

# **TwinCAT Library: Tria-Link Messages**

### **Application Note AN103**

The Triamec TwinCAT library generates errors, warnings and messages, which are propagated to the user through the TwinCAT Event mechanism. This application note describes all messages and suggests solutions.

This list was generated for library release 3.10.2.

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#### 1 Triamec TwinCAT Trialink Adapter

The messages of Sourceld 3700 are related to the Tria-Link in general or the Tria-Link adapter. The following list starts with the EventId and its class. The first parameter %1 is always the nDevId of the Tria-Link adapter, see alarm 066.

0065 Message Session consistency check

Description An internal error of the session handler

Solution Reduce the number of concurrent accesses to the Tria-Link. If this does not

solve the problem, send a bug report to Triamec Motion AG

Details Class:Alarm; Firmware:LibVersion3.0.0-

0066 Message Trialink PCI board not found

Description The Tria-Link adapter board as specified by the input Trialink.Config.nDevId in

the PLC code was not found in the TwinCat System manager.

Solution Make sure a Tria-Link PCI board is installed and found in the TwinCat System

manager entry for device DPRAM with id=nDevId.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0067 Message Trialink PCI board: FPGA firmware ID must be 1041 or newer

Description The Tria-Link PCI board firmware is outdated

Solution Upgrade to a recent firmware version using the TAM System Explorer

Details Class:Alarm; Firmware:LibVersion3.0.0-

0068 Message Trialink PCI adapter could not be accessed

Description Internal local bus communication to the PCI adapter was not possible.

Solution Shutdown the PC for 20s and reboot, send bug report to Triamec Motion AG.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0069 Message Trialink not closed(%1) or FastCall missing

Description The Tria-Link PCI adapter was found but detected an open Tria-Link ring.

Solution Make sure the ring is closed and all members have gotten 24V. Check cabling.

Check if the fast task is missing.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0070 Message Sampling rate of CallFast is too slow

Description The sampling rate of the CallFast task in the PLC-Code must be faster or equal

than 2ms and faster than CallSlow.

Solution Adjust the sampling rate of CallFast in the PLC code.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0071 Message Smart Sync out of bounds

Description A very large mismatch between the adapter time base and the TwinCat time

has been detected.

Solution Re-Boot the Tria-Link and send an error report to Triamec.

0072 Message Sync warning: too small buffertime or TwinCat task exceeded too

much

Description A mismatch has been detected between the adapter time base and the Twin-

Cat time. This might be an indication of TwinCat task jitter or task Exceeds or

a tight buffer time in Trialink.FastHandler.pll.BufferTicks.

Solution Make sure the TwinCat jitter is low and there are no Task Exceeds. Also make

sure, BufferTicks \* FastTaskTime is larger than TwinCat Jitter.

Details Class:Warning; Firmware:LibVersion3.0.0-

0073 Message Trialink Boot Timeout (%1)

Description The Tria-Link should be booted but did not reach the end of booting.

Solution See solutions for error 069

Details Class:Alarm; Firmware:LibVersion3.0.0-

0074 Message Trialink two masters in the ring (%1)

Description There are two Tria-Link masters in the ring.

Solution Make sure any second PCI board in the ring is configured as "Observer"

Details Class:Alarm; Firmware:LibVersion3.0.0-

0075 Message Trialink shutting down (%1)

Description The Tria-Link has been turned off by the PLC code.

Solution Boot Tria-Link using Trialink.Execute.

Details Class:Message; Firmware:LibVersion3.0.0-

0076 Message Trialink booting (%1)

Description The Tria-Link is currently booting. Solution Wait until booting has finished.

Details Class:Message; Firmware:LibVersion3.0.0-

0077 Message Trialink.Config.Rootfolder is not a valid folder path(%1)

Description The Tria-Link PLC configuration contains an invalid path.

Solution Modify PLC code

Details Class:Message; Firmware:LibVersion3.0.0-

0078 Message FB not supported for TLO400(%1)

Description Old adapter mode not supported for TLO400 (Application note AN134). Solution Modify PLC code and use adapter mode Trialink2 instead of Trialink

Details Class:Message; Firmware:LibVersion3.0.0-

0079 Message The PCIe board firmware is too old (%1)

Description The PCIe firmware is older than the specified minimum firmware version.

