



JVL
intelligent motors

Changing the Ethernet protocol

Instructions for MAC and MIS



Important User Information



Warning

The MAC and MIS series of products are used to control electrical and mechanical components of motion control systems. You should test your motion system for safety under all potential conditions. Failure to do so can result in damage to equipment and/or serious injury to personnel.

Please contact your nearest JVL representative in case of technical assistance. Your nearest contact can be found on our web site www.jvl.dk

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Revisions

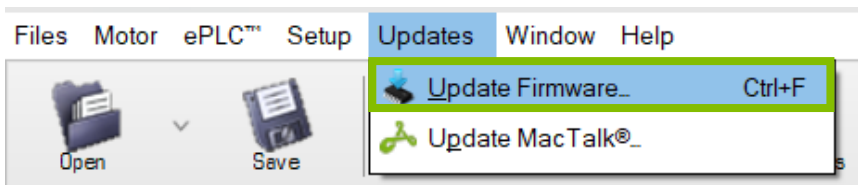
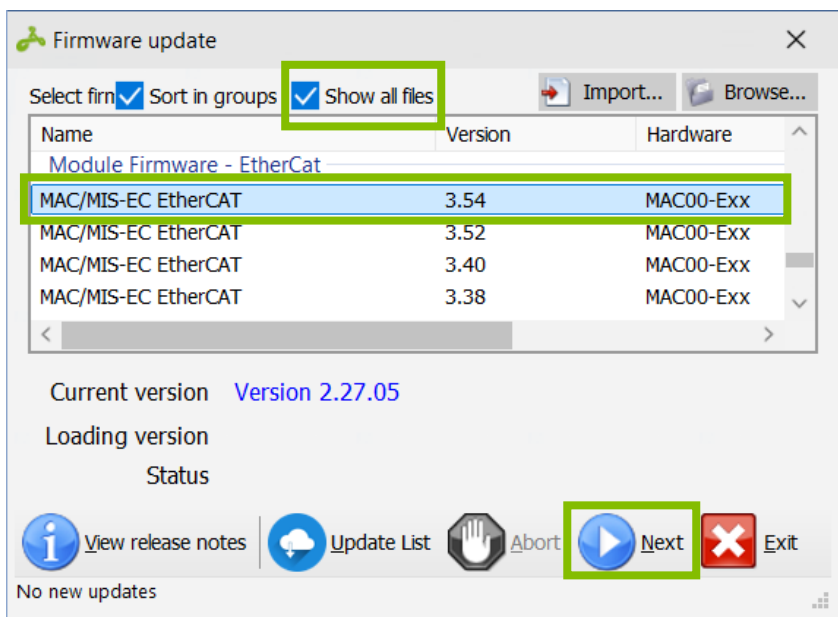
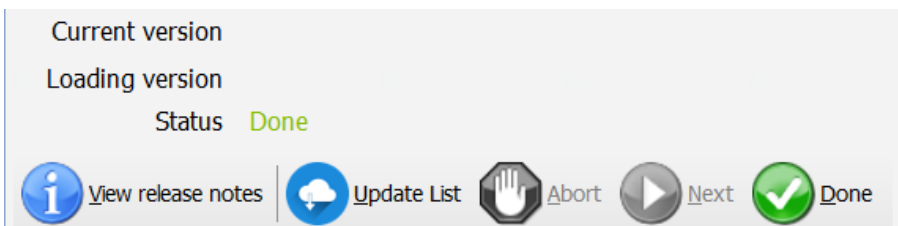
Ver.	Changes	Date	Init
1.0	Document creation	2025-10-23	JLN



1 Prerequisites

- MIS motor with Ethernet connectivity (MISxxxxxxExxxxx), MAC with an MAC00-Exx module or newer MAC with integrated module (MACxxxxxx-xxxxExx).
- MacTalk PC software.
- **Strongly recommended:** Serial adaptor supplied by JVL
 - RS485 for MIS or MAC motors with integrated module (RS485-USB-ATC-820, RS485-M12M5M8M17 or USB-RS232/485-OPTO)
 - RS232 for MAC with MAC00-Exx modules (RS232-USB2.0-1 or RS232-M12M5M8M17)

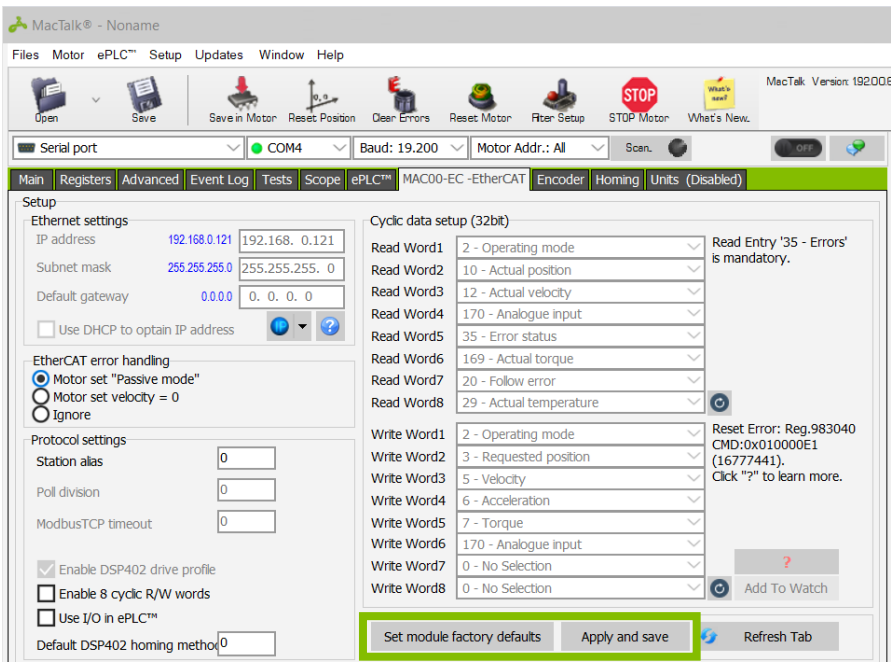
2 Steps for changing the Ethernet protocol

Step	Text	Image
1	Open MacTalk and connect to the motor. Then, press <i>Updates - Update Firmware</i>	
2	Check "Show all files". Scroll down until the appropriate module firmware is displayed. Double click it, or press "Next". Note: EtherCAT is shown here but any Ethernet protocol can be chosen.	
3	Wait for the process to finish. Then, press "Done".	
4	The motor will restart, and the new protocol will be active. Note: You may have to restart MacTalk to properly connect	



3 Troubleshooting

In case it is not possible to connect to the module via Ethernet (in MacTalk) after the update, please attempt the following:

Step	Text	Image
1	Connect to the motor via a serial connection (RS232/RS485).	
2	Navigate to the protocol tab. Press “Set module factory defaults” and “Apply and save”. Note: EtherCAT is shown here, but all protocols have similar tabs.	
3	Power cycle the motor. It should now be possible to connect to the motor over Ethernet.	