

# **PCD3.T66x FW 1.16.52 Swer report**

## **1 Summary of Firmware versions**

The under summary presents a short description of all firmware versions which are set on PCD3T66Mx at the production (official versions and exceptionally some intermediate versions \$).

### **Concerning corrected / known bugs:**

Only important bugs are listed here. For other bugs, please refer to the FW trac system that contains more information about known bugs.

## **2 Features or restrictions**

See in the PCD3.T66x\_1.16.52.doc file.

## **3 Modifications realized by SWER number**

### **3.1 Modifications realized for 1.16.52**

#### **2319 bug SF SendSBus(/RecSBus) returns Inv. Par. 5(/4)**

SF SendSBus(/RecSBus) returns Inv. Par. 5(/4) when the destination(/source) media => the partner media is not defined as own media. This error could occur by transferring TextDBs. However the parameter number is given 1 to low.

#### **2303 dev B160 Update: modified functions to read digital I/O states**

The states of the 16 digital input and output channels are now read together with a single function. There is no separate function to get the output states.

#### **2294 bug Bus Error with FDL**

The PCD crash with a Bus Error in the FDL driver.

#### **2226 bug Stop first COB in XOB 16 ends in "bus error"**

If COB first COB (normally 0) is stopped with SCOB instruction in the XOB 16, then a "bus error" occurs at the end of the XOB.

### **3.2 Modifications realized for 1.16.48**

#### **2220 dev Integrate SPIFrame protocol in 1.16 release**

The SPI frame protocol shall be integrated into the release branch. It will be then used for the green phase for M-BUS (limited version of F2 modules) and for the pilote phase of DALI.

### **3.3 Modifications realized for 1.16.47**

#### **2209 bug Diagnostic flags on start without manager**

If the RIO is start without manager then the diagnostic flags are not updated.

#### **2192 bug S-Bus Parity GWY Master with password**

If there is a password set in the Slave station of the S-Bus GWY using parity mode it is not possible to set the password if PG5 try to connect to the slave station. It goes direct online with reduced protocol. However it is recommended to use the S-Bus data mode.

### **3.4 Modifications realized for 1.16.42**

#### **2187 bug Release IO Reset after power on even if PCD is in HALT**

The IO Reset must be released even if the PCD stays in HALT:

#### **2184 bug Clear Mapped Local media on IO Reset**

If the Mapped Local media where not correctly cleared if the IO are reset.

#### **2181 bug Instruction JPD P xx**

The instruction JPD P crashes the PCD.

### **3.5 Modifications realized for 1.16.41**

#### **2165 bug Ethernet Phy reset on transmit collision**

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.

### **3.6 Modifications realized for 1.16.40**

#### **2158 dev Integration of digital I/O module B160 into firmware**

The firmware now supports the new digital I/O module B160

#### **2154 bug Write ROM Text/DB over Web**

A ROM Text/DB should not be possible to write over the Web interface.

#### **2153 bug 2 manager configure on one RIO**

If two manager are configure to use the same RIO the RIO must use the first manager send the configuration. Only if it is no more in data exchange he can switch to the second manager.

#### **2129 bug MODBUS IP Client error with wrong MODBUS IP header**

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 and remains in HALT.

#### **2143 bug RIO telegram synchronisation**

The Telegram synchronisation does not work correctly in every case. In some cases i can happen that the transfer rate is to small if the telegrams where synchronized.

### **3.7 Modifications realized for 1.16.38**

#### **2117 bug Ethernet RIO Input on power on**

If the RIO is power on and the inputs are not 0 then in some cases the mapped input data on the manager goes to 0 for a short time because the RIO sends a 0 at the first data telegram.

#### **2112 bug Text length is not displayed correct**

The text length in the debugger is not displayed correctly.

**2086 dev CSF CopyByte with I/O/F**

The CSF CopyByte with I/O/F copy only one flag in to the BYTE in stead of 8.

**2110 bug Text Error in Web diagnostic tag**

The text "Global Diagnostic" is wrong in the web tag.

### **3.8 Modifications realized for 1.16.36**

**2097 bug TBSY, XBSY flags never reseted during data transmission**

With MC mode running on F2xx module (version \$09, 020) and sending big amount of data (bigger than 250 bytes), it has been seen that the TBSY and/or XBSY flags remains high indefinitely. The data sending is stopped and can only be resumed after a PCD restart is executed.

**1.16.36 2094 bug Ethernet RIO without data exchange**

If there is no data exchange configure in the RIO configurator the RIO was reboot and never run.

