Drive Messages

Application Note AN102

Triamec drives generates errors, warnings and messages, which are propagated to the user. This application note describes all messages and suggests solutions.

The list contains a class of *ErrorReactions*. These are described in the last chapter.

This list is generated for firmware release 4.22.

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Document AN102_DriveMessages_EP
Version 007, 2024-04-04
Source Q:\Doc\ApplicationNotes\
Destination T:\doc\ApplicationNotes
Owner mvx

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1 Triamec Drive Messages

The messages in this chapter are related to an axis or its servo drive. In TwinCAT, the sourceId 3702 is used and the parameter %1 is always the *logical axis ID* number.

4161	Message	**PENDING: raw code message: %s update not done %d**
	Description	The firmware update of this component was not done
	Solution	Repeat the firmware update
	Details	Class:Warning; Firmware:FW4.20.0-
4500	Message	**Enable rejected (Axis %1)**
	Description	An Enable request was rejected in axis-state
	Solution	Make sure the device and the encoder is ready for enabling
	Details	Class:Warning; Firmware:FW4.12.14-
4510	Message	**Homing command rejected because of pending error (Axis %1)**
	Description	The homing command was rejected because of a pending error
	Solution	Clear the error and try again
	Details	Class:Warning; Firmware:FW4.16.0-
4520	Message	**Pathplanner command rejected because of pending error (Axis %1)**
	Description	The pathplanner received a command. But this command is not allowed when an error is pending
	Solution	Reset the error
	Details	Class:Warning; Firmware:FW4.16.0-
4521	Message	**Pathplanner command rejected because parameter zero acceleration (Axis %1)**
	Description	The pathplanner received a command which was rejected because the pathplanner AccelerationMaximum was zero
	Solution	Set Parameters.PathPlanner.AccelerationMaximum to the correct value
	Details	Class:Warning; Firmware:FW4.16.0-
4522	Message	**Pathplanner command rejected because parameter zero deceleration (Axis %1)**
	Description	The pathplanner received a command which was rejected because the pathplanner DecelerationMaximum was zero
	Solution	Set Parameters.PathPlanner.DecelerationMaximum to the correct value
	Details	Class:Warning; Firmware:FW4.16.0-
4523	Message	**Pathplanner command rejected because parameter zero velocity (Axis %1)**
	Description	The pathplanner received a command which was rejected because the pathplanner VelocityMaximum was zero
	Solution	Set Parameters.PathPlanner.VelocityMaximum to the correct value
	Details	Class:Warning; Firmware:FW4.16.0-
4524	Message	**Target Position out of Range (Axis %1)**
	Description	The target position of a move was out of the software limits
	Solution	Check Axes[].Parameters.PathPlanner.PositionMaximum/Minimum
	Details	Class:Warning; Firmware:FW4.20.0-

4525	Message	**LimitSwitch reached (Axis %1)**
	Description	A limit switch is covered
	Solution	Move out of the switch and check Axes[].Parameters.Motor.LimitSwitch/
	Details	Class:Warning; Firmware:FW4.20.0-
4526	Message	**PositionError0 tight (Axis %1)**
	Description	The encoder0 positionError exceeded Parameters.PositionController.Controller0.PositionErrorWarning * Parameters.PositionController.Controller0.PositionErrorLimit
	Solution	Consider Parameters.PositionController.Controller0.PositionErrorWarning
	Details	Class:Warning; Firmware:FW4.22.0-
4527	Message	**PositionError1 tight (Axis %1)**
	Description	The encoder1 positionError exceeded Parameters.PositionController.Controller1.PositionErrorWarning * Parameters.PositionController.Controller1.PositionErrorLimit
	Solution	Consider Parameters.PositionController.Controller1.PositionErrorWarning
	Details	Class:Warning; Firmware:FW4.22.0-
4528	Message	**Motor I2t tight (Axis %1)**
	Description	Signals.CurrentController.ContinuousCurrentDiagnostics.MotorU/V/W exceeded Parameters.Motor.NominalCurrentWarning
	Solution	Consider the accumulated maximum Signals.CurrentController.ContinuousCurrentDiagnostics.MotorMax after clearing with General.Commands.ResetDiagnostics
	Details	Class:Warning; Firmware:FW4.22.0-
4529	Message	**Motor peak current tight (Axis %1)**
	Description	Signals.CurrentController.ActualCurrentQ exceeded Parameters.Motor.PeakCurrentWarning * Parameters.Motor.PeakCurrent
	Solution	Consider Parameters.Motor.PeakCurrentWarning
	Details	Class:Warning; Firmware:FW4.22.0-
4737	Message	**AnalogEncoder Opt amplitude error <25% (Axis %1)**
	Description	Analog encoder amplitude smaller than 25% detected (Option Module encoder).
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale.
	Details	Class:Warning; Firmware:FW4.13.13-4.18
4738	Message	**AnalogEncoder amplitude warn <50% (Axis %1)**
	Description	Analog encoder amplitude smaller than 50% detected with the error mask 0x3 enabled in Axes[].Parameters.PositionController.Encoders[].DataFormat.
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale. More information on the DataFormat register can be found in AN107.
	Details	Class:Warning; Firmware:FW4.13.13-

4739	Message	**AnalogEncoder Opt amplitude warn <50% (Axis %1)**
	Description	Analog encoder amplitude smaller than 50% detected with the error mask 0x3 enabled in Axes[].Parameters.PositionController.Encoders[].DataFormat (Option Module encoder).
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale. More information on the DataFormat register can be found in AN107.
	Details	Class:Warning; Firmware:FW4.13.13-4.18
4740	Message	**AbsoluteEncoder flag1 (Axis %1)**
	Description	Absolute encoder flag1 is enabled and triggered an error.
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag1 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Warning; Firmware:FW4.13.13-
4741	Message	**AbsoluteEncoder Opt flag1 (Axis %1)**
	Description	Absolute encoder flag1 is enabled and triggered an error (Option Module encoder).
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag1 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Warning; Firmware:FW4.13.13-4.18
4742	Message	**AbsoluteEncoder flag2 (Axis %1)**
	Description	Absolute encoder flag2 is enabled and triggered an error.
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag2 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Warning; Firmware:FW4.13.13-
4743	Message	**AbsoluteEncoder Opt flag2 (Axis %1)**
	Description	Absolute encoder flag2 is enabled and triggered an error (Option Module encoder).
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag2 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Warning; Firmware:FW4.13.13-4.18
4744	Message	**AbsoluteEncoder crc (Axis %1)**
	Description	Absolute encoder CRC communication error.
	Solution	Check cable conditions and shielding.
	Details	Class:Warning; Firmware:FW4.13.13-
4745	Message	**AbsoluteEncoder Opt crc (Axis %1)**
	Description	Absolute encoder CRC communication error (Option Module encoder).
	Solution	Check cable conditions and shielding.
	Details	Class:Warning; Firmware:FW4.13.13-4.18

4746	Message	**AbsoluteEncoder communication (Axis %1)**
	Description	Absolute encoder communication error.
	Solution	Check cable conditions and shielding.
	Details	Class:Warning; Firmware:FW4.13.13-
4747	Message	**AbsoluteEncoder Opt communication (Axis %1)**
	Description	Absolute encoder communication error (Option Module encoder).
	Solution	Check cable and connector conditions.
	Details	Class:Warning; Firmware:FW4.13.13-4.18
4748	Message	**AnalogEncoder RangePhaseA (Axis %1)**
	Description	Encoder phaseA voltage out of range.
	Solution	Check cable and connector conditions.
	Details	Class:Warning; Firmware:FW4.13.13-
4749	Message	**AnalogEncoder Opt RangePhaseA (Axis %1)**
	Description	Encoder phaseA voltage out of range (Option Module encoder).
	Solution	Check cable and connector conditions.
	Details	Class:Warning; Firmware:FW4.13.13-4.18
4750	Message	**AnalogEncoder RangePhaseB (Axis %1)**
	Description	Encoder phaseB voltage out of range.
	Solution	Check cable and connector conditions.
	Details	Class:Warning; Firmware:FW4.13.13-
4751	Message	**AnalogEncoder Opt RangePhaseB (Axis %1)**
	Description	Encoder phaseB voltage out of range (Option Module encoder).
	Solution	Check cable and connector conditions.
	Details	Class:Warning; Firmware:FW4.13.13-4.18
4752	Message	**Encoder busy (Axis %1)**
	Description	Encoder is busy.
	Solution	Wait until the encoder is ready.
	Details	Class:Warning; Firmware:FW4.18.2-
4753	Message	**Encoder Opt busy (Axis %1)**
	Description	Encoder is busy (Option Module encoder).
	Solution	Wait until the encoder is ready.
	Details	Class:Warning; Firmware:FW4.18.2-4.18
4864	Message	**DC-Bus Voltage upper Limit (Axis %1)**
	Description	The DC-Bus voltage is above General.Parameters.DcBusVoltageUpperLimit or the LowerLimit parameter is larger than the UpperLimit parameter.
	Solution	Check the parameters and measure the power supply voltage.
	Details	Class:Warning; Firmware:FW4.12.14-