Solution Instal an actual firmware and shut down the PC for 15 seconds.

Details Class:Message; ErrorReaction:FW3.9.0-; Firmware:PENDING: No firmware

specified

0080 Message Trialink PCI board unknown

Description The Tria-Link adapter board, respectively the Hardware ID is unknown.

Solution Make sure that the used library supports the Hardware.



## 2 Triamec Tria-Link Messages from the axis object in the library

The messages of SourceId 3701 are related to TwinCAT library axes objects. The first parameter %1 is always the axis ID.

0128 Message Axis internal error (Axis %1)

Description An internal error.

Solution Reboot Tria-Link and send a bug report to Triamec.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0129 Message Axis power RLID not supported (Axis %1)

Description The servo drive found at the specified station address is not compatible.

Solution Is there a second axis configuration in the PLC code that points to a single

axis drive? Is the axis firmware compatible with the library version?

Details Class:Alarm; Firmware:LibVersion3.0.0-

0130 Message No communication with drive (Axis %1)

Description The drive cannot be accessed through the Tria-Link.

Solution Check cabling, check if drive has been made persistent with the correct sta-

tion address and 24V rebooted ones since.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0133 Message PublishAndSubscribe error (Axis %1)

Description Same as Alarm 130

Solution Check usage of TL PublishAndSubscribe with correct station numbers.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0134 Message Axis power enable but missing communication (Axis %1)

Description The drive stopped communicating.

Solution Reboot Tria-Link or reboot 24V and send a bug report to Triamec.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0137 Message Axis power enable failed (Axis %1)

Description Same as Alarm 130. Solution Same as Alarm 130.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0140 Message Axis power enable while NotReadyToSwitchOn (Axis %1)

Description The axis is not ready to be switched on but PLC code tries to enable Solution Make sure any error is cleared and no axis warnings are active.

Details Class:Warning; Firmware:LibVersion3.0.0-

0141 Message Axis move absolute with commanded velocity zero and not dis-

cardVelocity (Axis %1)

Description A move absolute was commanded with input velocity zero and the input dis-

cardVelocity was FALSE. This command was ignored.

Solution Check parameters of the function block TL MoveAbsolute.

0143 Message Axis power enable but no communication (Axis %1)

Description Same as Alarm 130.

Solution

Details Class:Alarm; Firmware:LibVersion3.0.0-

0145 Message Axis power GetBrakeConfig failed (Axis %1)

Description Same as Alarm 130.

Solution

Details Class:Alarm; Firmware:LibVersion3.0.0-

0147 Message Publish buffer full or abold counter overrun (Axis %1)

Description Attempt to acquire too much publish ressources

Solution Check usage of TL\_PublishAndSubscribe in the PLC code.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0148 Message Axis set brake write register failed

Description Same as Alarm 130

Solution

Details Class:Alarm; Firmware:LibVersion3.0.0-

0149 Message Bad axis configuration: bad station or iAxis

Description The PLC code configuration parameters "station" or "iAxis" are illegal.

Solution Correct PLC code

Details Class:Alarm; Firmware:LibVersion3.0.0-

0150 Message Axis MoveAbs/MoveVel/MoveCond commandSend failed (Axis

%1)

Description Same as Alarm 130.

Solution Details

0151 Message Axis MoveAbs/MoveVel axis not ready for move (Axis %1)

Class:Alarm; Firmware:LibVersion3.0.0-

Description A MoveAbsolute or MoveVelocity was commanded but the axis was not

ready to move.

Solution Make sure the axis is enabled and is not in an error state.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0152 Message Axis MoveAbs/MoveVel command aborted (Axis %1)

Description A MoveAbsolute or MoveVelocity command was started but ended before

reaching the final state (standstill or Continuous Motion).