### **3.9 Modifications realized for 1.16.33**

**2077 bug Clear Diagnostics button on the config page doesn't work**

Pressing the [Clear Diagnostics] button on the config page doesn't work - the diagnostics data are not cleared. Actually, the webserver returns the error "Page not found"

**2060 bug Ethernet RIO Clear manger diagnostic if no RIO diagnostics**

If there are no diagnostics on the RIO's the manager have still diagnostics stored then it must be deleted otherwise they are still present even if the RIO does not display a diagnostic.

If the manger clears the diagnostics then the diagnostics must also cleared on the RIO's.

**2047 dev Ether-SIO distribute RIO telegrams**

**1996 bug Ether-SIO change IP address without Rebuild project**

Ether-SIO change IP address without Rebuild project.

Remove the manager IP address in the RIO configuration to run the RIO on a reconfigurable network.

**2037 bug Change IP configuration with the PG5 device configurator**

If the HW settings on an Ethernet RIO is downloaded with the PG5 device configurator the new IP address is not immediate changed until the RIO is rebooted.

### **3.10 Modifications realized for 1.16.26**

**2012 bug History Program line**

The program line in the history is not correct.

**2005 bug S-Bus commands STOP,Restart,..**

### **3.11 Modifications realized for 1.16.24**

**1993 bug SASI EM option "PORT: " does not work**

The SASI EM (Ether-S-Bus Master) option "PORT:" does not work.

**1986 bug Bit To Flag transfer function bug**

Bit to flag transfer function doesn't work with a bit shift bigger than 7.

**1980 bug IP Address 0 and DHCP**

Support IP settings and DHCP in the same configuration. If the IP address is set to 0.0.0.0 (0) DHCP is enable else the IP address is used.

**1962 dev CSF to change PIO configuration**

Add CSF to change the PIO configuration

**1955 bug CopyBytes CSF doesn't work correctly**

CopyBytes CSF doesn't work correctly when the destination is a DB < 4000.

**1912 bug Remove XOB & COB Supervision changes**

Remove the XOB supervision & the COB supervision time changes from ticket #1703 & #1753

### **3.12 Modifications realized for 1.16.16**

**1880 bug Smart RIO Global diagnostic**

Display the global diagnostic on the smart RIO web page in text.

**1864 bug SF ReadDeviceInfo - Param bug**

System Funtion ReadDeviceInfo doesn't return an error when a parameter is invalid. For example if a Read only text is given as output parameter, the SF should return an invalid parameter error.

SF should also return a warning in the status in case a Text is truncated.

### **3.13 Modifications realized for 1.16.14**

**1842 bug H114 Media Mapping**

The Media Mapping with the H114 does not work. However the direct access works well.

**1839 bug SF System ReadDeviceInfo and ReadTag - TEXT**

SF System ReadDeviceInfo removes ending space of the TEXT parameter "Fabrication Date" (it shouldn't otherwise the memory is corrupted).

SF System ReadTag removes ending space of all TEXT parameters (it shouldn't otherwise the memory is corrupted).

Both of these SF should allow RAM TEXT and should remove ending space only in RAM TEXT.

**1824 bug Smart RIO S-Bus STOP/RUN,..**

The S-Bus commands STOP/RUN/Reastart should not work on a Smart RIO.

**1821 bug SYSRD 6050/6250 gives error Flag**

The SYSRD 6050/6250 gives error Flag if there is no modem defines

### **3.14 Modifications realized for 1.16.12**

**1812 dev Smart RIO time synchronisation**

Synchronize the time from the manager to the smart RIO. This allows using the time in a smart RIO without any additional programming.

**1807 bug Change XOB supervision time**

Change XOB supervision time to 5 second.

**1785 bug Saving IP Config on the Web page with the form and "GET" method**

When the ip settings of the devices are changed over the web interface and then the user presses <ctrl><r> or <F5> refreshing the browser window to configure the next device, the same settings are applied again. This happens because on submitting the data, the browser's address bar is overwritten with the URL containing the configuration and thus resends the same settings again.

**1778 bug HTTP chunked dynamic zero content**

A cgi request generating no content at all, sends a wrong chunk header (trailing 2 bytes).

**1776 bug HTTP range with negative value**

When a HTTP request with a negative range request is send, one byte of data to much is send to the requester.

**1775 bug CSF copy Media indirect**

Put the CSF Copy media indirect used by the HMI editor in the application library.

**1755 bug CSF in DBX used by HMI editor**

CSF in DBX used by the HMI editor does not work.

**1753 bug COB supervision time**

The COB supervision time is not implemented correctly because it had a tolerance of 10ms. Now a system timer is used with a resolution of 1ms.