4865	Message	**DC-Bus Voltage lower Limit (Axis %1)**
	Description	The DC-Bus voltage is below General.Parameters.DcBusVoltageLowerLimit.
	Solution	Switch on the power supply. If the error persists, check the parameters and measure the power supply voltage.
	Details	Class:Warning; Firmware:FW4.12.14-
4866	Message	**PowerSupply warning (Axis %1)**
	Description	Supply lines are switched off during the charging phase or during operation. Not all phases available if not in SinglePhaseOperation mode.
	Solution	Check the wiring of the supply lines and, if not in SinglePhaseOperation mode, make sure that all three phases are available.
	Details	Class:Warning; Firmware:FW4.12.14-
4867	Message	**Fieldbus not ready (Axis %1)**
	Description	The fieldbus is not connected or not functional.
	Solution	Check the fieldbus master state. If working with EtherCAT, check the settings for Distributed Clock of the master adapter. If working without fieldbus, set General.Parameters.Standalone to True.
	Details	Class:Warning; Firmware:FW4.12.14-
4868	Message	**Power supply not ready (Axis %1)**
	Description	Internal power supply or brake resistor not ready.
	Solution	Check wiring and connector of the AC-Line input.
	Details	Class:Warning; Firmware:FW4.12.14-
4869	Message	**PowerSupply BrakeResistor (Axis %1)**
	Description	The thermal model of the brake resistor issues an overload warning.
	Solution	Allow cooling down.
	Details	Class:Warning; Firmware:FW4.12.14-
4870	Message	**Jitter 10kHz ! (Axis %1)**
	Description	The real-time engine issued a jitter warning. Limits are maintained.
	Solution	No action required.
	Details	Class:Warning; Firmware:FW4.12.14-
4172	Message	**Persistent Register uri unknown (Axis %1)**
	Description	The persistency contains parameter data which is not known anymore in this firmware
	Solution	Decide, if the missing information can be ignored
	Details	Class:Warning; Firmware:FW4.20.0-
4880	Message	**Safety STO warning (Axis %1)**
	Description	The STO circuit is open. Enabling is not possible.
	Solution	Close the STO circuit.
	Details	Class:Warning; Firmware:FW4.12.14-
6145	Message	**HTTP Write failed from (Axis %1)**
	Description	HTTP file upload failed.
	Solution	Retry the upload and consider AN124.
	Details	Class:Alarm; Firmware:FW4.12.14-

6146	Message	**HTTP GET 404 file not found (Axis %1)**
	Description	HTTP GET file not found.
	Solution	The browser requested an unknown file. Use the directory for a list of known files.
	Details	Class:Alarm; Firmware:FW4.12.14-
6147	Message	**HTTP 400 Internal (Axis %1)**
	Description	HTTP GET request of the browser was inconsistent.
	Solution	Retry the request and consider AN124.
	Details	Class:Alarm; Firmware:FW4.12.14-
6148	Message	**HTTP POST 400 Boundary (Axis %1)**
	Description	HTTP GET request without boundary keyword.
	Solution	Retry the request or use another browser
	Details	Class:Alarm; Firmware:FW4.12.14-
6149	Message	**HTTP POST 400 ContentLength (Axis %1)**
	Description	HTTP GET request without ContentLength keyword.
	Solution	Retry the request or use another browser.
	Details	Class:Alarm; Firmware:FW4.12.14-
6150	Message	**HTTP POST 400 file name (Axis %1)**
	Description	HTTP POST file name has more than 31 characters.
	Solution	Use a filename smaller than 31 characters.
	Details	Class:Alarm; Firmware:FW4.12.14-
6151	Message	**HTTP POST 404 file open (Axis %1)**
	Description	HTTP POST file upload to unknown destination.
	Solution	Use the directory for a list of known destination.
	Details	Class:Alarm; Firmware:FW4.12.14-
6152	Message	**HTTP POST 413 Disk Space (Axis %1)**
	Description	HTTP POST file to be uploaded is too large.
	Solution	Check for the maximum file size in the directory.
	Details	Class:Alarm; Firmware:FW4.12.14-
6153	Message	**HTTP POST 413 file write (Axis %1)**
	Description	The file to be written is not writable anymore.
	Solution	Retry the upload and consider AN124.
	Details	Class:Alarm; Firmware:FW4.12.14-
6154	Message	**HTTP POST 400 Early End (Axis %1)**
	Description	HTTP POST file write was finished earlier than expected.
	Solution	Retry the upload.
	Details	Class:Alarm; Firmware:FW4.12.14-

6155	Message	**HTTP POST 408 Timeout (Axis %1)**
	Description	HTTP POST file upload did not continue in time.
	Solution	Retry the upload. Make sure, there are not too many parallel upload sessions.
	Details	Class:Alarm; Firmware:FW4.12.14-
6156	Message	**HTTP Error callback (Axis %1)**
	Description	TCP connection error.
	Solution	Open a new connection.
	Details	Class:Alarm; Firmware:FW4.12.14-
6157	Message	**HTTP DELETE 404 file not found (Axis %1)**
	Description	HTTP DELETE request for unknown file.
	Solution	Consider the directory for a list of known files as described in AN124.
	Details	Class:Alarm; Firmware:FW4.12.14-
6158	Message	**HTTP POST 503 file rejected due to flash wear protection. Retry later (Axis %1)**
	Description	The flash wear protection prevents writing to persistent memory.
	Solution	Let the time stated in the error pass before writing to persistent memory again. In the mean time consider to disable the table persistency (AN 124).
	Details	Class:Alarm; Firmware:FW4.12.14-
6159	Message	**HTTP Error socket format (Axis %1)**
	Description	Wrong format of the websocket.
	Solution	Check the format of the websocket.
	Details	Class:Alarm; Firmware:FW4.12.14-
6165	Message	**Parameter change prohibited in motion (Axis %1)**
	Description	Parameter change in path planner prohibited while in motion (move absolute, relative or coupled motion).
	Solution	Stop the motion and retry.
	Details	Class:Alarm; Firmware:FW4.12.14-
6170	Message	**EoT connection (Axis %1)**
	Description	Too many concurrent file accesses over USB or Tria-Link.
	Solution	Reduce the number of concurrent accesses.
	Details	Class:Alarm; Firmware:FW4.12.14-
6171	Message	**EoT Sending aborted (Axis %1)**
	Description	File access over USB or Tria-Link interrupted.
	Solution	Retry.
	Details	Class:Alarm; Firmware:FW4.12.14-
6172	Message	**EoT Receive code (Axis %1)**
	Description	File access over USB or Tria-Link interrupted.
	Solution	Retry.
	Details	Class:Alarm; Firmware:FW4.12.14-

