1 History

Supported Plattforms
PCD3.M5567
PCD3.M6367
PCD3.M6567
PCD3.M9K47

V1.20.48	04.12.2013
New Features	
	WEBServer Changed Start / Status Webpage to be CI- conform.
Bug fixes	

V1.20.46	25.09.2013
New Features	
Bug fixes	
	CAN IO-MANAGER The Can IO-Manager is starting with the SFB 413 call. Normaly the sfb is called in the OB100 (or in the OB1). With the SFB413 it is possible to stop the CAN IO-Manager. If so it was not possible to restart the CAN IO-Manager, except after a Run-Stop-Run of the plc.

V1.20.38	06.04.2013
New Features	
Bug fixes	
	PLC PCD can stop with SWTO Error (Crash) while deleting DB's with FTP / WEB / ...
	Communication WebServer / Extended DK If during downloading PCD-Files (PLC:/BLOCKS/) with WEBServer EDK an an Error occures the PCD can Stop with en Kernel Error (Crash).
	Communication Modbus: With a MODBUS message is received over IP with a length bigger than 260 bytes (maximum supported message length as defined in the MODBUS specification), the driver will blog and does NOT process any further MODBUS message
	Peripherie: Modules with NI1000 L&S Temperature Sensors returns wrong Values if the temperature is negative.

V1.20.26	07.03.2013
New Features	
Bug fixes	
	Communication: For the second Ethernet Interface, some port Definitions has changed. But in some existing functions there were still the old definitions used. Some IP-Services were not working.

V1.20.23	21.02.2013
New Features	
Bug fixes	
	System (General): • Power down: Disable cache and CS SRAM in power down and wait if the CLR is still active. New functions to write in the SRAM before disable it. • Disable default interrupts on power on/reboot The PCD can crash on a reboot if interupt are still active. Specally if there is a lot of serial communication. • Disable default interrupts on power on/reboot: The PCD can crash on a reboot if interupt are still active. Specally if there is a lot of serial communication. • Glitches on Start-up Pin assignement Register initialisation was in the wrong order. Glitches occured on the uSD-Card bevor the Initialisation of the uSD-Card was finished. • CashFlush Setting: the Cash Initialisation as Described in the CPU Manual.
	File system: • Additional SRAM file system checks at power ON At power ON, the SRAM file system is checked. File location, end of file location, pointer to next/previous are checked to be within the defined file system. • SD Card not found if short power down or crash It was found that after a short power cycle the SD-Card would clock out data during the SetSpiMode? sequenz. This was only the case if a large number of files was decrompressed in the background from the SD-Card. The probable cause was therefore that the SD-Card was in a internal state in which it was supplying the read data. • File system for FLASH devices include timestamps for files. Implement creation date and modification date for FLASH file system • File system crash with empty filname • File System new block error. When new blocks are required at end of block list, the system may overwrite unexpected data. • PLC_SYS Directory on the uSD Card is recreated if not correctly existing at Power Up.
	Communication:

- Support for CP5711 xx7 communication adaptor: With the new CP5711 communication adaptor for xx7 devices, the protocol for sending long frames (0xf0 -> 0x05 -> 0xf1 -> 0xb0) is modified (0xf0 -> 0xf1 -> 0xb0). The distinction is made with the first 0x05 telegram, where the ""Protocol"" number (second byte of telegram) is now 0x07 instead of 0x01. When the PG sends long telegram, the old data exchange mechanism is kept.
- Ethernet communication: Test to detect troubles in TX path
- ExtDK missing Answer in an Error Case   ExtDK Smart driver is not sending an Answer in an Error Case of the DK Protokoll.
- USB connection problem: Set the PLL to 240Mhz with dithering as default and only if the FDL driver is enabled with a baudrate of 93,725 or 187.5kBd the PLL is switched to 234MHz without dithering.

