

COSinus 1.28.51 Release Note

This document describes important notes for the COSinus FW version.

The COSinus FW is available for the following systems:

- * PCD1.Mxxx0
- * PCD2.M4x60
- * PCD3.Mxx60
- * PCD3.M6880
- * PCD7.D4xxT5F

Important for FW update:

Usually by FW update the application program, the Texts/DBs and the media (Flags, Registers, Timers/Counters) remains unchanged.

However:



Updating to FW 1.22.xx or newer from a version 1.16.xx deletes the data on SRAM.

⇒ PCD2.M5xx0 & PCD3.Mxxx0 (without PCD3.Mxx60):

The program, the media and all Texts/DBs are deleted. The program and the Texts/DBs will be restored from the “program backup” if present.

⇒ PCD1.M0xx0, PCD1.M2xx0 & PCD3.Mxx60:

The application program is not deleted whereas the media are cleared and the RAM Texts/DBs are restored from the “program file” or the “program backup”.

On PCD3.Mxx60 the INTFLASH size has been increased to 128MB. Therefore the File System on the INTFLASH will be reformatted and all files stored on this device will be lost.

Update to this FW from a version $\leq 1.14.xx$ deletes the user program, the media and the onboard file system is formatted, all data on the flash (file system, backup program & DB's) are deleted.

If a program backup on an external device exists, it will be restored!

Downgrade FW from 1.26.xx to previous versions can delete configurations on PCD1.M0xx0, PCD1.M2xx0, PCD2.M4x60 & PCD3.Mxx60 because of the increase of None Volatile Registers.

Compatibility of COSinus with the PCD types

This COSinus firmware 1.28.xx requires a PCD equipped with SD card and with 32MB DRAM.

The table hereafter presents the corresponding COSinus FW for the different PCD types as the required minimal HW revision

1.1 COSinus compatibility with PCD types and HW revision

PCD System	HW revision		COSinus FW
	Listed on the sticker (System vers.)	Read by the PG5 (CPU vers.)	
PCD1.M0xx0 PCD1.M2xx0	F*	F*	PCD1.M2xx0_PCD2.M4x60_1.28.xx.blk
PCD1.M2110R1	\$A	F	
PCD1.M2220-C15	A	A	
PCD2.M4x60	A	A	
PCD3.Mxx60	A	A	PCD3.Mxx60_1.28.xx.blk
PCD3.M68x0	D	D	
PCD7.D4xxxT5F	A	A	PCD7.D4xxxT5F_Prog_1.28.xx.blk
PCD7.D443WT5R	A	A	PCD7.D4xx_ST3R2_LogicController_1.28.xx.blk
PCD3.T665 PCD3.T666 PCD3.T668	A	A	PCD3.T6xx_1.28.xx.blk

Note: * On PCD1 hardware revision F is required to use the S-Monitoring function and LON FT-10.

1.2 Important information

1.3 Compatibility of BACnet/LonIP with the PCD types

BACnet/LonIP FW compatibility with PCD FW

PCD FW	BACnet/LonIP FW
1.28.00 <-> 1.28.xx	1.28.00 <-> 1.28.xx

PCD System	LonIP FW	BACnet FW*
PCD1.M0xx0 PCD1.M2xx0 PCD1.M2110R1 PCD1.M2220-C15	LonIP_PCD1.M2xx0_1.28.xx.blk	BACnet Rev. 14: BACnetV2_1.28.xx.blk
PCD2.M4x60	LonIP_PCD3.Mxx60_1.28.xx.blk	
PCD3.Mxx60 PCD3.M6880		
PCD7.D4xxxxT5F		

- * No old BACnet Stack is available for FW > 1.28.xx
- * When update BACnet from previous version to Rev. 14 stack or higher PG5 2.2.210 is required. Migrate a previous used project the BACnet configuration must be set to Revision 14 in the BACnet configurator then rebuild and download the project to the upgraded PCD.

1.4 Compatibility of Ethernet Extension FW

PCD FW	Ethernet Extension FW
1.28.00 <-> 1.28.xx	1.28.00 <-> 1.28.xx

PCD System	Ethernet Extension FW
PCD3.Mxx60 PCD3.M6880	PCD3.M68x0_Eth2_1.28.xx.blk

Note: It is mandatory to update first the Extension FW to 1.28.xx before the Main FW. Old extension FW are not supported with COSinus FW 1.28.xx or newer even for FW update!

If the Extension has no FW (only Booter FW), it is no more possible to update the FW over the Main PCD. However, FW update from extension USB is always possible.

1.5 Compatibility of F2xx FW

This PCD FW version requires F2xx FW version 1.04.02 or higher.

PCD FW	F2xx FW
> 1.28.00	>1.04.02