6173	Message	**EoT connection (Axis %1)**
	Description	File access over USB or Tria-Link interrupted.
	Solution	Retry.
	Details	Class:Alarm; Firmware:FW4.12.14-
6175	Message	**Ethernet unknown Ip4 setting (Axis %1)**
	Description	Illegal value in parameter General.Parameters.Ethernet.IPv4Setting
	Solution	Choose an IPv4 mode known by the firmware.
	Details	Class:Alarm; Firmware:FW4.12.14-
6176	Message	**TCP callback (Axis %1)**
	Description	TCP connection aborted.
	Solution	Retry the TCP connection.
	Details	Class:Alarm; Firmware:FW4.12.14-
6177	Message	**TCP Output (Axis %1)**
	Description	Internal error with a TCP send callback.
	Solution	Retry the TCP connection.
	Details	Class:Alarm; Firmware:FW4.12.14-
6180	Message	**EtherCAT CoE unknown (Axis %1)**
	Description	EtherCAT tried to write or read a CoE register which is unknown
	Solution	Check the PLC source code to only access valid registers
	Details	Class:Alarm; Firmware:FW4.12.14-
6181	Message	**EtherCAT CoE write read-only (Axis %1)**
	Description	EtherCAT tried to write to a read-only CoE register
	Solution	Check the PLC source code to only write to registers with write access.
	Details	Class:Alarm; Firmware:FW4.12.14-
6182	Message	**EtherCAT CoE write error (Axis %1)**
	Description	Writing the CoE register failed
	Solution	Check the PLC source code for valid register addresses.
	Details	Class:Alarm; Firmware:FW4.12.14-
6183	Message	**EtherCAT does not allow BridgeMode (Axis %1)**
	Description	The parameter General.Parameters.Bridge is active.
	Solution	Set this parameter to Disabled on EtherCAT drives.
	Details	Class:Alarm; Firmware:FW4.12.14-
6185	Message	**EtherCAT CoE read error (Axis %1)**
	Description	Reading a CoE register failed.
	Solution	Check the PLC source code for valid register addresses.
	Details	Class:Alarm; Firmware:FW4.12.14-
6186	Message	**EtherCAT PDO Out Ext unknown content (Axis %1)**
	Description	A PDO Out entry contains an unknown URI.
	Solution	Change the PDO entry in General.Parameters.EtherCAT or in the TwinCAT startup settings.
	Details	Class:Alarm; Firmware:FW4.12.14-

6187	Message	**EtherCAT PDO In Ext unknown content (Axis %1)**
	Description	A PDO In entry contains an unknown URI.
	Solution	Change the PDO entry in General.Parameters.EtherCAT or in the TwinCAT startup settings.
	Details	Class:Alarm; Firmware:FW4.12.14-
6188	Message	**EtherCAT PDO Invalid SM IN Config (Axis %1)**
	Description	The number of bits cyclically exchanged by TwinCAT does not correspond to the number of bits defined by the PDO settings.
	Solution	Load the correct ESI file.
	Details	Class:Alarm; Firmware:FW4.12.14-
6189	Message	**EtherCAT PDO Invalid SM OUT Config (Axis %1)**
	Description	The number of bits cyclically exchanged by TwinCAT does not correspond to the number of bits defined by the PDO settings.
	Solution	Load the correct ESI file.
	Details	Class:Alarm; Firmware:FW4.12.14-
6190	Message	**EtherCAT state machine error0x%x states 0x%x -> 0x%x (Axis %1)**
	Description	The EtherCAT state machine got an error.
	Solution	Check the EtherCAT master message.
	Details	Class:Alarm; Firmware:FW4.16.5-
6209	Message	**Hardware fault EMMC (Axis %1)**
	Description	The file system memory is not functional.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; Firmware:FW4.12.14-
6210	Message	**File open failed (Axis %1)**
	Description	Failed to open a file.
	Solution	Ensure that the file is listed in the directory.
	Details	Class:Alarm; Firmware:FW4.12.14-
6211	Message	**File read failed (Axis %1)**
	Description	Failed to read from a file.
	Solution	Verify that no write access is pending.
	Details	Class:Alarm; Firmware:FW4.12.14-
6214	Message	**File not ready (Axis %1)**
	Description	An internal persistence task prevents opening the file.
	Solution	Retry.
	Details	Class:Alarm; Firmware:FW4.12.14-
6215	Message	**File checksum mismatch (Axis %1)**
	Description	File checksum mismatch.
	Solution	If this happens after transferring a file to the drive, ensure that the checksum is correct. If this happens during boot, a persistent file might contain a wrong checksum. Re-transfer and save the original file.
	Details	Class:Alarm; Firmware:FW4.12.14-

6216	Message	**File no write access (Axis %1)**
	Description	File is read-only.
	Solution	Choose a file with write access.
	Details	Class:Alarm; Firmware:FW4.12.14-
6217	Message	**File too large (Axis %1)**
	Description	File is too large.
	Solution	Reduce the file size.
	Details	Class:Alarm; Firmware:FW4.12.14-
6236	Message	**Firmware update failed (Axis %1)**
	Description	The update of a firmware component failed.
	Solution	Restart the update and if the error persists, copy the message and send it to Triamec and include details (The old and new release and the product)
	Details	Class:Alarm; Firmware:FW4.20.0-
6242	Message	**Persistent flash write file rejected due to flash wear protection. Retry later. (Axis %1)**
	Description	The flash wear protection prevents writing to persistent memory.
	Solution	Let the time stated in the error pass before writing to persistent memory again. In the mean time consider to disable the table persistency (AN 124).
	Details	Class:Alarm; Firmware:FW4.12.14-
6273	Message	**Motor temperature limit (Axis %1)**
	Description	The motor temperature is above limit.
	Solution	Check the sensor cables. Check the motor temperature.
	Details	Class:Alarm; Firmware:FW4.12.14-
6274	Message	**Motor BrakeHoldTime out of limit (Axis %1)**
	Description	The parameter Axes[].Parameters.Motor.BrakeHoldTime is too large.
	Solution	Reduce this parameter.
	Details	Class:Alarm; Firmware:FW4.12.14-
6275	Message	**Motor phase short (Axis %1)**
	Description	Detected a motor short current.
	Solution	Remove the motor connector and check if the error disappears. If not, contact Triamec Motion AG.
	Details	Class:Alarm; Firmware:FW4.12.14-
6276	Message	**Enabling but motor type not defined (Axis %1)**
	Description	The parameter Axes[].Parameters.Motor.Type is not set.
	Solution	Set the parameter to the correct motor type.
	Details	Class:Alarm; Firmware:FW4.12.14-
6277	Message	**Motor type changed when enabled (Axis %1)**
	Description	The parameter Axes[].Parameters.Motor.Type has changed in enabled state.
	Solution	Do not change the motor type when enabled.
	Details	Class:Alarm; Firmware:FW4.12.14-FW4.16

6278	Message	**Power bridge I2t limit (Axis %1)**
	Description	The continuous current limit of the drive is reached.
	Solution	Reduce the currents or the accelerations or the duty cycle.
	Details	Class:Alarm; Firmware:FW4.12.14-
6280	Message	**Power bridge peak current limit (Axis %1)**
	Description	The peak current limit of the drive is reached.
	Solution	Reduce the currents or the accelerations.
	Details	Class:Alarm; Firmware:FW4.12.14-
6281	Message	**Motor I2t (Axis %1)**
	Description	The continuous current limit Axes[].Parameters.Motor.NominalCurrent is reached.
	Solution	Ensure the parameter Axes[].Parameters.Motor.CurrentSquareTime is correct. If so, reduce the currents or the accelerations or the duty cycle.
	Details	Class:Alarm; Firmware:FW4.12.14-
6282	Message	**Motor peak current limit (Axis %1)**
	Description	The peak current limit Axes[].Parameters.Motor.PeakCurrent is reached.
	Solution	Reduce the currents or the accelerations.
	Details	Class:Alarm; Firmware:FW4.12.14-
6283	Message	**Axis must be disabled (Axis %1)**
	Description	The axis must be disabled for this action.
	Solution	Disable the axis for this action.
	Details	Class:Alarm; Firmware:FW4.12.14-
6285	Message	**Axis enable not possible (Axis %1)**
	Description	Enabling the axis was ignored because an error is pending or the motor type is None or unsupported.
	Solution	Reset the error before enabling the axis. Check the motor configuration.
	Details	Class:Alarm; Firmware:FW4.12.14-
6286	Message	**EncoderConfigurationError Enc0Enc1 (Axis %1)**
	Description	There is a conflicting encoder configuration in EncoderTopology Standard. Either Ax0Enc0 and Ax1Enc1 are both set or Ax0Enc1 and Ax1Enc0 are both set.
	Solution	Change the parametrization.
	Details	Class:Alarm; Firmware:FW4.12.14-
6287	Message	**Override state leaving but EtherCAT commands enable (Axis %1)**
	Description	An EtherCAT enable command is pending at the very transition from override (attach-mode) to standard mode.
	Solution	Make sure TwinCAT does not try to enable an axis when the Explorer axis is detached.
	Details	Class:Alarm; Firmware:FW4.13.13-