System Functions:
- SFC_022 (CreateDB) returns an error   From the user program, the call to SFC_022 (CreateDB) returns an error (not enough memory).
- New Funktion in the SFC255, to return the FW-Version String.
- Adapt SFC245 Interface to the SAIA-Library: TimeStamp and Header Version doesn't fit to the SAIA-Librarry. So it was not possible to watch online a Function with the SFC245 inside!
- Changing IP- Adress with FB55 can stop PLC with Cycle-Time ErrorChanging the IP-Adress with FB55 will modify the SDB. On M5373 Platforms the SDB ist rewritten to the SD-Card. That can take some time.
- The SFB 455 FRead and SFB460 SRead read a String like a normal Byte Array. Correct the First two bytes are length of the String information.
- The SFB 454 Fwrite and SFB459 Swrite write only the Text from an S7 String and not the full S7 String (with length information).

Modbus:
- Modbus in ASCII mode on Port 2 with RS-485 did not work for baudrates <9600 bps
- In case of line perturbation, e.g. parity error, loss of character, the MODBUS ASCII reception stops working properly and the communication can not be re-established.
- When too many modbus media are requested, the limit check fails.
- MODBUS RTU driver send buffer error and retry count error. When request is received with a not defined UID and the send list is not empty, an major error occurs. The retry counter shall not be based on the register content as this can be cleared at anytime by the user program.

FTP:
- When sending a file with FTP cgi, the final byte from the name is cut.
- FTP user name is not tested correctly over the HTTP WEB CGI access.
- FTP password and access group are not tested correctly over the HTTP WEB CGI access.
- A ftp json root directory listing sends now additionally the

* index

* size

* blocksize

	* blocknumber objects.
	- FTP commands XMKD does not exist and NLST does not work when directory is empty "XMKD command shall be impemented (same as MKD). NLST shall respond also when directory is empty." - FTP Connection problems: Sometimes, FTPSNewConfig was not called at start-up.
	Web Server: - After a format on a filesystem is done. The web server can not access to this flash device anymore and the error ""HTTP 404 File Not Found"" is printed. - Read WebTag ClearAll returns allways OK. finished, independed of the real Status. "Reading the WebTag ClearAll returns emediate OK, ClearAll finished. The Variable with holding the State of the ClearAll was never set to an other State than O.K." - Incorrect WEB-CGI error message On an incorrect PLC WEB-CGI access the return error message is ppo media(/format) unkown instead of unknown.

V1.16.76	02.11.2012
New Features	
Bug fixes	
	FB 443 / FB 444 Create IP/ISO Connection Creating a new IP/ISO Connection on an existing Connection Id will return the Error 0x8A2A.
	WEB Server Read WebTag ClearAll returns the real Status of ClearAll. Until this Version Reading the Status of Clear All returned OK independed of the real Status.
	Internal FS (PLC_SYS) If the PLC_SYS directory on the internal SD-Flash is not accessible during Power Up, we create it and do a reboot of the System.

V1.16.71	16.07.2012
New Features	
Bug fixes	
	Ftp-cgi: The web server responses with two HTTP responses, when uploading a file with ftp cgi and a file system is inaccessible.
	IP-Communication: Over UDP connections it was only possible to transmit and receive 744 Byte (mainly because of the F655 Module restrictions). All systems without F655 Module could run without this restrictions. Now UDP is able to transmit and receive up to 2048 Byte.

V1.16.68	31.05.2012

New Features

PLC_xx7
Die Lokal Daten werden von 32 auf 64 k Verdoppelt.

PLC_xx7
SFC 260 Funktion zum ändern der minimalen Zykluszeit während der laufzeit.

PLC_xx7
SFC261 Funktion die den OB90 abbricht, und direkt mit OB 1 started (minimale Zykluszeit wird nicht eingehalten.)

Bug fixes

SD card format from user program increases the PCD cycle time.

- During SD card formatting, the PCD cycle time is increased too much (typically up to 100 ms). Depending on the used SD card and the number of accesses performed on the card, the cycle time is increased till a SWTO error is generated.
- SD Card not found if short power down or crash

FTP password

FTP password and access group are not tested correctly over the HTTP WEB CGI access.

Modbus

- Modbus in ASCII mode on Port 2 with RS-485 does not work for baudrates <9600 bps
- In case of line perturbation, e.g. parity error, loss of character, the MODBUS ASCII reception stops working properly and the communication can not be re-established.