Solution Check, if an axis error or a Tama program or another move command has in-

terrupted the command

Details Class: Warning; Firmware: Lib Version 3.0.0-

0153 Message Axis MoveCondition maximum distance reached (Axis %1)

Description A moveToCondition command has reached the maximum travel distance

without finding the marker or index. For example in a reference move.

Solution Check if the marker or index is connected and shows up at the servo drive IO.

0154 Message MC\_SetPosition failed (Axis %1)

Description It was not possible to stop the axis before setposition or setPosition commu-

nication failed.

Solution Check if an emergency stop was active.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0158 Message Axis Endat failed (Axis %1)

Description Failed to read the endat Position.

Solution Make sure the encoder supports endat 2.1 Details Class:Alarm; Firmware:LibVersion3.0.0-

0170 Message MC\_Stop failed (Axis %1)

Description Same as Alarm 130.

Solution

Details Class:Alarm; Firmware:LibVersion3.0.0-

0171 Message MC\_Reset failed (Axis %1)

Description Same as Alarm 130.

Solution

Details Class:Alarm; Firmware:LibVersion3.0.0-

0178 Message MC\_MoveSync waiting for synchronization (Axis %1)

Description The axis should couple to the external path planner (NC) and is waiting for

PLL synchronization.

Solution This should disappear as soon as the PLL has settled, 10s after booting Tri-

alink.

Details Class:Message; Firmware:LibVersion3.0.0-

0179 Message MC\_MoveSync synchronization lost (Axis %1)

Description The synchronization of the PLL was lost while following the external path

planner (NC). This might cause irregular commanded drive positions.

Solution Check for workpiece irregularities and find what caused irregular calls of the

position task, e.g., check for illegal drivers.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0180 Message MC\_MoveSync, logical axis ID not valid (Axis %1)

Description The logical axis ID iAxis must be between 1 and 32=TL CH AX MAX.

Solution change configuration settings in the PLC code.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0181 Message MoveSync AboSubscribe failed (station%1)

Description Abo subscription failed. There might be too many subscriptions active.

Solution Correct PLC code.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0182 Message MoveSync MoveToStart failed (Axis %1)

Description The initial move before entering couple mode failed. Solution Check if the dynamic settings of the axis are too fast.

0183 Message MoveSync Coupling failed (Axis %1)

Description Entering coupled mode failed

Solution Make sure, the commanded position of the NC/CNC is the same as the actual

position of the drive in the very moment, the coupling command is issued

(axis tracking).

Details Class:Alarm; Firmware:LibVersion3.0.0-

0184 Message MoveSync SetPosition failed (Axis %1)

Description For unknown reasons, the SetPosition command within coupling failed.

Solution This is a special configuration. Please consult Triamec.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0185 Message Axis %1 homing is running: searching switch

Description The axis is currently searching for an IO, e.g., an end marker switch or a mea-

surement tool signal.

Solution

Details Class:Message; Firmware:LibVersion3.0.0-

0186 Message Axis %1 homing is running: searching index

Description The axis is currently searching for an encoder index.

Solution

Details Class:Message; Firmware:LibVersion3.0.0-

0187 Message Tama programm used for homing is not running (Axis %1)

Description The asynchronous TAMA VM has to be enabled.

Solution Load the appropriate tama program used for homing and enable 'start asyn-

chronous Tama virtual machine' in the start up settings (Tam System Ex-

plorer).

Details Class:Alarm; Firmware:LibVersion3.0.0-

0188 Message Tama programm used for homing is not ready (Axis %1)

Description To start the homing sequence, the Tama state has to be IDLE.

Solution Check if the correct Tama program is loaded and if the Tama VM is enabled.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0189 Message Tama homing error (Axis%1)

Description The Tama VM used for homing is in error state.

Solution Check if the Tama program and verify if the precondition to run the homing

sequence are fulfilled.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0191 Message The homing method is not supported (Axis %1)

Description The selected homing method is not supported by drive. For example because

the selected position source is not available

Solution Select a homing method which is supported by the drive.

0192 Message The homing method is not supported (Axis %1)

Description The register layout of the drive is not supported by the library.