**1743 bug SNMP Corrections**

The HW Modification and week number are not displayed correctly when using SNMP get requests.

**1703 bug Program does not end XOB**

If the program does never end an XOB the TCPIP and other low prior functions are no more working. A supervision on the XOB will be implemented. If the XOB does not finish within a minute a system overload is generated.

**1748 bug Remove SYSWR 3000 DB backup**

DB Backup SYSWR 3000 is not supported on smart RIO

**1706 bug File System Compression never ends if a file remains open**

In case a file remains open in the file system, the compression will never stops (waiting for the file to be closed)

### **3.15 Modifications realized for 1.16.06**

**1722 bug Ether-S-IO start-up error**

If the PCD is power on the Ether-S-IO is sent data telegrams before the RIO are configured.

### **3.16 Modifications realized for 1.16.02**

**1679 bug Diagnostic Led**

The diagnostic LED is always set.

**1648 bug DB/Text >4191 does not work**

It is not possible to use DB/Text number bigger than 4191.

**3.17 Modifications realized for 1.16.01**

**1639 bug Indexed Flag instruction with FB parameter Flag > 8191**

Indexed Flag instructions with an FB parameter Flag > 8191 (ex. STHX =1) gives index overflow even if the Flag is not bigger than the last Flag.

**1633 bug Ether-S-IO Status telegram not sent**

If the PCD is restart or a project is downloaded the Ether-S-IO status telegram is no more sanded. If there are no output data the RIO is the in the receive config state.

**1630 bug Access of IO's > 1024 make BUS ERROR**

If the IO's > 1024 are access of the interpreter the PCD makes a BUS ERROR but it must give INVALIDE OPCODE.

**3.18 Modifications realized for 1.16.00**

**1625 dev Send HTTP errors as HTML page**

Send HTTP errors as a HTML formatted page containing the server name.  
The is feature must be activated by the tag CFG-Http,SendHtmlError=1."

**1598 dev Web server: modify the page search priority**

Modify in the Web server the default search page priority. New priority is Web (=> selected pages im Web builder),INTFLASH, M1\_FLASH, M2\_FLASH, SLOFLASH, SL1FLASH, SL2FLASH, SL3FLASH, SLOFLASH.

**3.19 Modifications realized for 1.15.29**

**1596 bug RIO diagnostic Master not present**

The RIO diagnostic flag if the master is not present is not set.

**1595 bug RIO program start without Manager**

If the option "Start Without Manager" is set to TRUE and the RIO is start without the Manager the Led is still RED but the program runs.

**1587 bug Download of program File/RIO/BACnet/LonIP config over S-Bus not possible**

A program File/RIO/BACnet/LonIP configuration is incorrectly downloaded in case the length is marginally bigger than 16kB/32KB,...

**1577 dev Allow WebServer CGI requests on all directory levels**

When projects are stored sub directories on a system, the CGI requests are also send to the sub directory. These requests are rejected by the WebServer. This patch enables CGI requests on all directory levels. An new configuration tag allows to change the behaviour. CFG-Http,LazyCgi (Default:1).

**1563 bug FTP command CWD should return the code 250 and not 200**

As described in RFC 959, the FTP command CWD (Change Working directory) should return the code "250 Requested file action okay, completed" and not "200 Command okay".

**1555 bug SYSCMP does not reset ORAccu**

If SYSCMP is call after an OR or XOR sequence with the first conditions at true (ORA=1) then the result is always ACC high even if the time is elapsed.

**3.20 Modifications realized for 1.15.27**

**1559 bug PCD3.F28x (M-Bus)**

The PCD3.F28x does not work on Ethernet RIO

**1543 bug Led stet when RIO program is not run**

When the RIO program is not in RUN the the Led should be red or read blinking and not green (blinking).

**1.15.27 1542 dev S-Bus address for Ethernet RIO**

The Ethernet RIO need a correct S-Bus address to use the Ether-S-Bus GWY master on a TCP/IP network. The S-Bus address can now set on the web page. Default address is 0.

**1541 dev PHY drivers - configurable**

Adaptation of TCP/IP Stack to allow the configuration of the PHY through TAGs.  
Desynchronization between FEC and PHY bug is also fixed.

**1540 dev Onboard File system size for T665**

Change to onboard file system size for the T665 to 512k

**1520 bug Serial Ports on T666**

The serial ports on T666 does not work.

**1471 bug RIO program don't start with 1ms delay**

The RIO program doesn't start with a delay of 1ms.  
However delays < 10ms does not make sense so start it immediate.

**4 Tools used**

- Windriver Workbench 3.2.0
- Compiler Diab 5.8.0.0