6288	Message	**Commit error (Axis %1)**
	Description	This is an internal error.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; Firmware:FW4.16.0-
6290	Message	**Pathplanner parameter modulo min>max (Axis %1)**
	Description	The Pathplanner modulo minimum is larger than the maximum.
	Solution	Change Axes[].Parameters.PathPlanner.ModuloPositionMinimum or ModuloPositionMaximum.
	Details	Class:Alarm; Firmware:FW4.12.14-
6291	Message	**Pathplanner unknown Mode (Axis %1)**
	Description	Illegal Axes[].Parameters.PathPlanner.Mode setting.
	Solution	Check if this firmware release supports the selected mode.
	Details	Class:Alarm; Firmware:FW4.12.14-
6292	Message	**Pathplanner unknown StreamLossAction (Axis %1)**
	Description	Illegal Axes[].Parameters.PathPlanner.StreamLossAction setting.
	Solution	Check if this firmware release supports the selected StreamLossAction.
	Details	Class:Alarm; Firmware:FW4.12.14-
6293	Message	**Pathplanner unknown StreamInterpolationMode (Axis %1)**
	Description	Illegal Axes[].Parameters.PathPlanner.StreamInterpolationMode setting.
	Solution	Check, if this firmware release supports the selected StreamInterpolationMode.
	Details	Class:Alarm; Firmware:FW4.12.14-
6294	Message	**Pathplanner InterpolatorDelay not within +-50us (Axis %1)**
	Description	Axes[].Parameters.PathPlanner.InterpolatorDelay is out of range.
	Solution	Modify this parameter.
	Details	Class:Alarm; Firmware:FW4.12.14-
6295	Message	**Pathplanner couple act= (Axis %1)**
	Description	Coupling to the external position stream failed because the positions deviate from the actual position by more than the PositionErrorLimit.
	Solution	Ensure that external positions are equal to the actual position during coupling.
	Details	Class:Alarm; Firmware:FW4.12.14-
6296	Message	**Pathplanner synchronization lost (Axis %1)**
	Description	The stream of external positions ceased while the pathplanner was coupled to the stream.
	Solution	Re-enter the coupled motion mode. The ErrorReaction depends on the setting in Parameters.PathPlanner.StreamLossAction.
	Details	Class:Alarm; ErrorReaction:[ErrorStop, ErrorStopDisable]; Firmware:FW4.12.14-

6297	Message	**Pathplanner Parameter SoftwareLimits min>max (Axis %1)**
	Description	The pathplanner Axes[].Parameters.PathPlanner.PositionMin is larger than PositionMax.
	Solution	Correct the parameters.
	Details	Class:Alarm; Firmware:FW4.16.0-
6298	Message	**Target Position out of Range (Axis %1)**
	Description	The pathplanner targets a position outside the software limits Axes[].Parameters.PathPlanner.PositionMinimum or PositionMaximum.
	Solution	Check the limit parameters. Keep inside the legal motion range. If actual position is out of range, move back to a valid position.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.16.0-
6299	Message	**LimitSwitch reached (Axis %1)**
	Description	The axis ran into a limit switch Axes[].Parameters.Motor.LimitSwitch.
	Solution	Move back to the valid range or consider changing the LimitSwitch parameters.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.16.0-
6300	Message	**PositionController PositionUnit unspecified (Axis %1)**
	Description	Axes[].Parameters.PositionController.PositionUnit is unspecified.
	Solution	Set a unit.
	Details	Class:Alarm; Firmware:FW4.12.14-
6301	Message	**Illegal PositionController MasterPositionSource (Axis %1)**
	Description	Illegal Axes[].Parameters.PositionController.MasterPositionSource setting.
	Solution	Make sure this firmware release supports the selected source.
	Details	Class:Alarm; Firmware:FW4.12.14-
6302	Message	**PositionController PositionErrorLimit0 I= (Axis %1)**
	Description	The position error of Controller0 exceeded the limit setting at Axes.Parameters.PositionController.PositionErrorLimit
	Solution	Ensure that the entire travel path of the axis is clear. Consider relaxing the limit or optimizing the controller.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6303	Message	**PositionController PositionErrorLimit1 I= (Axis %1)**
	Description	The positionError of controller1 exceeded the limit Axes.Parameters.PositionController.PositionErrorLimit
	Solution	Check, if an obstacle caused the deviation or if the limit should be relaxed or if the controller should be optimized.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6320	Message	**Sensorless only for AC motors (Axis %1)**
	Description	Sensorless mode is only available for synchronous AC motors.
	Solution	Turn off Sensorless mode in Axes[].Parameters.PositionController.Encoders[].Type, if Axes[].Parameters.Motor.Type is not Synchronous.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-

6321	Message	**Motor phase current: Significant deviation between PowerBridges (Axis %1)**
	Description	Significant current deviation between power bridges.
	Solution	Navigate to Axes[].Signals.CurrentController.actualCurrentDetail. Use the scope to compare aU with bU etc when the error happens and Contact Triamec Motion AG if the error is frequently observed.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6330	Message	**Commutation unknown EnablingMethod (Axis %1)**
	Description	Axes[].Commutation.EnablingMethod is unknown.
	Solution	Make sure the firmware release supports this method.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6331	Message	**Enable command no valid commutation (Axis %1)**
	Description	A synchronous motor requires a valid commutation Axes[].Parameters.Commutation.PhasingMethod.
	Solution	Set the parameters Axes[].Parameters.Commutation.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6332	Message	**Commutation Unknown Command (Axis %1)**
	Description	Unknown Axes[].Commands.Commutation.Command
	Solution	Make sure the firmware release supports this command.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6333	Message	**Commutation restart bad state (Axis %1)**
	Description	Axes[].Commands.Commutation.Command tried to re-start phasing, but the axis is not in a proper state.
	Solution	The axis must be ready for operation but not Enabled for StartPhasingAndZeroEncoder and it must not be in motion for other commands.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6334	Message	**Commutation command (Axis %1)**
	Description	Incompatible motor configuration for command issued in Axes[].Commands.Commutation.Command.
	Solution	Use this command with an AC motor configuration only. Check Axes[].Parameters.Motor.Type
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6335	Message	**Commutation command (Axis %1)**
	Description	Incompatible encoder configuration for command issued in Axes[].Commands.Commutation.Command.
	Solution	Use this command with an absolute encoder only. Check Axes[].Parameters.PositionController.Encoders[].Type
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6336	Message	**Commutation integrator limit (Axis %1)**
	Description	The phasing controller did not settle.
	Solution	Ensure that the axis is freely movable during phasing.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-

6337	Message	**Commutation 600HzLimit vel= (Axis %1)**
	Description	Maximum commutation velocity of 600Hz reached.
	Solution	Reduce the velocity or replace the product by a high-speed variant.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6338	Message	**Commutation invalidated (Axis %1)**
	Description	An external command invalidated the commutation while enabled.
	Solution	Find and fix the cause of the invalidation command.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6339	Message	**AbsoluteEncoder command (Axis %1)**
	Description	The absolute encoder returned an error while processing the command issued in Axes[].Commands.Commutation.Command.
	Solution	Check the Log for encoder errors for more information.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6340	Message	**Commutation encoder is disabled (Axis %1)**
	Description	An encoder which is used for the commutation is disabled.
	Solution	Set the correct encoder type for all encoders referenced by Parameters.Commutation.Source.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.18.2-
6341	Message	**Sine excitation longer than commutation duration (Axis %1)**
	Description	In Axes[].Parameters.Commutation, 3/SineFrequency must be smaller than RampRiseTime + 0.8*RampConstTime.
	Solution	Increase the SineFrequency or the RampConstTime.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.19.0-
6350	Message	**Homing Start commanded, but not ready for movement Err= (Axis %1)**
	Description	The axis was not ready to move when issuing a homing start command.
	Solution	The axis must be enabled before homing.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6351	Message	**Homing FirstSearch early trigger at (Axis %1)**
	Description	Trigger detected within the first 5ms of the homing FirstSearchMove.
	Solution	Check for EMC noise on the source defined in Axes[].Parameters.Homing.FirstSearchMove.EventInput.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6352	Message	**Homing FirstSearch motion error (Axis %1)**
	Description	Detected a motion error during homing FirstSearchMove.
	Solution	Check for obstacles in the axis pathway.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6353	Message	**Homing Relocation move motion error (Axis %1)**
	Description	Detected a motion error during homing RelocateMove.
	Solution	Check for obstacles in the axis pathway.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

