

## **Changelog Firmware 1.5.16.0 for TBEN-Lx-4RFID-8DXP-CDS[-WV]:**

- Introduced new error code
- Enable scrollbars in the displayed license text
- Ensure that all parameters are written on the first write request
- Fixed crashes of the runtime when using PND

## **Changelog Firmware 1.5.10.0 for TBEN-Lx-4RFID-8DXP-CDS[-WV]:**

- Updated to CODESYS Runtime to Service Pack 16
- Added OPC UA Client
- Added VPN Client
- Added dual mac support
- Added SoftContainer for CODESYS licenses
- Added support for USB devices in HID format (e.g. CODESYS License Dongle)
- New Turck Webserver (firmware updates of device, dynamic page refresh, improved user experience for RFID U-interface, more diagnostics etc..)
- Support firmware updates for HF read/write heads in web configuration
- Support for firmware updates for UHF read/write heads in the web configuration
- Web based configuration of UHF parameters added
- Web based UHF tools added:

o RFID-Test:            Simple tool for reading tags without installation of any software

o UHF-Diag: Tools for identifying interference frequencies in all used channels

- Support grouping of User data in HF Continuous Mode
- Continuous reading for Continuous Modus HF with start address = 3
- Support of tag present in HF continuous modes with start address = 2 or 3 and in the Continuous HF bus mode
- Added the read/write head address to data in idle mode of the HF bus mode
- Allow reading specific bytes of UID in Continuous Mode
- HF: Idle mode can be deactivated
- Support of AFI commands for HF
- Support of DSFID commands for HF
- New command Delete Buffer (Cont. Mode)
- New command to change EPC length and write new EPC (UHF)
- Added command codes with fast command processing to web server
- V2 diag and LED behavior for V2 undervoltage are configurable and default behavior was changed
- License information added to the Webserver
- Access to extra diagnostics for RFID
- Webserver: Export Button added to toolbar in Eventlog
- Improved USB Storage function
- Improved diagnostics
- Reduce amount of buttons to set the Date and Time
- Fixed: Alarm handling in PROFINET device

- Fixed: Issues with ACCESS commands in UHF single tag use-cases.
- Fixed: Endless loop cursed by unregister session
- Fixed: Config file for CDS runtime will be restored on reboot.
- Fixed: Issues with tag counter
- Fixed: Load boot applications which name is unequal Application (downloaded by sftp/usb)

### **Changelog Firmware 1.3.2.0 for TBEN-Lx-4RFID-8DXP-CDS[-WV]:**

- Added OPC UA Server support
- Improved security for firmware update via USB Host
- Added options for data in Idle
- Added time measurement of commands and tag present for commissioning
- Change names of RFID commands
- Set USB (RNDIS) address to 10.0.0.249/30
- Resolved issue with 'continuous mode' and 'size of UID/EPC'.
- Fixed problems with access to UHF tags without addressing via EPC
- Fixed issues with parameter 'Heart beat read/write head'
- Errors are displayed as text in the event log
- Reply with correct response code during network discovery
- Continuous Mode in HF multitag mode results in error message.
- Fixed problems after configuration via PactWare.
- EIPSlave: free unused TCP connections after connection timeout

- 'Data (Bytes) available' is now decreased after first data is written to tag (not to R/W head).
- Changed user rights of the PlcLogic folder
- Adapt EIP Slave Product Name to the Product Name specified in the EDS
- Extend the maximum amount of process data up to 1k in each direction

### **Changelog Firmware 1.2.0.0 for TBEN-Lx-4RFID-8DXP-CDS[-WV]:**

- Improved communication driver in case of using RS485.
- Changed default settings of the RNDIS interface (usb0): ip=10.0.0.1, netmask=255.255.255.252
- Production data is readable via MTXP
- Updated CODESYS Runtime to V3.5.11.20
- Added new command 0x0042 to RFID module
- Added locking of multiple blocks in one command
- Added automatic read/write-head addressing in bus mode
- Support of new tag types. All tag types supported by automatic mode
- New Status bit 'HF Read/write head switched on' in RFID module
- Display RFID error codes as text
- New Status bit 'Continuous (Presence Sensing) Mode active'.
- Added USB memory access (direct) via CODESYS-Application.
- Hide unused status bit
- Added some missing or new error codes for RFID.

- Now disconnected R/W heads are detected during command execution.
- Added timezone-support.
- Fixed problems with Direct read/write head commands with 'Length' > 1 with UHF Readers.
- Fixed issues with reading/writing more than 64 bytes user memory in UHF.
- Fixed input bits TNCx TREx PNSx XDx.
- Fixed the output of the serial number of UHF R/W-heads in the command 0x0041.
- Fixed problems with lost connections in bus mode with multiple tag presents.
- PN Device: fix usage of 'OUT 64 BYTE'-module
- Now disconnected R/W heads are detected during command execution.
- Checked settable range of HF R/W head addresses.
- Heart beat function supported for UHF reader.
- Add: driver support for new RTC
- Fixed problems with Command '0x0010 Continuous Mode'.
- Fixed: RFID: file descriptor consumption
- Fixed: BUS LED behavior in case of using Ethernet/IP Slave