

Release 3.1.0

Release Date: 2015-10-05
SVN Revision: 704
Lib: 310.0 (TC3 only)

Changes since last Build:

- NEW: allow receiving five (single) values per abo
- NEW: TSD80 support: add register layout 19 MC_AXIS.register2 and support for doubles

Release 3.0.5

Release Date: 2015-05-04
SVN Revision: 692
Lib: 305.4 (TC2 &3)

Changes since last Build:

- NEW: ReferenceType Tama, see AN108
- FIX: Check for Session handler garbage collector limit, fixed
- CHG: PLL correction time was $2.5 * \text{fastTaskTime}$, now it is constant 2.5ms.
- CHG: Diagnostic files show position error instead of actual position: Err is not interpolated, act can be seen from cmd in tracking situation (BugFix 4)
- CHG: Diagnostics: adaptations for Explorer scope
- CHG: reorganize error and event priorities
- CHG: avoid double read of publisher abos
- FIX: wrong type of PositionController.ControlOutputCurrentQ
- NEW: Object TL_AboSubscriberMaster5 receives 5 single float values
Object TL_AboSubscriberMaster receives 1 Float40 and 3 single float values (old)
- NEW: add missing commit option for Axis Environment
- CHG: message 075 not trialink "down", but short "shutting down"
- CHG: disable of moving axis first tries an emergency stop if $\text{MaximumStoppingTimeBeforeBrake} < 0$
- CHG: pll: adjust with sample time, different windows for boot and error 179
- CHG: remove obsolete events: 131, 136, 138, 139, 141, 144
- NEW: couple warning/error: sync 178/179 on pll sync problems
- NEW: task exceeds compensation

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