6354	Message	**Homing SecondSearch early trigger at (Axis %1)**
	Description	Trigger detected within the first 5ms of the homing SecondSearchMove.
	Solution	Check for EMC noise on the source defined in Axes[].Parameters.Homing.SecondSearchMove.EventInput.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6355	Message	**Homing SecondSearch trigger not found at (Axis %1)**
	Description	The homing SecondSearchMove reached the SignedMaxDistance without finding the trigger.
	Solution	Check the source defined in Axes[].Parameters.Homing.SecondSearchMove.EventInput. Consider increasing the SignedMaxDistance value.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6356	Message	**Homing SecondSearch motion error (Axis %1)**
	Description	Detected a motion error during the homing SecondSearchMove.
	Solution	Check for an obstacle in the axis pathway.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6357	Message	**Homing MoveHome motion error (Axis %1)**
	Description	Detected a motion error during the MoveToHomePosition move.
	Solution	Check for an obstacle in the axis pathway.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6358	Message	**Homing FirstSearch trigger not found at (Axis %1)**
	Description	The homing FirstSearchMove reached the SignedMaxDistance without finding the trigger.
	Solution	Check the source defined in Axes[].Parameters.Homing.FirstSearchMove.EventInput. Consider increasing the SignedMaxDistance value.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6359	Message	**Homing FirstSearch unknown par (Axis %1)**
	Description	The parameter Axes[].Parameters.Homing.FirstSearchMove.EventInput is either unknown, or already defined in a search move of an other axis on the same drive.
	Solution	Ensure the combinations of EventInput and EventAxis in multiple axes are unique across one drive.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6360	Message	**Homing SecondSearch unknown par (Axis %1)**
	Description	The parameter Axes[].Parameters.Homing.SecondSearchMove.EventInput is either unknown, or already defined in a search move of an other axis on the same drive. Skip is not allowed for this parameter!
	Solution	Ensure the combinations of EventInput and EventAxis in multiple axes are unique across one drive.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

6361	Message	**Homing timeout (Axis %1)**
	Description	The axis was in motion when issuing SetPosition in Axes[].Commands.Homing.Command.
	Solution	Issuing SetPosition is allowed exclusively when the axis is in Standstill, Disabled or in DirectCoupled but not moving.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6362	Message	**Homing start for absolute encoder, which is not ready (Axis %1)**
	Description	An absolute encoder command Axes[].Commands.Homing.Command was received, but the encoder is not ready.
	Solution	Make sure the absolute encoder Axes[].Parameters.PositionController.Encoders[] is setup and working properly.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6363	Message	**Homing command (Axis %1)**
	Description	The current method in Axes[].Parameters.Homing.Method does not allow saving a position to the absolute encoder.
	Solution	Set Axes[].Parameters.Homing.Method to a setting with suffix OffsetEncoder before using the command SaveEncoder in Axes[].Commands.Homing.Command.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6364	Message	**Homing command (Axis %1)**
	Description	The commands SaveEncoder or InvalidateEncoder in Axes[].Commands.Homing.Command are illegal while the axis is enabled.
	Solution	Disable the axis before issuing these commands.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6365	Message	**Homing command incompatible with method (Axis %1)**
	Description	Illegal command Start in Axes[].Commands.Homing.Command for the setting in Axes[].Parameters.Homing.Method.
	Solution	Check the setting in Axes[].Parameters.Homing.Mode.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6366	Message	**Homing unknown Method (Axis %1)**
	Description	Unknown setting in Axes[].Parameters.Homing.Mode.
	Solution	Ensure that the installed firmware supports this homing mode.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6371	Message	**Gantry error (Axis %1)**
	Description	The other axis of the gantry threw an error.
	Solution	Refer to the error of the other axis.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6372	Message	**Gantry not allowed with encoder (Axis %1)**
	Description	Gantry is not supported with the current encoder type configuration.
	Solution	Use encoders of type Incremental or Analog.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-

6373	Message	**Gantry not allowed for modulo axes (Axis %1)**
	Description	Gantry is not allowed for modulo axes.
	Solution	Set the modulo parameters at Axes[].Parameters.Pathplanner to 0.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6374	Message	**Gantry enable rejected because axis is not active (Axis %1)**
	Description	Gantry enable is not allowed if an axis is not active.
	Solution	Set Axes[].Comamnds.PositionController.Active to True.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.16.0-
6376	Message	**Option Parameter Range (Axis %1)**
	Description	Unknown value in Axes[].Parameters.OptionModule.AN_Range or AO_Range.
	Solution	Check if this firmware supports the specified range.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6377	Message	**Option Function (Axis %1)**
	Description	The Option Module does not function properly.
	Solution	Contact Triamec Motion AG, if the error persists.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6378	Message	**OptionModule encoder missing (Axis %1)**
	Description	An Option Module is configured but not available.
	Solution	Check Axes[].Parameter.PositionController.Encoders[].Type and General.Parameters.EncoderTopology
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.12.14-
6379	Message	**SPI (Axis %1)**
	Description	The Option Module SPI connection error.
	Solution	Call Triamec Motion AG if the error persists
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6390	Message	**Pathplanner command %s rejected because parameter jerk or drf zero (Axis %1)**
	Description	The Pathplanner Jerk or DynamicReductionFactor is zero. This is mandatory for correct behavior of emergency stop.
	Solution	Check Axes[].Parameter.PathPlanner.Jerk and Axes[].Parameter.PathPlanner.DynamicReductionfactor.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.16.0-
6391	Message	**Pathplanner command %s rejected because parameter deceleration zero (Axis %1)**
	Description	The Pathplanner Deceleration parameter or command is zero. This is mandatory for correct behavior of emergency stop.
	Solution	Check Axes[].Parameter.PathPlanner.Deceleration
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.16.0-
6392	Message	**Pathplanner command %s rejected in axis state %s (Axis %1)**
	Description	This pathplanner command is not allowed in the current axis state.
	Solution	Make sure the axis is in a valid state for this command.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.16.0-

6393	Message	**Pathplanner emergency stop (Axis %1)**
	Description	The Pathplanner received an emergency stop command.
	Solution	Reset the error.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.20.0-
6400	Message	**Axis Compensation bad table header parameter file (Axis %1)**
	Description	The axis compensation function points to a table with inconsistent parameters.
	Solution	Make sure the referenced table (Parameters.Compensations.Axis.Table) is valid and check its header parameters for size and type.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.18.2-
6401	Message	**Axis Compensation unknown uri (Axis %1)**
	Description	The axis compensation function uses an illegal uri in Parameters.Commpensations.Axis.DimNSource.
	Solution	Make sure this uri exists.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.18.2-
6410	Message	**Cogging Table unknown parameter file (Axis %1)**
	Description	The Parameters.Compensation.Cogging function uses an illegal parameter.
	Solution	If the source is MotorTurn, make sure, StatorDecoupling mode is not used.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.18.2-
6411	Message	**Cogging Table bad header in file (Axis %1)**
	Description	The cogging table specified by Parameters.Compensations.Cogging.Table is not available or its header is not valid.
	Solution	Make sure, Dim1.Distance!=0 and Dim1.Size!=0 and Dim2.Size=1 and Dim3.Size=1.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.18.2-
6420	Message	**PositionError analysis inconsistent parameter (Axis %1)**
	Description	The Time parameter is smaller than 0.1ms for modes StandardDeviation, ISE and ITSE or the Mode is not known.
	Solution	Set a valid time parameter and check the Mode setting.
	Details	Class:Alarm; ErrorReaction:ErrorStop; Firmware:FW4.18.2-
6791	Message	**Encoder option module not found (Axis %1)**
	Description	An Option Module encoder is used but there is no option module in this axis.
	Solution	Change the encoder configuration.
	Details	Class:Alarm; Firmware:FW4.16.0-4.18
6792	Message	**Encoder (Axis %1)**
	Description	The encoder type is unknown.
	Solution	Choose a valid encoder type.
	Details	Class:Alarm; Firmware:FW4.12.14-
6793	Message	**Encoder (Axis %1)**
	Description	The encoder type is unknown (Option Module encoder).
	Solution	Choose a valid encoder type.
	Details	Class:Alarm; Firmware:FW4.16.0-4.18

