adjustment for small rotary and linear motors improved ○ Optimized controller settings for linear motors ○ Motor parameters of a MCS will not be changed anymore ○ Current limit values of a SCS will not be changed anymore ● Access restriction for MC3 program sequences ● Improvements on firmware update <p>Fixed:</p> <ul style="list-style-type: none"> ● Prevent switch on of controller with unconfigured motor ● Update motor name in node explorer after restore / reset or loading of parameter file ● Restore user settings after controller tuning ● Wrong LSS address in network configuration ● Error on saving large MC3 program sequences
V6.5.1	11.12.2018	<p>Fixed:</p> <ul style="list-style-type: none"> ● Corrected Rth and Tw1 values for new BXT motors ● XDC file download on MC2-CO sends parameters in the correct order to avoid a second download with parameters depending on factor group settings ● MC-Basic editor: Cursor position after mouse click on longer pages
V6.5	21.11.2018	New:

		<ul style="list-style-type: none"> • Enhancement of the integrated development environment for MC V3.0 sequence programs • Improvements for MC V3.0 <ul style="list-style-type: none"> ○ Support for FW version „J“ • Improvements for MC V2.x <ul style="list-style-type: none"> ○ Support for CO FW version „D“ • Support for new BXT motors • MC V3.0 devices connected via Windows 10 serial usb driver can be operated as a FAULHABER usb device instead of using the assigned virtual com port (new interface plug-in MC3UsbCom.dll) <p>Changed:</p> <ul style="list-style-type: none"> • “Optimising the polar angle“ removed for MC V2.x • Firmware update process revised
V6.4	25.04.2018	<p>New:</p> <ul style="list-style-type: none"> • FAULHABER support file • Speed Controller support for new 14 pole BXT motors • Improvements on “Select motor” wizard <ul style="list-style-type: none"> ○ Visible also for MCS to configure external encoders and ambient parameters ○ Motor parameters can be exported and imported ○ The adjustment of the hall sensors can additionally be accessed from outside the wizard <p>Fixed:</p> <ul style="list-style-type: none"> • Incompatibility with XDC files which were generated with Motion Manager 5 • Problems with latest IXXAT VC4 driver on Windows 10
V6.3	07.12.2017	<p>New:</p> <ul style="list-style-type: none"> • Improvements for MC V3.x <ul style="list-style-type: none"> ○ Support for devices with STO functionality ○ Support for FW version “I” ○ Free text search in drive functions window ○ Improved controller tuning ○ Toggle digital outputs ○ Optimized system identification ○ Optimized motor selection wizard • Improvements for MC V2.x <ul style="list-style-type: none"> ○ Motion Cockpit and Operate Motor dialog according to MC V3.x ○ Improved CANopen functions according to MC V3.x • General improvements

		<ul style="list-style-type: none"> ○ Client / server network functionality ○ Free text search in CANopen-Object related windows ○ Copy contents out of lists (Terminal log, Object Browser) ○ Global “Switch Off” command (F5) ○ Optimized scaling on high resolution displays ○ Node-Explorer settings are saved automatically if they aren’t saved explicitly in a project file ○ Terminal displays values according to their data type ○ Configure connection parameters: CANopen COB-IDs can be set according to the nodeld <p>Fixed:</p> <ul style="list-style-type: none"> ● Failure on manual download of firmware files in some cases ● Error „No firmware found” after motor selection for SC device ● Access to unconfigured LSS node via USB ● Management of MC V3.x sequence program files
V6.2	12.05.2017	<p>New:</p> <ul style="list-style-type: none"> ● General usability improvements ● Offline mode with virtual devices ● Drive Functions: <ul style="list-style-type: none"> ○ Adjustment for MC V3.0 Firmware Vers. „H“ ● Node Explorer: <ul style="list-style-type: none"> ○ Hint if node is in fault state with reset possibility ○ Ports can be deleted via context menü or delete key ● Status Display <ul style="list-style-type: none"> ○ New Tab for fault registers and fault history ● Changes in graphic analysis tool (trace function) ● Terminal window <ul style="list-style-type: none"> ○ Search function implemented ○ Object names displayed with object commands ● Controller MC2.5 <ul style="list-style-type: none"> ○ Support for CSP mode if provided from the device ● Downloader <ul style="list-style-type: none"> ○ New format *.bix for single file download <p>Fixed:</p> <ul style="list-style-type: none"> ● Treatment of receive buffer overrun ● Configuration for multiturn encoder
V6.1.1	15.12.2016	<p>Fixed:</p> <ul style="list-style-type: none"> ● Firmware update timeout in some cases ● Service module allows reconfiguration of MC5005 devices with wrong hardware id for firmware update ● Online-Updater: Hostname changed to www.faulhaber.com

V6.1	06.12.2016	<p>New:</p> <ul style="list-style-type: none"> • Usability Improvements • Motor selection wizard and controller wizard configure also profile parameters • Extended MC V3.x drive functions dialog • Downloader supports new MC3 bootloader for faster firmware downloads. Optional restores pre-saved user configuration after EEPROM-Update. • A new method to identify inertia implemented in the controller configuration wizard. • Improved system identification via frequency response moved to a separate tool. • Object browser has a new search function and shows the units of the objects in a separate column. • Functionality and secureness of the controller tuning tool is increased (more tuning parameters, optional trace sources selectable, special configuration page, ...) <p>Fixed:</p> <ul style="list-style-type: none"> • Connection wizard disappeared sometimes during node scan • Unnecessary error message appeared, when USB driver was not installed • Errors in program and parameter file download for MC V2.x • Unit of configured load for linear motors • MCLM 300x CO Hall sensor optimization • False behavior after device connection in special situations • Display of operation mode options in drive functions dialog for MC V3.x
V6.0	21.04.2016	First release