

# Bios Update Release Notes



## Bios Version 5.17 - Release notes

### PLEASE READ CAREFULLY BEFORE INSTALLATION

#### File format and covered models

This BIOS is released as one single file called bios\_517.os, dated 08/02/2011. The file contains BIOSes for the following models of pCO: pCO1, pCO3, pCOC, pCOXS, pCOOEM, Supernode, pCOCompact and pCO5. The size of the BIOS is 640kB for pCO1, pCOC, pCOXS with 128kB RAM, it is 704kB for pCO1, pCOC, pCOXS with 512kB RAM, 768kB for pCO3 and pCO5, 640kB for Supernode and pCOCompact.

#### Minimum requirements

This BIOS needs BOOT version 4.xx to be used on pCO1 2MB, pCOXS 1MB+1MB and pCOOEM. Supernode needs Boot 4.07 minimum. pCO5 needs Boot 4.10 minimum.

#### Update methods

The files in ".os" format must be used with WinLoad 3.37 or higher. For Supernode, pCOCompact and pCO5 use the pCOManager tool. An .os file can be selected in WinLoad in the same tab "Upload - Bios" used for the normal .bin files; once the .os file has been selected, when pressing the "Upload" button, WinLoad automatically loads the correct BIOS for the currently connected pCO.

#### Enhancements

- **Strategy Manager:**
  - A new atom has been added, Ri\_PcoX32bit. This atom allows application to read 32-bit integer variables.
- **I/O Manager:**
  - Two new types of NTC probes can be managed, to allow Ohm reading directly. The change affects pCO3, pCOCompact and pCO5 and gives back the value as a multiple of 5 ohm or 10 ohm. To use the new probe type, use the values 14 and 15 as Type inputs of the Ain\_conf atom, respectively. Refer to 1tool manual for more info.
- **Protocols:**
  - Modbus slave protocol 33 is now available also on BMS1, but only for pCO5, pCOCompact and Supernode.
  - Modbus slave protocol has a new available baud rate (38400bps) that can be set on BMS1 of pCOCompact, Supernode and pCO5 and on BMS2 of pCO5 and Supernode. To use the new baud rate on BMS1 and/or BMS2, set the variables COM\_BAUDRATE\_BMS and/or COM\_BAUDRATE\_BMS2 to 5, respectively. The setting is only valid when using protocols 3, 30 or 33.
- **Others:**

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- pCOWeb and pCOnet configuration from system masks has undergone some major modifications to make more reliable the entire functioning and easier moving from one mask to another. For these reasons, we strongly recommend to use this Bios release (instead of the release 5.16) to configure pCOWeb and pCOnet.

## Fixed bugs

- It was not possible to upload an application larger than 2MB to an 8MB pCO5 using the USB pen drive. Note that no data logging can be performed if application exceeds 3MB.
- System variable COMX\_PROTOCOL\_ERROR notified an error (code 1000) if serial port BMS2 (when present) was configured as modbus extended slave (code protocol 33). This is an allowed configuration, then no error is returned any more.
- System variable COMX\_PROTOCOL\_ERROR always gave the same error code, whatever the used atom (RA\_MultiSer, RI\_MultiSer, RD\_MultiSer). Now, it takes the values specified by 1tool manual page on COMX\_PROTOCOL\_ERROR.
- Web page refresh after pcoweb reboot (with pco running and Carel protocol set) could at times be incomplete (only with Bios release 5.16): when a pCOWeb (or pCOnet) was rebooted with pCO left running, it could happen that the web page showing the parameters of the pCO was not correctly updated (showing all 'U' values).
- On pCOCCompact and Supernode, the variable PULSE\_COUNTER\_FAST\_ID1 couldn't be increased with an offset, because, at the successive observed switch, the variable value was back to the original value (without the offset).
- Analog and GSM modems on Fieldbus1 couldn't operate on pCO5. Dual contemporaneous Carel supervision on BMS1 and Fieldbus1 did not work on pCO5.
- Virtual keys did not work if used during the first program cycle.
- pCOCCompact may present some unexpected activation of the relays when using USB ports (when present).
- The reliability of the upload of software via pLAN with LON card inserted on pCO3 (while application is running) has been improved, with BIOS 5.16 in some cases it could fail.