6794	Message	**Sensorless encoder is not commutation encoder (Axis %1)**
	Description	Illegal configuration of Encoder[1].Type = Sensorless.
	Solution	Only Encoder[0] is allowed for Sensorless motion. Change the encoder configuration.
	Details	Class:Alarm; Firmware:FW4.12.14-
6796	Message	**AbsoluteEncoder no encoder persistency (Axis %1)**
	Description	The encoder nameplate contains no encoder persistency data.
	Solution	Consider the application note AN107.
	Details	Class:Alarm; Firmware:FW4.12.14-
6797	Message	**AbsoluteEncoder Opt no encoder persistency (Axis %1)**
	Description	The encoder nameplate contains no encoder persistency data (Option Module encoder).
	Solution	Consider the application note AN107.
	Details	Class:Alarm; Firmware:FW4.16.0-4.18
6800	Message	**Save encoder timeout cmd= (Axis %1)**
	Description	Timeout while saving persistency data to the encoder.
	Solution	Check encoder cabling.
	Details	Class:Alarm; Firmware:FW4.12.14-
6801	Message	**Save Opt encoder timeout cmd= (Axis %1)**
	Description	Timeout while saving persistency data to the option module encoder.
	Solution	Check encoder cabling.
	Details	Class:Alarm; Firmware:FW4.16.0-4.18
6816	Message	**AbsoluteEncoder SubResolutionError (Axis %1)**
	Description	Lost alignment of the absolute encoder position with its analog sub resolution.
	Solution	Check if the analog encoder signals A/B wiring is correct. See also AN107.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6817	Message	**AbsoluteEncoder Opt SubResolutionError (Axis %1)**
	Description	Lost alignment of the absolute encoder position with its analog sub resolution (Option Module encoder).
	Solution	Check if analog phase A/B wiring is correct.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6818	Message	**Encoder short or overload (Axis %1)**
	Description	The encoder supply is shorted or overloaded.
	Solution	Check for correct wiring. Check cable conditions on previously running machines. Check current consumption of the encoder.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6819	Message	**EncoderShort Opt (Axis %1)**
	Description	The Option Module encoder supply is shorted.
	Solution	Check for correct wiring. Check cable conditions on previously running machines.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-4.18

6820	Message	**AbsoluteEncoder Dataformat (Axis %1)**
	Description	Illegal string in Axes[].Parameters.PositionController.Encoders[].DataFormat.
	Solution	Check the string at the character position indicated in the error message. Check for allowed DataFormat tags in AN107.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6821	Message	**AbsoluteEncoder Opt Dataformat at (Axis %1)**
	Description	Illegal string in Axes[].Parameters.PositionController.Encoders[].DataFormat for an Option Module encoder.
	Solution	Check the string at the character position indicated in the error message. Check for allowed DataFormat tags in AN107.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6822	Message	**AbsoluteEncoder incPerUnit is zero (Axis %1)**
	Description	The Endat hardware incPerUnit is zero.
	Solution	Check if this encoder is compatible.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6823	Message	**AbsoluteEncoder Opt incPerUnit is zero (Axis %1)**
	Description	The Endat hardware incPerUnit is zero.
	Solution	Check if this encoder is compatible.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6824	Message	**AbsoluteEncoder signalPeriod is zero (Axis %1)**
	Description	The Endat hardware signalPeriod is zero which is not compatible with encoder type AnalogEndat.
	Solution	Check if this encoder is compatible.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6825	Message	**AbsoluteEncoder Opt signalPeriod is zero (Axis %1)**
	Description	The Endat hardware signalPeriod is zero which is not compatible with encoder type AnalogEndat.
	Solution	Check if this encoder is compatible.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6826	Message	**AbsoluteEncoder unknown command (Axis %1)**
	Description	The encoder does not support the requested command.
	Solution	Check which commands are possible for this encoder in AN107.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6827	Message	**AbsoluteEncoder Opt unknown command (Axis %1)**
	Description	The encoder does not support the requested command.
	Solution	Check which commands are possible for this encoder in AN107.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6828	Message	**AbsoluteEncoder unknown type (Axis %1)**
	Description	Unknown value in Axes[].Parameters.PositionController.Encoders[].Type.
	Solution	Check if the firmware supports this encoder type.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

6829	Message	**AbsoluteEncoder Opt unknown type (Axis %1)**
	Description	Unknown value in Axes[].Parameters.PositionController.Encoders[].Type for an Option Module encoder.
	Solution	Check if the firmware supports this encoder type.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6830	Message	**AbsoluteEncoder internal error (Axis %1)**
	Description	Encoder setup failed due to an internal error.
	Solution	Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6831	Message	**AbsoluteEncoder Opt internal error (Axis %1)**
	Description	Option Module encoder setup failed due to an internal error.
	Solution	Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6832	Message	**AbsoluteEncoder databus error (Axis %1)**
	Description	Communication with the encoder hardware failed.
	Solution	Check encoder databus wiring.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6833	Message	**AbsoluteEncoder Opt databus error (Axis %1)**
	Description	Communication with the Option Module encoder hardware failed.
	Solution	Check encoder databus wiring.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6834	Message	**AbsoluteEncoder cable length calibration (Axis %1)**
	Description	The Endat cable length calibration failed.
	Solution	Reduce the cable length or consider turning off the calibration with the setting Encoders[].DataFormat = M2.
	Details	Class:Alarm; Firmware:FW4.12.14-
6835	Message	**AbsoluteEncoder Opt cable length calibration (Axis %1)**
	Description	The Endat cable length calibration failed (Option Module encoder).
	Solution	Reduce the cable length or consider turning off the calibration with the setting Encoders[].DataFormat = M2.
	Details	Class:Alarm; Firmware:FW4.12.14-4.18
6836	Message	**AbsoluteEncoder nameplate access (Axis %1)**
	Description	Failed to access the digital nameplate of the absolute encoder holding homing and commutation information.
	Solution	Check if the encoder supports saving customer data.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6837	Message	**AbsoluteEncoder Opt nameplate access (Axis %1)**
	Description	Failed to access the digital nameplate of the absolute encoder holding homing and commutation information (Option Module encoder).
	Solution	Check if the encoder supports saving customer data.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18

6838	Message	**AbsoluteEncoder set zero (Axis %1)**
	Description	Encoder set zero failed.
	Solution	Check if the encoder supports zeroing.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6839	Message	**AbsoluteEncoder Opt set zero (Axis %1)**
	Description	Option module encoder set zero failed.
	Solution	Check if the encoder supports zeroing.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-4.18
6848	Message	**AnalogEncoder amplitude error <25% (Axis %1)**
	Description	Analog encoder amplitude is smaller than 25% detected.
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6849	Message	**AnalogEncoder opt amplitude error <25% (Axis %1)**
	Description	Analog encoder amplitude smaller than 25% detected (Option Module encoder).
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-4.18
6850	Message	**AnalogEncoder amplitude warn <50% (Axis %1)**
	Description	Analog encoder amplitude smaller than 50% detected with the error mask 0x3 enabled in Axes[].Parameters.PositionController.Encoders[].DataFormat.
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale. More information on the DataFormat register can be found in AN107.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6851	Message	**AnalogEncoder Opt amplitude warn <50% (Axis %1)**
	Description	Analog encoder amplitude smaller than 50% detected with the error mask 0x3 enabled in Axes[].Parameters.PositionController.Encoders[].DataFormat (Option Module encoder).
	Solution	Adjust the alignment of the encoder head to the scale according to the instructions of the manufacturer. Clean the scale. More information on the DataFormat register can be found in AN107.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6852	Message	**AbsoluteEncoder flag1 (Axis %1)**
	Description	Absolute encoder flag1 is enabled and triggered an error.
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag1 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-

6853	Message	**AbsoluteEncoder Opt flag1 (Axis %1)**
	Description	Absolute encoder flag1 is enabled and triggered an error (Option Module encoder).
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag1 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6854	Message	**AbsoluteEncoder flag2 (Axis %1)**
	Description	Absolute encoder flag2 is enabled and triggered an error.
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag2 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6855	Message	**AbsoluteEncoder Opt flag2 (Axis %1)**
	Description	Absolute encoder flag2 is enabled and triggered an error (Option Module encoder).
	Solution	Determine and solve the cause of the encoder error. Consider disabling flag2 using Axes[].Parameters.PositionController.Encoders[].DataFormat. More information on the DataFormat register can be found in AN107.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6856	Message	**AbsoluteEncoder crc (Axis %1)**
	Description	Absolute encoder CRC communication error.
	Solution	Check cable conditions and shielding.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6857	Message	**AbsoluteEncoder Opt crc (Axis %1)**
	Description	Absolute encoder CRC communication error (Option Module encoder).
	Solution	Check cable conditions and shielding.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6858	Message	**AbsoluteEncoder communication (Axis %1)**
	Description	Absolute encoder communication error.
	Solution	Check cable conditions and shielding.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6859	Message	**AbsoluteEncoder Opt communication (Axis %1)**
	Description	Absolute encoder communication error (Option Module encoder).
	Solution	Check cable conditions and shielding.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6860	Message	**AnalogEncoder RangePhaseA (Axis %1)**
	Description	Encoder phaseA voltage out of range.
	Solution	Check cable and connector conditions.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-

