

## Release Notes for FAULHABER Motion Manager 6

Revision	Date	Change Description
<b>V6.9.2</b>	04.04.2024	Updated: <ul style="list-style-type: none"> <li>Firmware files for MC V3.0 version "N"</li> </ul>
<b>V6.9.1</b>	26.09.2023	Fixed: <ul style="list-style-type: none"> <li>Trace result at controller tuning</li> <li>Missing SC factory config files added</li> </ul>
<b>V6.9</b>	18.04.2023	New: <ul style="list-style-type: none"> <li>Improvements for MC V3.0 <ul style="list-style-type: none"> <li>Support for FW version „M“</li> </ul> </li> <li>New IXXAT SimplyCAN adapter supported (cheap adapter with reduced performance)</li> </ul> Updated: <ul style="list-style-type: none"> <li>Interface to Peak CAN adapters to support PCAN_VIRTUAL and PCAN_LAN</li> </ul> Fixed: <ul style="list-style-type: none"> <li>SC Configuration <ul style="list-style-type: none"> <li>Display of wrong motor name</li> <li>Switching from fixed velocity to analogue or pwm set point</li> </ul> </li> </ul>
<b>V6.8</b>	30.03.2021	New: <ul style="list-style-type: none"> <li>Support for new MC V3.0 Products <ul style="list-style-type: none"> <li>MC 3001 B RS/CO</li> <li>MC 3001 P RS/CO</li> <li>MC 3603 S RS/CO</li> <li>MC 3603 S ET</li> </ul> </li> </ul> Fixed: <ul style="list-style-type: none"> <li>SC Configuration: Switching from special function to standard</li> </ul>
<b>V6.7</b>	10.12.2020	New: <ul style="list-style-type: none"> <li>Tool to setup motor PWM filters</li> <li>Tool for absolute encoder compensation</li> <li>EtherCAT interface plug-in to connect to EtherCAT slaves via network adapter</li> <li>Support for Multiturnencoder AEMT-12/16 L</li> <li>Improvements for MC V3.0 <ul style="list-style-type: none"> <li>Support for FW version „L“</li> <li>Enhanced system identification</li> <li>CAN and RS232 baudrate can be set via USB using the „Drive functions“ dialog (Communication – General)</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>• Improvements for MC V2.x <ul style="list-style-type: none"> <li>○ Support for CO FW version „E“</li> </ul> </li> </ul> <p>Changed:</p> <ul style="list-style-type: none"> <li>• SC Support <ul style="list-style-type: none"> <li>○ Configuration workflow redesigned in Drive Functions dialog</li> <li>○ Adjustments on Motor Selection Wizard</li> <li>○ Better access to offline mode with virtual devices</li> </ul> </li> <li>• Improved MC3 USB driver</li> <li>• Revised Online-Updater</li> </ul>
<b>V6.6.1</b>	28.05.2020	<p>Fixed:</p> <ul style="list-style-type: none"> <li>• Motion Manager Online-Update</li> <li>• Error after importing SC firmware</li> <li>• Special encoder configurations</li> </ul>
<b>V6.6</b>	11.12.2019	<p>New:</p> <ul style="list-style-type: none"> <li>• Improvements for MC V3.x <ul style="list-style-type: none"> <li>○ New Firmware Version „K“ in the installation package</li> <li>○ For manual firmware update new Bix files contain also the associated xdd file for automatic import into the Motion Manager</li> <li>○ Enhanced motor wizard <ul style="list-style-type: none"> <li>▪ Supports configuration of multiturn absolute encoders</li> </ul> </li> <li>○ MC3 sequence programs <ul style="list-style-type: none"> <li>▪ File size up to 16100 Byte</li> <li>▪ New bit-wise XOR operator (^)</li> </ul> </li> </ul> </li> <li>• Improvements for MC V2.x / SC <ul style="list-style-type: none"> <li>○ New Firmware for “22...BXT SC” and “32/42...BXT SC” in the installation package</li> <li>○ SC drive functions <ul style="list-style-type: none"> <li>▪ Support for new BXT SC devices</li> </ul> </li> <li>○ Enhanced motor wizard <ul style="list-style-type: none"> <li>▪ MC2 profile parameters are set according to the selected motor</li> <li>▪ Adjusted settings for