

## Release 3.0

**Release Date:** 2014-04-02

**SVN Revision:** 631

**Lib:** 302.0

Changes since last Build:

- CHG: Compatibility changes for TwinCat3... The following are breaking changes:
  - variable "method" in homing parameter not allowed in TC3 -> ReferenceMethod
  - all axis parameters are now set in TL\_AxisSlow.Config
  - move Trialink.FastHandler.pll.BufferTicks to Trialink.Config.FastBufferTicks
  - move TL\_AxisSlow.MC\_axis\_Home.Position to TL\_AxisSlow.referencePosition
- CHG: Error 069 has now a smaller priority than 070. New events 178/179
- NEW: Diagnostic logfile generated on axis errors
  - set path in Trialink.Config.RootFolder
  - an empty path or Trialink.Config.DiagnosticMode is used to disable the feature
  - the number of files in this folder is limited to Trialink.Config.DiagnosticNumberOfFiles
- CHG: move library\_version to Diagnostics
- NEW: Add errors for STO firmware 1040, no parallel errors 130+260, changed event file
- NEW: Trialink.Config.TcEventShowReferenceInfos FALSE disables homing move information messages
- NEW: Trialink.Config.TcEventShowWarnings FALSE disables all warning messages
- NEW: 4th order interpolator for commanded positions accounts for high dynamic trajectories
- NEW: TL\_publishSlave2Master for ts<>ts\_Fast or ts/0.lms<>n
- NEW: TL\_MC\_MoveAbsolute can now react in MAIN\_FAST, see AN108
- CHG: sample codes: new TL\_CNC and TL\_CNC\_AX with task exceed compensation capability

## Release 2.2

**Release Date:** not public released

**SVN Revision:** 553

**Lib:** 226

Changes since last Build:

- NEW: Preparation FOR DMA with rx-iso, rx-asy, AND tx-sdram
- NEW: Disable axis errors if Trialink down. STO errors may be configured in Trialink.Config
- NEW: High resolution actual position
- NEW: More registers for tama and position control parameters
- CHG: TL\_AboSubscriberMaster flexible interpolation and modulo capability on src1
- CHG: MoveAbsolute and MoveVelocity now signal 152=CommandAborted if an axis error stops the move before reaching the final state (standstill or ContinuousMotion)
- NEW: Trialink events "Booting" and "Timeout"
- CHG: tiob: remove unused tRefTick, replace TL\_TiobFast by TL\_AboSubscriberMaster;
- CHG: publish: new fifo and SingleInterpolator for TL\_AboSubscriberMaster
- NEW: each axis has its own event source for simultaneous display
- NEW: Homing: add search info and show them in the event-display

## Release 2.1

**Release Date:** 2013-02-21  
**SVN Revision:** 502  
**Lib:** 219

Changes since last Build:

- CHG: bug fix Float40 of lib
- CHG: Application notes are now in PDF format
- CHG: FPGA localbus device DEVencoder\_in\_out to DEVencoder\_DigIn
- CHG: faster pll initialization
- NEW: Position-latch feature for digital IOs
- CHG: recover MC\_Power on communication down (\*)
- CHG: default direction of moveAbsolute is now shortestway (important for modulo axes)
- NEW: timeout error if boot not successful for 20 seconds
- CHG: improve detection of two masters in the loop
- NEW: readyToOperate output of axis module (bridge voltage and STO detection)
- NEW: distinguish errors and warning for STO and bridge voltage
- FIX: message events block fixed new error problem
- NEW: independent TwinCat errors for axis and (power/homing)
- CHG: priors of errorId of TL\_AxisSlow (1. axis error or warning 2. homing error 3. power error)
- FIX: dualport ram sync problem on rx\_iso fifo and sync warning
- FIX: TL\_publishSlave2Master bug

know bug: recovery of MC\_Power:

when the ring has been opened and closed again and user tries to acknowledge error with HMI reset, error is not cleared.

Solution: set communicationEnable FALSE/TRUE.

## Release 2.0

**Release Date:** 2012-10-03  
**SVN Revision:** 476  
**Lib:** 216

Changes since last Build:

- NEW: major release with changes listed in AN160 (TL\_Trialink, TL\_publishSlave2Slave, Homing)
- NEW: Support STO
- NEW: AN122 for CNC-Error 70091 in Manual und Auto Mode
- NEW: 12 hour bug
- CHG: turn off pwm if MC\_Power.enable=FALSE

## Release 1.8

**Release Date:** 2012-04-12  
**SVN Revision:** 393  
**Lib:** 177

Changes since last Build:

- FIX: Endat 2.1 for more than 32 bits
- CHG: nci-sample code with same structure as cnc