6861	Message	**AnalogEncoder Opt RangePhaseA (Axis %1)**
	Description	Encoder phaseA voltage out of range (Option Module encoder).
	Solution	Check cable and connector conditions.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6862	Message	**AnalogEncoder RangePhaseB(Axis %1)**
	Description	Encoder phaseB voltage out of range.
	Solution	Check cable and connector conditions.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-
6863	Message	**AnalogEncoder Opt RangePhaseB (Axis %1)**
	Description	Option encoder phaseB voltage out of range (Option Module encoder).
	Solution	Check cable and connector conditions.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-4.18
6913	Message	**Fieldbus not ready (Axis %1)**
	Description	The fieldbus is not ready.
	Solution	Check the fieldbus condition and cabling. If working with EtherCAT, check the settings for Distributed Clock of the master adapter.
	Details	Class:Alarm; Firmware:FW4.12.14-
6914	Message	**ComputingTime Order (Axis %1)**
	Description	Internal error of the real-time scheduler.
	Solution	Contact Triamec Motion AG with the information, under which conditions the error appeared.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6916	Message	**ComputingTime TamaIso entry (Axis %1)**
	Description	The computing time of the isochronous Tama task was too long.
	Solution	Change the Tama code Task.IsochronousMain to reduce the computing time.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6917	Message	**ComputingTime Iso (Axis %1)**
	Description	The computing time of the 10kHz task was too long.
	Solution	Change the Tama code Task.IsochronousMain to reduce the computing time.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6918	Message	**ComputingTime TamaAsy entry (Axis %1)**
	Description	The computing time of the Tama program asynchronous task was too long.
	Solution	Change the Tama code Task.AsynchronousMain to reduce the computing time.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6920	Message	**DC-Bus Hardware-Limit (Axis %1)**
	Description	The DC-Bus voltage reached the absolute maximum limit.
	Solution	Check the power supply and the condition of the brake resistor.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-

6921	Message	**DC-Bus Upper-limit (Axis %1)**
	Description	The DC-Bus voltage exceeded the setting in General.Parameters.DcBusVoltageUpperLimit.
	Solution	Check the setting considering the power supply specifications and the brake resistor capability.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6922	Message	**DC-Bus Lower-Limit (Axis %1)**
	Description	The DC-Bus voltage dropped below General.Parameters.DcBusVoltageLowerLimit.
	Solution	Check the setting considering the power supply specifications. Check the main supply for power failure events.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6923	Message	**DC-Bus OverCurrent Limit (Axis %1)**
	Description	The DC-Bus current exceeded limits.
	Solution	Check for shorts in the motor cable.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6930	Message	**TemperatureLimit Tc R81= (Axis %1)**
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6931	Message	**TemperatureLimit Bridge R81= (Axis %1)**
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6932	Message	**TemperatureLimit SafeA R81= (Axis %1)**
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6933	Message	**TemperatureLimit SafeB R81= (Axis %1)**
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6934	Message	**TemperatureLimit Motor R81= (Axis %1)**
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-

6935	Message	**TemperatureLimit OptionA R81= (Axis %1)**
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6936	Message	**TemperatureLimit OptionB R81= (Axis %1)**
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6937	Message	**TemperatureLimit TempA53 (Axis %1)**
	Description	Internal temperature limit of the CPU reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6938	Message	**TemperatureLimit BridgeB R81= (Axis %1)**
	Description	Internal temperature limit reached.
	Solution	Check if the fan is working properly and ensure the cooling openings are free. Control your overall cabinet temperature.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6940	Message	**Internal Voltage OutOfRange Tc R81= (Axis %1)**
	Description	Internal voltage failure.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6941	Message	**Internal Voltage OutOfRange Bridge R81= (Axis %1)**
	Description	Internal voltage failure.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6942	Message	**Internal Voltage OutOfRange SafeA R81= (Axis %1)**
	Description	Internal voltage failure.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6943	Message	**Internal Voltage OutOfRange SafeB R81= (Axis %1)**
	Description	Internal voltage failure.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6944	Message	**Internal Voltage OutOfRange MotorTemp R81= (Axis %1)**
	Description	Internal voltage failure.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-

6945	Message	**Internal Voltage OutOfRange OptionA R81= (Axis %1)**
	Description	Internal voltage failure.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6946	Message	**Internal Voltage OutOfRange OptionB R81= (Axis %1)**
	Description	Internal voltage failure.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6947	Message	**Internal Voltage OutOfRange PowerBridgeSupply (PBS) R88= (Axis %1)**
	Description	Internal voltage failure.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6948	Message	**Internal Voltage OutOfRange UVLO DcDc Drv Fpga= (Axis %1)**
	Description	Internal voltage failure.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6949	Message	**Internal Voltage OutOfRange BridgeB R81= (Axis %1)**
	Description	Internal voltage failure.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6950	Message	**ExternalError (Axis %1)**
	Description	General.Commands.ExternalError is set to True to simulate an error.
	Solution	Set the register value back to False.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6951	Message	**InvalidPersistentParameters (Axis %1)**
	Description	Invalid checksum in persistent data.
	Solution	Reload the configuration file (*.TAMcfg) and retry to save the parameters persistently.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6952	Message	**Persistency erase failed (Axis %1)**
	Description	Failed erasing persistent data due to an internal error.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6953	Message	**Persistency write failed (Axis %1)**
	Description	Failed to save data persistently due to an internal error.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-

6960	Message	**Gantry version (Axis %1)**
	Description	The firmware does not support the setting in General.Parameters.Controller-Topology.
	Solution	Check if the firmware supports the mode and if any chosen Gantry mode requires a license.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6961	Message	**Gantry axis units not equal (Axis %1)**
	Description	Unequal Axes[].Parameters.PositionController.PositionUnit setting for Axes[0] and Axes[1].
	Solution	In Gantry setups both Axes must use the same units. Make sure the parameters are equal.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6962	Message	**Gantry motor types not equal (Axis %1)**
	Description	Unequal Axes[].Parameters.Motor.Type setting for Axes[0] and Axes[1].
	Solution	In Gantry setups both Axes must use the same motor. Make sure the parameters are equal.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6963	Message	**Gantry commutation phasingMethod not equal (Axis %1)**
	Description	Unequal Axes[].Parameters.Commutation.PhasingMethod setting for Axes[0] and Axes[1].
	Solution	In Gantry setups both Axes must use the same phasing method. Make sure the parameters are equal.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
6970	Message	**Tama code not valid VMID (Axis %1)**
	Description	The Tama assembly does not match to the Virtual Machine ID (Vmid) of the device.
	Solution	Ensure using the correct Vmid and recompile the Tama program code. Find the Vmid of the target drive in the Device node information.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6971	Message	**Tama code incompatible to this drive (Axis %1)**
	Description	The Tama assembly does not match to the Register Layout ID (Rlid) of the device.
	Solution	Ensure using the correct Rlid and recompile the Tama program code. Find the Rlid of the target drive in the Device node information.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6972	Message	**Tama code wrong checksum (Axis %1)**
	Description	The Tama assembly is not valid.
	Solution	Recompile the Tama program code.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