Solution Ask Triamec

Details Class:Alarm; Firmware:LibVersion3.0.0-

0194 Message Gear factor is zero (Axis %1)

Description The function was aborted because the gear factor is zero.

Solution Use a gear factor not equal to zero

Details Class:Alarm; Firmware:LibVersion3.0.0-

0261 Message Waiting for drive bridge voltage (Axis %1)

Description The bridge voltage is not within the specified range in General/Parameters/

PowerBridgeVoltageUpperLimit and ...LowerLimit.

Solution Check, if the power supply is on.

Details Class: Warning; Firmware: Lib Version 3.0.0-

0262 Message SafeTorqueOff (STO) is active (Axis %1)

Description The STO feature is active. The drive may currently not be enabled.

Solution Close the STO connector, e.g., the door. If this warning persists with bridged

STO connector, an internal (safety) fuse might be blown.

Details Class:Message; Firmware:LibVersion3.0.0-

0264 Message PLL not locked (Axis %1)

Description An unknown error has disturbed the PLL of the drive Solution Clear the axis error and send a bug report to Triamec.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0265 Message Computing time error (Axis %1)

Description Something exceeded the drive controller calculation time.

Solution Check if a TAMA program is consuming too much calculation load.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0266 Message I2t limit (Axis %1)

Description The I2t limit of the motor or drive has been reached

Solution Clear the axis error and reduce the dynamic settings of the path controller.

Check the parameter Environment/MotorNominalCurrent.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0267 Message Current limit motor or drive (Axis %1)

Description The limit of the current vector is succeeded (motor or drive).

Solution Same as Alarm 266 but check the parameter Environment/MotorPeakCurrent

Details Class:Alarm; Firmware:LibVersion3.0.0-

0268 Message Bridge voltage error (Axis %1)

Description Same as Warning 261, but because it was enabled before, this was consid-

ered an error. This error may also show up, if the application tries to enable an axis before the power supply reached its stable voltage during startup or

before its internal inrush-current-relay turned on.

Solution Clear the axis error, check if the power supply is on.



0269 Message Bridge overcurrent or midvoltage out of range (Axis %1)

Description This can be one of two errors: Either the limit of the power bridge current is

succeeded. This is a hard limit to prevent damage in a short situation. Or the midvoltage controller of a TSP350/TSP700 detected a deviation from midvolt-

age.

Solution Make sure there is no short of the motor and in case of a TSP350/TSP700

check cabling of the DCBus.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0270 Message Temperature limit (Axis %1)

Description A temperature sensor of the drive (motor or internal) has reached the limit

Solution Make sure there is enough cooling of the drive or the motor

Details Class:Alarm; Firmware:LibVersion3.0.0-

0271 Message Voltage out of range (Axis %1)

Description At least one operating voltage is out of range

Solution Check if the encoder shorts its supply voltage. Otherwise the drive hardware

might be damaged.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0272 Message External error (Axis %1)

Description A software error has been triggered

Solution This is application specific. Consider if a TAMA code feature triggers this error.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0273 Message No valid Tama code (Axis %1)

Description The tama code in the servo drive is not valid Solution Download and activate a valid tama code.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0274 Message PERSISTENT parameters are NOT compatible with running

firmware (Axis %1)

Description This is a special firmware upgrade situation

Solution Reload configuration and make the drive persistent again

Details Class:Alarm; Firmware:LibVersion3.0.0-

0275 Message While executing a Tama program, the program memory became

full during heap allocation (Axis %1)

Description A Tama program allocated too much heap.

Solution Check memory allocated using the command "new" in the C# code.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0276 Message While executing a Tama program, an attempt was made to divide

by zero (Axis %1)

Description The Tama code aborted due to a division by zero.

Solution Prevent division by zero.

0277 Message While executing a Tama program, an object property was re-

quested, but there was a null reference (Axis %1)

Description This is a TAMA application code problem.

Solution Prevent calling null reference

Details Class:Alarm; Firmware:LibVersion3.0.0-

0278 Message While executing a Tama program, an array element index was

outside the range of the array (Axis %1)

Description This is a TAMA application code problem.