SC</li> </ul> </li> </ul> </li> <li>• Online news page shown in the “Editor” with current contents from the FAULHABER internet pages</li> </ul> <p>Changed:</p> <ul style="list-style-type: none"> <li>• Motor wizard <ul style="list-style-type: none"> <li>○ Hall sensor adjustment for small rotary and linear motors improved</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>○ Optimized controller settings for linear motors</li> <li>○ Motor parameters of a MCS will not be changed anymore</li> <li>○ Current limit values of a SCS will not be changed anymore</li> <li>● Access restriction for MC3 program sequences</li> <li>● Improvements on firmware update</li> </ul> <p>Fixed:</p> <ul style="list-style-type: none"> <li>● Prevent switch on of controller with unconfigured motor</li> <li>● Update motor name in node explorer after restore / reset or loading of parameter file</li> <li>● Restore user settings after controller tuning</li> <li>● Wrong LSS address in network configuration</li> <li>● Error on saving large MC3 program sequences</li> </ul>
<b>V6.5.1</b>	11.12.2018	<p>Fixed:</p> <ul style="list-style-type: none"> <li>● Corrected Rth and Tw1 values for new BXT motors</li> <li>● XDC file download on MC2-CO sends parameters in the correct order to avoid a second download with parameters depending on factor group settings</li> <li>● MC-Basic editor: Cursor position after mouse click on longer pages</li> </ul>
<b>V6.5</b>	21.11.2018	<p>New:</p> <ul style="list-style-type: none"> <li>● Enhancement of the integrated development environment for MC V3.0 sequence programs</li> <li>● Improvements for MC V3.0 <ul style="list-style-type: none"> <li>○ Support for FW version „J“</li> </ul> </li> <li>● Improvements for MC V2.x <ul style="list-style-type: none"> <li>○ Support for CO FW version „D“</li> </ul> </li> <li>● Support for new BXT motors</li> <li>● 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)</li> </ul> <p>Changed:</p> <ul style="list-style-type: none"> <li>● “Optimising the polar angle“ removed for MC V2.x</li> <li>● Firmware update process revised</li> </ul>
<b>V6.4</b>	25.04.2018	<p>New:</p> <ul style="list-style-type: none"> <li>● FAULHABER support file</li> <li>● Speed Controller support for new 14 pole BXT motors</li> <li>● Improvements on “Select motor” wizard <ul style="list-style-type: none"> <li>○ Visible also for MCS to configure external encoders and ambient parameters</li> <li>○ Motor parameters can be exported and imported</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>○ The adjustment of the hall sensors can additionally be accessed from outside the wizard</li> </ul> <p>Fixed:</p> <ul style="list-style-type: none"> <li>● Incompatibility with XDC files which were generated with Motion Manager 5</li> <li>● Problems with latest IXXAT VC4 driver on Windows 10</li> </ul>
<b>V6.3</b>	07.12.2017	<p>New:</p> <ul style="list-style-type: none"> <li>● Improvements for MC V3.x <ul style="list-style-type: none"> <li>○ Support for devices with STO functionality</li> <li>○ Support for FW version "I"</li> <li>○ Free text search in drive functions window</li> <li>○ Improved controller tuning</li> <li>○ Toggle digital outputs</li> <li>○ Optimized system identification</li> <li>○ Optimized motor selection wizard</li> </ul> </li> <li>● Improvements for MC V2.x <ul style="list-style-type: none"> <li>○ Motion Cockpit and Operate Motor dialog according to MC V3.x</li> <li>○ Improved CANopen functions according to MC V3.x</li> </ul> </li> <li>● General improvements <ul style="list-style-type: none"> <li>○ Client / server network functionality</li> <li>○ Free text search in CANopen-Object related windows</li> <li>○ Copy contents out of lists (Terminal log, Object Browser)</li> <li>○ Global "Switch Off" command (F5)</li> <li>○ Optimized scaling on high resolution displays</li> <li>○ Node-Explorer settings are saved automatically if they aren't saved explicitly in a project file</li> <li>○ Terminal displays values according to their data type</li> <li>○ Configure connection parameters: CANopen COB-IDs can be set according to the nodeId</li> </ul> </li> </ul> <p>Fixed:</p> <ul style="list-style-type: none"> <li>● Failure on manual download of firmware files in some cases</li> <li>● Error „No firmware found“ after motor selection for SC device</li> <li>● Access to unconfigured LSS node via USB</li> <li>● Management of MC V3.x sequence program files</li> </ul>
<b>V6.2</b>	12.05.2017	<p>New:</p> <ul style="list-style-type: none"> <li>● General usability improvements</li> <li>● Offline mode with virtual devices</li> <li>● Drive Functions: <ul style="list-style-type: none"> <li>○ Adjustment for MC V3.0 Firmware Vers. „H“</li> </ul> </li> <li>● Node Explorer:</li> </ul>

		<ul style="list-style-type: none"> <li>○ Hint if node is in fault state with reset possibility</li> <li>○ Ports can be deleted via context menü or delete key</li> <li>● Status Display <ul style="list-style-type: none"> <li>○ New Tab for fault registers and fault history</li> </ul> </li> <li>● Changes in graphic analysis tool (trace function)</li> <li>● Terminal window <ul style="list-style-type: none"> <li>○ Search function implemented</li> <li>○ Object names displayed with object commands</li> </ul> </li> <li>● Controller MC2.5 <ul style="list-style-type: none"> <li>○ Support for CSP mode if provided from the device</li> </ul> </li> <li>● Downloader <ul style="list-style-type: none"> <li>○ New format *.bix for single file download</li> </ul> </li> </ul> <p>Fixed:</p> <ul style="list-style-type: none"> <li>● Treatment of receive buffer overrun</li> <li>● Configuration for multiturn encoder</li> </ul>
<b>V6.1.1</b>	15.12.2016	<p>Fixed:</p> <ul style="list-style-type: none"> <li>● Firmware update timeout in some cases</li> <li>● Service module allows reconfiguration of MC5005 devices with wrong hardware id for firmware update</li> <li>● Online-Updater: Hostname changed to <a href="http://www.faulhaber.com">www.faulhaber.com</a></li> </ul>
<b>V6.1</b>	06.12.2016	<p>New:</p> <ul style="list-style-type: none"> <li>● Usability Improvements</li> <li>● Motor selection wizard and controller wizard configure also profile parameters</li> <li>● Extended MC V3.x drive functions dialog</li> <li>● Downloader supports new MC3 bootloader for faster firmware downloads. Optional restores pre-saved user configuration after EEPROM-Update.</li> <li>● A new method to identify inertia implemented in the controller configuration wizard.</li> <li>● Improved system identification via frequency response moved to a separate tool.</li> <li>● Object browser has a new search function and shows the units of the objects in a separate column.</li> <li>● Functionality and secureness of the controller tuning tool is increased (more tuning parameters, optional trace sources selectable, special configuration page, ...)</li> </ul> <p>Fixed:</p> <ul style="list-style-type: none"> <li>● Connection wizard disappeared sometimes during node scan</li> <li>● Unnecessary error message appeared, when USB driver was not installed</li> </ul>

		<ul style="list-style-type: none"><li>• Errors in program and parameter file download for MC V2.x</li><li>• Unit of configured load for linear motors</li><li>• MCLM 300x CO Hall sensor optimization</li><li>• False behavior after device connection in special situations</li><li>• Display of operation mode options in drive functions dialog for MC V3.x</li></ul>
<b>V6.0</b>	21.04.2016	First release