SFC_022 (Create DB)

From the user program, the call to SFC_022 (CreateDB) returns an error (not enough memory).

Modbus

In case of line perturbation, e.g. parity error, loss of character, the MODBUS ASCII reception stops working properly and the communication can not be re-established.

WEB Server

Incorrect WEB-CGI error message On an incorrect PLC WEB-CGI access the return error message is ppo media(/format) unknown instead of unknown.

V1.16.50.3	23.03.2012

New Features

Bug fixes

Change IP-Adress with FB55
While the SDB is rewritten over SPI on the uSD-Card after a changing the IP-Adress, it could happen, that the SPI-Communication interrupts the CPU Cycle for to long time.

The CPU goes to stop with Cycle Time = 0

V1.16.50.2	11.01.2012

New Features

Bug fixes	
	SFC_022 (CreateDB) Create the DB in the correct file system. Keep old implementation for PCD3.Mxxxx. New implementation is valid for system with uSD cards

V1.16.50	**27.09.2011**
New Features	
Bug fixes	
	FTP cgi DIR command In an error case of allready opened files the cgi ftp DIR command returns a bad formatted text.
	SD Card File System PCD3+ plateforms now requires more files to be available on the internal SD card. The size remains unchanged (128MB) but the number of files to be processed by the PCD is increased to 2500 (including directories).

V1.16.41	**22.07.2011**
New Features	
Bug fixes	
	BIOS/Ethernet If a transmit collision is detected on the Ethernet Phy the PCD does not execute the cyclic programs for 100ms. However it is not possible to send Ethernet telegrams for 100ms.
	Modbus Client When acting as client (sending read and/or write request) and processing responses with malformed MODBUS IP header (length field does not correspond to the MODBUS data), the PCD makes a reboot.

V1.16.39	**04.07.2011**
New Features	
Bug fixes	
	BIOS/Ethernet In case of burst of data on the ethernet, the interrupts are closed for few milliseconds. When they are re-open, the enabled ISR shall correspond to the original open interrupts.
	E-Mail SFB440 E-Mail: Since MTA time-out of 0 is not allowed for connect socket time-out, a default value of 30 sec is set if 0 is passed.
	HTTP In the HTTP File Upload Request a wrong contents length was returned if the files are in the PLC/Blocks directory.

FTP	
	⚐ FTP Transfer error over slow connections, e.g. GPRS. When a slow connection is used to upload (PCD to PC) a big file, the connection may be closed before the end of the transfer due to a timeout in the send process.
	⚐ FTP File list error (length is 0) if filename has exactly 24 characters. When a file name in the file system has exactly 24 characters (maximum allowed size), the FTP list will return a size of 0 for these files. However, it is still possible to copy the file from the SD card with the correct size.
	⚐ If PLC/Blocks files are downloaded over FTP and an compress is required, the PLC returns an error without compressing and downloading the Files.
Periphery Bios	
If the analogue module W340 is added, one or more inputs are configured to PT1000 or NI1000 and Media Mapping is enabled, the PCD crashes with error message "INVALID OPC"	

V1.16.24	08.04.2011
New Features	
Bug fixes	
MPI-Shell	
Cycle Time depends on downloading Blocks over MPI-Shell.	
CAN	
Sending of priority inserted CAN messages by using the CAN Basic services can result in telegram loss in very rare cases.	
E-Mail	
The EMail sending remains blocked with a TBusy equals to 1 and never exits	
HTTP	
• When a HTTP request with a negative range request is send, one byte of data to much is send to the requester.	
• A cgi request generating no content at all, sends a wrong chunk header (trailing 2 bytes).	
• If an WebAccess to PLC media occurred during Power Up, the System could stay in an endless loop.	
• Unkown HTTP Cookies are not skipped correctly. When a PCD Webserver is connected over a forward proxy and the proxy is adding cookies, these cookies hide the cookies send of the PCD webserver.	
FTP	
If 10 users are specified in the configuration, the last one is ignored and the PCD can not be accessed by FTP with the account	

V1.16.09	16.12.2010
New Features	
First Version for PCD3+	

Bug fixes