Solution Make sure index boundaries are maintained.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0279 Message While executing a Tama program, Tama program state was cor-

rupted. This value is returned when an unknown operation code is encoun-

tered (Axis %1)

Description This is a TAMA application code problem.

Solution Send a bug report to Triamec.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0280 Message Position error limit (Axis %1)

Description The position following error has succeeded the maximum distance allowed.

Solution Make sure the axis is free to move and check the parameter PositionCon-

troller/PositionErrorLimit.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0283 Message id or iq error limit (Axis %1)

Description The current vector exceeded to much from the commanded current.

Solution Make sure, the path planner does not command too fast accelerations or

jerks. Check the parameter CurrentController/CurrentErrorLimit.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0284 Message Enable no motor axis (Axis %1)

Description The servo drive configuration does not contain a motor type definition

Solution Make sure, there is a valid Triamec configuration on the drive

Details Class:Alarm; Firmware:LibVersion3.0.0-

0285 Message Analog encoder amplitude too low (Axis %1)

Description The analog encoder amplitude (sin2+cos2) was too low. This is an indication

that the encoder is not connected, or one of the signal lines is damaged.

Solution Repair the encoder

Details Class:Alarm; Firmware:LibVersion3.0.0-

0286 Message Encoder Shorted (Axis %1)

Description The power supply of the encoder is shorted.

Solution Repair the encoder or its cable.

0287 Message Digital Output Shorted (Axis %1)

Description A digital output is shorted.

Solution Repair the device attached to the digital output or its cable.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0288 Message Motor Continous Current Limit (Axis %1)

Description The continuous current limit (I2t) of the motor was reached.
Solution Reduce the current or the dynamic settings of the path planner.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0289 Message Power Bridge Continuus Current Limit (Axis %1)

Description The continuous limit of the power bridge was reached.

Solution Reduce the current or the dynamic settings of the path planner.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0290 Message Hardware monitor on the device is not running (Axis %1)

Description This is an internal error

Solution Reboot 24V and send a bug report to Triamec Details Class:Alarm; Firmware:LibVersion3.0.0-

0293 Message SafeTorqueOff (STO) error (Axis %1)

Description The STO state was detected while the drive was enabled. This causes an error

Solution Clear error. PLC code may disable the axis before entering STO mode.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0294 Message SafeTorqueOff (STO) is inconsistent (only one contact is closed)

(Axis %1)

Description The STO state was entered, but only one channel (one pair of contacts)

where opened. This is illegal.

Solution Make sure STO always opens both channels.

Details Class:Alarm: Firmware:LibVersion3.0.0-

0295 Message SafeTorqueOff (STO) startup test failure (Axis %1)

Description The boot test of the safety circuit failed.

Solution The drive needs to be repaired.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0296 Message SafeTorqueOff (STO) pulse test failure (Axis %1)

Description The internal pulse test of the STO channels failed.

Solution The drive needs to be repaired.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0297 Message SafeTorqueOff (STO) Temperature Limit (Axis %1)

Description The STO circuit detected a temperature failure and entered the safe state.

Solution Make sure temperatures are within the limits and reset the error.



0298 Message Motor Peak Current Limit (Axis %1)

Description The current of a motor phase reached the peak limit of the motor.

Solution Reduce the peak currents or the dynamic settings of the path planner.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0299 Message Power bridge peak current limit (Axis %1)

Description The current of a motor phase reached the peak limit of the power bridge.

Solution Same as for 298.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0300 Message Encoder configuration error (Axis %1)

Description The encoder parameters are inconsistent.

Solution Check the encoder settings.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0301 Message Option module failure (Axis %1)

Description An option module has been configured but is either missing or not func-

tional.

Solution Contact Triamec after verifying that the option module is installed.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0302 Message Encoder databus Error (Axis %1)

Description Digital Encoder data bus is not connected, or communication failed.

Solution Possible cause: faulty wiring, see AN107. Details Class:Alarm; Firmware:LibVersion3.0.0-

0303 Message Encoder not supported (Axis %1)

Description This encoder type is not supported.