6973	Message	**Tama code unknown register (Axis %1)**
	Description	Illegal register access by the Tama program - triggered by accessing an unknown address or writing to a read-only register.
	Solution	Ensure that all registers (URIs) used in the Tama program are compatible with the firmware version used. Find the point of failure with the row number (row%x) and the register address (reg0x%x) in the assembly file (.asm). Consult the SWTAMA_CompilerUserGuide document for more information.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
6975	Message	**Tama code out of memory (Axis %1)**
	Description	The Tama code heap run out of memory.
	Solution	Reduce the amount of heap allocations with new.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6976	Message	**Tama division by zero (Axis %1)**
	Description	The Tama code aborted due to a division by zero.
	Solution	Prevent division by zero in the program code.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6977	Message	**Tama null reference (Axis %1)**
	Description	Tama null reference exception.
	Solution	Ensure that objects are correctly instantiated in the program code. Consider null checks when referencing objects.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6978	Message	**Tama index out of range (Axis %1)**
	Description	Tama array index out of bounds.
	Solution	Limit the array index to the array size.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6979	Message	**Tama corrupted state (Axis %1)**
	Description	Tama execution reached a corrupted state.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6990	Message	**Monitor is not running Tc (Axis %1)**
	Description	Internal communication error.
	Solution	Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6991	Message	**Monitor is not running Bridge (Axis %1)**
	Description	Internal communication error.
	Solution	Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-

6992	Message	**Monitor is not running SafeA (Axis %1)**
	Description	Internal communication error.
	Solution	Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6993	Message	**Monitor is not running SafeB (Axis %1)**
	Description	Internal communication error.
	Solution	Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6994	Message	**Monitor is not running Motor (Axis %1)**
	Description	Internal communication error.
	Solution	Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6995	Message	**Monitor is not running OptionA (Axis %1)**
	Description	Internal communication error.
	Solution	Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6996	Message	**Monitor is not running OptionB (Axis %1)**
	Description	Internal communication error.
	Solution	Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6997	Message	**Monitor is not running Communication State= (Axis %1)**
	Description	Internal communication error.
	Solution	Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6998	Message	**Monitor state machine (Axis %1)**
	Description	Internal communication error.
	Solution	Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
6999	Message	**Monitor is not running BridgeB (Axis %1)**
	Description	Internal communication error.
	Solution	Ignore and acknowledge if triggered during a firmware upgrade. Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.13.13-

7000	Message	**ThreeLevel MiddleVoltage (Axis %1)**
	Description	Internal voltage is out of hardware limit.
	Solution	Contact Triamec-Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7001	Message	**Power supply or brake resistor error (Axis %1)**
	Description	Internal power supply or brake resistor error.
	Solution	Check wiring and connector of the AC-Line input. Check wiring and connector of the brake resistor. Check the main supply for power failure events.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7002	Message	**Reboot not allowed if enabled (Axis %1)**
	Description	Rejected a reboot command because an axis is enabled.
	Solution	Ensure all axes are disabled before commanding a reboot.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7003	Message	**Localbus timeout (Axis %1)**
	Description	Internal communication error.
	Solution	Contact Triamec Motion AG if the error persists.
	Details	Class:Alarm; ErrorReaction:ErrorStopDisable; Firmware:FW4.12.14-
7004	Message	**Signal Processor unknown address (Axis %1)**
	Description	The register General.Commands.SignalProcessors[].Uri contains an unknown URI Address.
	Solution	Check the value to be a valid URI address.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7005	Message	**Signal Processor unknown mode or too many high speed acquisitions (Axis %1)**
	Description	The value in register General.Commands.SignalProcessors[].Mode is unknown or there are too many high speed acquisitions.
	Solution	Reduce the number of other acquisitions running, such as a 50kHz/100kHz scope or check if the firmware supports the selected mode.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7007	Message	**Localbus (Axis %1)**
	Description	The value pair in registers General.Parameters.Localbus.Device and Address is invalid.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7008	Message	**Internal Hardware Coding faulty or unknown. (Monitor) (Axis %1)**
	Description	The coding of the Monitor Hardware Type or Hardware Identification is incorrect or unknown.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.19.0-

7010	Message	**STO-Active from enabled state(Axis %1)**
	Description	STO activation detected in enabled state.
	Solution	Disable all axes before activating STO.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7011	Message	**STO-Inconsistent (Axis %1)**
	Description	The logic levels of the STO channels are not equal.
	Solution	Ensure equal logic levels for both STO inputs for normal operation. Check the STO circuit if this reoccurs.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7013	Message	**STO-StartupTestFail (Axis %1)**
	Description	The safety module test running during startup failed.
	Solution	Contact Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7014	Message	**STO-SafeMode (Axis %1)**
	Description	The safety module entered safe mode.
	Solution	Consult the safety documentation.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7015	Message	**STO-TemperatureLimit (Axis %1)**
	Description	The safety module detected a temperature error.
	Solution	Reduce the environment temperature.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7016	Message	**No functional safety option (Axis %1)**
	Description	The safety module is in functional safety state, but the FS option is disabled.
	Solution	Request the FS option from Triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:ErrorDisable; Firmware:FW4.12.14-
7110	Message	**Tria-Link-Publisher illegal URI (Axis %1)**
	Description	Illegal URI Address in this Publisher.
	Solution	Ensure that the address stated in the error message is a valid register.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7111	Message	**Tria-Link-Publisher Channel too large or already in use (Axis %1)**
	Description	The Tria-Link-Channel is already in use or illegal.
	Solution	One Tria-Link-Channel must be used by only one Publisher. Check for multiple assignments.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7112	Message	**Tria-Link-Subscriber illegal URI (Axis %1)**
	Description	Illegal URI Address in this Subscriber.
	Solution	Ensure that the address stated in the error message is a valid register.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

7113	Message	**Tria-Link-Subscriber Channel too large or already in use (Axis %1)**
	Description	The Tria-Link Channel is already subscribed or illegal.
	Solution	Ensure that one Channel is subscribed only once per drive. Check for multiple assignments.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7114	Message	**Tria-Link-Subscriber timeout (Axis %1)**
	Description	The data feed for the Subscriber discontinued.
	Solution	Ensure that the corresponding Publisher is running.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
7115	Message	**Tria-Link-Subscriber multiple source (Axis %1)**
	Description	The Subscriber receives data from multiple Publishers on the same Channel.
	Solution	Use the two source addresses stated in the error message to find Publishers that use the same Channel. One Tria-Link-Channel must be used by only one Publisher.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8961	Message	**BootError factory firmware: Install a new firmware (Axis %1)**
	Description	Drive fell back into factory firmware, most probably due to a failed firmware update.
	Solution	Install a new firmware using the update firmware procedure.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8962	Message	**BootError hardware test failed (Axis %1)**
	Description	A critical hardware error occurred.
	Solution	Contact triamec Motion AG.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8963	Message	**BootError unknown product ID (Axis %1)**
	Description	The firmware does not support the product.
	Solution	Install an up to date firmware.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8964	Message	**BootError unknown product revision (Axis %1)**
	Description	The firmware does not support this hardware revision.
	Solution	Install an up to date firmware.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8965	Message	**BootError option module missing (Axis %1)**
	Description	The product requires an option module which is not found.
	Solution	Contact Triamec-Motion AG.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-
8966	Message	**BootError firmware is incompatible with the fieldbus of the product (Axis %1)**
	Description	The firmware does not support the fieldbus.
	Solution	Install an up to date firmware.
	Details	Class:Alarm; ErrorReaction:None; Firmware:FW4.12.14-

2 ErrorReactions

If an error has an impact on the axis, the message description contains a tag that identifies the errorReaction taking place. These reactions are described in the following:

2.1 ErrorStop

If the axis is in motion, it will first enter the state "ErrorStopping" and stop using the emergency stop ramp. The axis will stay enabled (Standstill) if it was enabled before the error. The user must reset the error before the axis can receive new motion commands.

2.2 ErrorStopDisable

If the axis is in motion, it will first enter the state "ErrorStopping" and stop using the emergency stop ramp. Then it will activate the brakes if available (Axes[].Parameters.Motor.BrakeReleaseAction) and enter the state "Disabling". Then, it will wait until the time Axes[].Parameters.Motor.BrakeHoldTime is passed. Finally the axis will be disabled. The user must reset the error before the axis can be enabled again.

2.3 ErrorDisable

The brakes are activated if available (Axes[].Parameters.Motor.BrakeReleaseAction) but the BrakeHoldTime is not considered. The axis will therefore immediately disable. The user must reset the error before the axis can be enabled again.

Revision History

Version	Date	Editor	Comment
002	2022-03-22	chm	Initial fork from AN103
003	2022-06-08	sm	First release with FW 4.15
004	2022-08-16	sm	Update to FW release 4.16
005	2023-02-17	sm	Update to FW release 4.18
006	2023-10-23	mvx	Update to FW release 4.19
007	2024-0403	mvx, ab	Update to FW release 4.22

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