Software release document

Firmware for Product(s): MAC00-EMx, MIS 17/23/34/43 with EM option, SMC 66/85 with EM option.

(ModbusTCP)

Latest version: 3.26
Date: 30th of September 2022

Build: 10279

Description:

Version 3.26 (build 10279, 30th of September 2022), KB:

Requires at least version 2.11 of MAC400+ firmware
Requires at least version 4.02.0073 of MIS firmware
Requires at least version 1.90.016 of Mactalk, to use all features.

Bug fixes:

- Module I/O fixed for RM4 CPU type in MAC motors.

Version 3.24 (build 10254, 24th of February 2021), KB:

Requires at least version 2.11 of MAC400+ firmware
Requires at least version 4.02.0073 of MIS firmware
Requires at least version 1.90.016 of Mactalk, to use all features.

New features:

- Support WiFi module in MIS motors.
- Added new commands for delayed reset.
- Function code 0x04 added as a copy of function code 0x03.
- Function code 0x06 - Single register write added. To write 32bit registers then first write high word in uneven register, then write low word in even register, at that point the actual write to the 32bit motor/module register takes place.
- 16bit read now possible if reading exactly one 16bit modbus register..
- Modbus write to motor registers above 255 and below 512 now possible.

Version 3.21 (build 1445, 8'Th of August 2017), KB:

From the release notes in the .MAF files:
New features:

- Mactalk over Ethernet possible, **including** firmware update.
- Modbus**UDP** now also supported.
- Shows new IP in Mactalk when changed by DHCP.
- TCP/IP stack update to V2.4.0.2.

Bug Fixes:

- Motor outputs mirror to module outputs, when "Use I/O in eRxP" is checked works now.
- Don't ruin MAC address and serial number accidently, in case of power off in flash save cycle.

Detailed descriptions:
- Mactalk connection to ModbusTCP module by Ethernet is now possible. All functions available in Mactalk including firmware updates works. For MIS motors it requires minimum firmware version 4.01.0072 before all functions are available.
- The UDP alternative to TCP as transport protocol is now available, enabling much faster access and lower network load.
- When the IP settings are fetched from a DHCP server instead of being changed manually, the fetched settings are now showed in Mactalk.
- The used TCP/IP stack is updated to a newer version with several minor changes and some bug fixes.
- The mirror of motor outputs to module outputs, used when RxP programming a MAC motor works now.
- In very rare cases the MAC address and serial number could be ruined if removing power while a save in flash was ongoing. Fixed.

Version 3.16 (build 1021, 10 October 2013), KB:

From the release notes in the .MAF files:
New features:

- Sets flag in module register 48 if no motor communication.
- Factory defaults restored if protocol type has changed.
- Module I/O can be mirrored to motor for use with eRxP.
- DHCP now supported if enabled in MacTalk.

Bug Fixes:

- Change of gateway and netmask from MacTalk works again.
- Connect/reconnect more than 12 times now possible.

Detailed descriptions:
- Bit no. 4 in module register 48 is now set if the module cannot communicate with the motor, enabling the PLC and or MacTalk to check for this error situation.
- When changing the Ethernet protocol in the module from for example EthernetIP to ModbusTCP then factory default data is restored, overwriting existing setup.
- If using eRxP (embedded RxP in motor), it is now possible to get and set the digital inputs and outputs of the module in the eRxP program.
- DHCP can now be enabled in Mactalk. Remark that the IP shown in Mactalk is no longer valid, when DHCP is enabled.

Version 3.13 (build 451, 27 February 2013), KB:

- First official released version of modbusTCP.