Solution Verify with Triamec if the drive supports your version of a (digital) encoder.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0304 Message No digital encoder persistency (Axis %1)

Description The encoder does not contain persistency data.

Solution Find the reference and save persistency as described in AN107.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0305 Message Encoder subresolution error (Axis %1)

Description The sub-resolution of the encoder is ambiguous.

Solution Possible cause: faulty wiring, see AN107. Details Class:Alarm; Firmware:LibVersion3.0.0-

0306 Message Phase Short (Axis %1)

Description The drive detected a short between the motor phases or between a phase

and earth during enabling the axis.

Solution Test Motor wiring.

0307 Message Synchronization Lost (Axis %1)

Description Lost the synchronization between TwinCAT and the drive.

Solution Check Tria-Link cabling and TwinCAT timing.
Details Class:Alarm; Firmware:LibVersion3.0.0-

0308 Message Mid Voltage out of Range (Axis %1)

Description The center voltage of this three level drive is out of specification.

Solution Check motor shortage against earth. If the error persists, call Triamec Motion

AG.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0309 Message PowerSupply or Brake not ok (Axis %1)

Description The power line voltages are out of specification.

Solution Measure the power line voltages.

Details Class: Warning; Firmware: Lib Version 3.0.0-

0310 Message PowerSupply or Brake not ok (Axis %1)

Description The power line voltages are out of specification.

Solution Measure the power line voltages.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0311 Message Gantry Tracking Error (Axis %1)

Description The distance between the two gantry axes was larger than the GantryDevia-

tionLimit.

Solution Check the homing positions of both axes.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0312 Message Commutation 600Hz Limit (Axis %1)

Description The 600Hz commutation frequency limit of this product was reached.

Solution Measure the commutation velocity.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0313 Message Unspecified Position Unit (Axis %1)

Description The position unit is not specified or not known.

Solution Specify Parameter/PositionController.Units.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0314 Message Motor Temperature Limit (Axis %1)

Description The motor temperature limit was reached.

Solution Check the motor temperature sensor cabling.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0315 Message Axis Parameter Error (Axis %1)

Description A parameter of this axis is unknown.

Solution Check for unknown parameter enums in this firmware version.

0316 Message Axis Command Error (Axis %1)

Description A command of this axis is unknown.

Solution Check for unknown or illegal command enums.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0317 Message Disabling of Axis failed. Transmit of command was not confirmed

within timeout. (Axis %1)

Description Disabling of Axis failed. Transmit of command was not confirmed within time-

out.

Solution Reboot Tria-Link and send a bug report to Triamec.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0333 Message Homing: First search: (Axis %1)

Description This message informs about an ongoing homing in the first search state

Solution

Details Class:Message; Firmware:LibVersion3.0.0-

0335 Message Homing: Relocation move: (Axis %1)

Description

This message informs about an ongoing homing in the relocation move state

This message informs about an ongoing homing in the move to home state

Solution

Details Class:Message; Firmware:LibVersion3.0.0-

0344 Message Homing: Second search: (Axis %1)

Description This message informs about an ongoing homing in the second search state

Solution

Details Class:Message; Firmware:LibVersion3.0.0-

0346 Message Homing: Move to home: (Axis %1)

Description

Solution

Details Class:Message; Firmware:LibVersion3.0.0-

0512 Message DirectFeed: Invalid pointer

Description The pAxisSlow argument in TL\_DirectFeedResampling.callSlow is not a valid

pointer to TL AxisSolw array.

Solution Check the pAxisSlow argument in TL DirectFeedResampling.callSlow.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0513 Message DirectFeed: The flag enqueuelsDone is set but the queue is still

empty

Description The flag enqueuelsDone is set but no data were added to the queue.

Solution Check in your code if data were added to the queue before enqueuelsDone is

set.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0514 Message DirectFeed: Data send failed

Description Send data failed because of internal FIFO overflow.

Solution Check Trialink communication.

0515 Message **DirectFeed: Trialink is not ready** 

Description Trialink is not ready.

