## Release Notes AC500 CPU Firmware

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# Improvements in Firmware V2.5.2 (additionally to the other listed hereunder for V2.5.1)

SD-Card creation with Firmware V2.5.1 and PLC browser commands (sdappl or sdclone) / Boot project load with Firmware V2.5.1 for SM560-S Safety CPU and CM574-RS from SD-Card Previous problem, which is relevant for Firmware V2.5.1 only, is now fixed in Firmware V2.5.2.

<u>Note</u>: the browser commands sdappl or sdclone don't functioning with PM591-2ETH and PM595-4FTH CPU.

## Improvements in Firmware V2.5.1

#### **PROFINET**

PM595-4ETH shows configuration error in case of configuration of PROFINET for internal coupler ETH3 and/or ETH4 and external coupler CM579-PNIO in slot 1 or slot 2 and SM560-S. Fixed

#### File handling

File handling in RUN mode of PM5xx (e.g. by CAA\_File\_, write Bootproject, ..) can limit the Ethernet throughput to guarantee volume. The can lead to timeout e.g. in Modbus TCP communication. Fixed

#### System

Online change + RESET: Project with large structures with REAL/LREAL variables can lead to fault values after Online change and followed by RESET. Fixed

"IEC conversion function LWORD\_TO\_STR() doesn't work for numbers > (2^32)-1". Fixed

#### Webserver

PM595-4ETH can crash when typing a LREAL Variable in Webvisu. Fixed

## Online access

Force will not be released when logged in via Ethernet and connection is broken (no logout). Fixed

#### **Ethernet**

IEC60870-5-104: Variable Broadcast Address for General Interrogation FB from AC500 (AC500 IEC60870-104 type C\_IC\_NA\_1).

## System

New CPU parameter "Task compatibility mode" with values:

- File Handling priorized for Idle CPU time (default/same as v2.4.x)
- Balanced Handling of Ethernet and file operations for Idle CPU time
- Ethernet Handling priorized for Idle CPU time

Support of CM5xx firmware identification and download from Automation Builder (AB)

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Display firmware V2.9 - extension for EC58x (Custom specific)

PM59x: For CMS Signal Processing Lib (C-Code) memory is allocated in the HEAP. Increasing the HEAP would give more possibilities for further algorithms.

## **EtherCAT**

Support of EtherCAT slaves with several layers of submodules (e.g. Beckhoff EK1110)

Support of sync units

EtherCAT support on PM595-4ETH, internal couplers ETH3 and ETH4 can now be used as PROFINET master or as EtherCAT master.

## Support of new devices

New PROFIBUS DP communication module CM592-DP (as replacement of CM572-DP)

New AC500 CPU PM585-ETH

New AC500-eCo PLC PM566-ETH