



Release Notes

AC500 CPU Firmware

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1 Changes CPU Firmware V2.3.3

1.1 Improvements

The following improvements have been included in Firmware V2.3.3.

File Handling

Using `CAA_File` Library's Function Blocks under high CPU load conditions caused stucking of the application program. Fixed.

IEC 60870-5-104

The Answer to General Interrogations contained values with time stamp instead of values without time stamp. Fixed.

Changes CPU Firmware V2.3.3

Improvements

2 Changes CPU Firmware V2.3.2

2.1 Improvements

The following improvements have been included in Firmware V2.3.2.

Web Server

CPU PM5xx has crashed if visualizations with many polling variables have been used. Fixed.

Ethernet

The Function Block `ETH_MOD_MAST` has not set its outputs `DONE`, `ERR` and `ERNO` if a timeout has occurred. Fixed.

PROFINET

After a PM5xx Standard CPU has been stopped and restarted, the PROFINET Communication Module CM579-PNIO sends old values to PROFINET IO Modules, e. g. CI501-PNIO. As a result, the digital outputs have been activated for approximately 2 seconds. Fixed.

CANopen

After a PM5xx Standard CPU has been stopped and restarted, the CANopen Communication Module CM578-CN sends old values to CANopen Slave Modules, e. g. CI581-CN. As a result, the digital outputs have been activated for approximately 2 seconds. Fixed.

CS31

The parameter `Ignore_Module` has not worked for IO expansion modules attached to CI592-CS31 and DC551-CS31 module. It worked only for the last IO module attached to the module cluster. Fixed.

Serial Communication

A runtime error occurred while using the Function Block `COM_MOD_MAST` via Communication Module CM574-RS when the response time of the slave is longer than the timeout set for the Function Block. Fixed.

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File Handling

Function `SysFileGetTime` which is contained in library `SysLibFile` always return `FALSE` at output `SysFileGetTime`. Fixed.

Changes CPU Firmware V2.3.2

New Features

IEC 60870-5-104

If a measurement value with 16 datapoints (real) has been configured and 3 of the datapoints had a threshold, all 16 datapoints have been transmitted only if the changes became larger than the threshold. Fixed.

If sending a counter interrogation message via Function Block `IEC60870_SEND_C_CI_NA_1`, AC500 does not send the actual value, but the latest value. Fixed.

ACTCON of Function Block `IEC60870_SEND_C_CS_NA_1` sent wrong time on ACT message. Fixed.

Buffered Data

Interruption of the power supply voltage during boot-up of AC500-eCo CPUs PM54x and PM56x could result into losing retain and persistent data. Fixed.

2.2 New Features

The following new features have been fixed in Firmware V2.3.2.

Diagnostic System

An E2 error is generated if the Terminal Base TB5xx has an unknown ID.

AC500-S

Fast bulk data exchange between SM560-S Saftey and AC500 Standard CPU is possible now.

Function Block Libraries

Support for new Function Block `BOOTPROJECT_HASH_INFO` (contained in internal system library) introduced. This Function Block enables hash checks of all parts of a boot project.

Programming in C-Code

New standard libraries for for C-Code editor added.