Solution Check Trialink communication.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0516 Message Invalid sampling rate for direct feed data

Description The requested direct feed sampling rate exceeds the max sampling rate.

Solution Reduce the sampling rate in direct feed data.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0517 Message DirectFeed: Speed override parameter are out of limit.

Description Speed override parameter are out of limit.

Solution Check the documentation for the allowed range of the speed override pa-

rameters.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0518 Message DirectFeed: Invalid axis index

Description Out of range axis index or two table columns with same axis index detected.

Solution Check the axis index of the direct feed data.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0519 Message DirectFeed: Table is nearly empty but import is not done yet

Description The table gets empty and enqueuelsDone is not set.

Solution Check the timing of TL DirectFeedResampling.callSlow call and check if en-

queuelsDone is set correctly.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0520 Message DirectFeed: Abort command failed

Description An error occurred during the abort sequence. Solution Check the axis setup and the abort configuration.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0521 Message DirectFeed: Calculation of speed override parameters failed

Description Calculation of speed override parameters failed.

Solution Check the axis setup and the speed override configuration.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0522 Message DirectFeed: Internal Error

Description Internal Error.

Solution Contact Triamec Motion AG.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0577 Message DirectFeed: Initial position mismatch (Axis %1)

Description Initial position of table does not match with the current axis position. Solution Make sure actual axis position is aligned with the initial table position.



0578 Message DirectFeed: Dynamic limits of table are out of the configured axis

limits. (Axis %1)

Description Dynamic limits of table are out of the configured axis limits. Solution Check the axis configuration or adjust the direct feed tables.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0579 Message DirectFeed: Axis is not ready. (Axis %1)

Description Axis is not ready, coupled and enabled required.

Solution Ensure axes are enabled and coupled before direct feed is executed.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0580 Message DirectFeed: Modulo mismatch. (Axis %1)

Description Configured modulo wrap in header does not match with the configuration of

the axis.

Solution Adjust the modulo configuration.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0581 Message DirectFeed: Position is out of range (Axis %1)

Description Position is out of allowed range.

Solution Adjust the position range or the direct feed position.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0582 Message DirectFeed: Final position mismatch. (Axis %1)

Description The final position of table does not match with the commanded position.

Solution Make sure the axis position is aligned with the final table position.

Details Class:Alarm; Firmware:LibVersion3.0.0-

0583 Message DirectFeed: Velocity is out of limit. (Axis %1)

Description Velocity is out of limit.

Solution Check velocity

Details Class:Alarm; Firmware:LibVersion3.0.0-

0584 Message DirectFeed: Acceleration is out of limit. (Axis %1)

Description Acceleration is out of limit.

Solution Check acceleration.

Details Class:Alarm; Firmware:LibVersion3.0.0-

## **Revision History**

Version	Date	Editor	Comment	
001	2013-01-25	mvx	Copy from Event file and add descriptions and solutions	
002	2013-05-22	mvx	Add comment on bridge voltage error and new errors for firmware 1040	
003	2014-10-20	dg	g Add Reference by Tama information messages 187, 188, 189 (SVN671)	
005	2016-01-19	dg	Messages added used for homing with TSD80 (191,193)	
006	New messages for digital endat encoders. (302305) (TSD80)			
007 2017-09-05 mvx New messages (306309) for (FW1048 and 10		mvx	New messages (306309) for (FW1048 and 1049) (TC2: 305.6 / TC3: 371.7)	



Version	Date	Editor	Comment		
800	2018-06-30	dg	Changed 309 to Warning and added 310 as alarm.		
009	2019-04-29	mvx	New errors 311-316		
010 2020-01-27 dg		dg	New error 317		
011	2022-03-22	chm	Renamed from TwinCAT-ErrorMessages. Restructuring of the whole document.		
012	012 2023-03-06 sm Move EtherCAT Legacy Codes to AN151.		Move EtherCAT Legacy Codes to AN151.		
013 2024-04-04 dg,ab Update to LibRelease 3.10.2 (direct feed error messages add		Update to LibRelease 3.10.2 (direct feed error messages added, correct version field)			

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