Release Information LinMot-Talk 6.10

Build 20220620

LinMot-Talk 6	Program Version 6.10 Build 20220620
E1200 (SG5):	Firmware Version 6.10 Build 20220620
A1100/C1100/I1150 (SG7):	Firmware Version 6.10 Build 20220620
C1250/C1251/C1400/E1400 (SG6):	Firmware Version 6.10 Build 20220620

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps, ProcessMonitoring
C1251-2S:
  Interfaces: PDS, PNS
  Applications: EasySteps, ProcessMonitoring
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps, ProcessMonitoring

Features:

Fixed Bugs:
- LinRS SG7: If a packet was not received completely (abort after start byte 0x02), the communication may struggle. Fixed. (D_F_B1147)
- LinMot-Talk: Login may not work when command table is running. In rare cases the drive is blocked and the motor currents are freezed. Fixed. (D_L_B987)
- MC-SW SG7: Curve scaling for small amplitude factors was wrong. Fixed. (D_F_B1149)
- EC/DS SG6: SDO timeout can happen, when EOE is logged in and the changed UPID list is read out. Fixed. (D_F_B1151)

Build 20220404

LinMot-Talk 6	Program Version 6.10 Build 20220404
E1200 (SG5):	Firmware Version 6.10 Build 20220404
A1100/C1100/I1150 (SG7):	Firmware Version 6.10 Build 20220404
C1250/C1251/C1400/E1400 (SG6):	Firmware Version 6.10 Build 20220404

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps, ProcessMonitoring
C1251-2S:
  Interfaces: PDS, PNS
  Applications: EasySteps, ProcessMonitoring
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps, ProcessMonitoring

Features:

Fixed Bugs:
- Intf SC: Acceptance of a new setpoint position in "Drive controlled positioning" mode may fail under certain circumstances. Fixed. (D_F_B1141).
- MC-SW: On some motors the motor communication does not work properly. The maximal temperature is not read. Fixed. (D_F_B1142).
- Intf DS402: Under certain circumstances, the motor may jump in position when the power is switched on. Fixed. (D_F_B1143).
- MC-SW: Command Table Motion Command "If Cmd Table Var 1 Less Than UPID Value (256xh)" and "If Cmd Table Var 2 Less Than UPID Value (257xh)" did not always work correctly, if UPID UINT16 was selected. Fixed. (D_F_B1144).

Build 20220307

LinMot-Talk 6	Program Version 6.10 Build 20220307
E1200 (SG5):	Firmware Version 6.10 Build 20220307
A1100/C1100/I1150 (SG7):	Firmware Version 6.10 Build 20220307
C1250/C1251/C1400/E1400 (SG6):	Firmware Version 6.10 Build 20220307

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps, ProcessMonitoring
C1251-2S:
  Interfaces: PDS, PNS
  Applications: EasySteps, ProcessMonitoring
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps, ProcessMonitoring

Features:

Fixed Bugs:
- OS SG5&6: OS SG5 & 6: The clear instance command (0x89 0x06 0x0y), used during installation, may cause the error 0xBA (Illegal bus access). Fixed. (D_F_B1134).
- OS SG7: Oscilloscope: some rare variable having an odd address caused a trap. Fixed. (D_F_B1135).
- MC-SW SG6: The status of the tara command was not known. Bit 9 (special motion active) in status word is used for it. (D_F_B1136).
- MC-SW SG6: E1400: STO IGBT alarm is suppressed for 2.5 ms. A fatal error can be avoided. (D_F_B1137).
- MC-SW SG6: C1250 X1 overcurrent was not evaluated. Fixed. (D_F_B1138).
- OS SG6: E1400: When the link of RT and config ETHERNET is interrupted or connected during run time, the connection may be stopped, such as no login can be performed. Fixed. (D_F_B1139).
- APPL Process Monitoring: When displaying the variables, the configured exits are not displayed for the variables "Window x Configuration". Fixed. (D_F_B1140).

Build 20211210

LinMot-Talk 6	Program Version 6.10 Build 20211210
E1200 (SG5):	Firmware Version 6.10 Build 20211210
A1100/C1100/I1150 (SG7):	Firmware Version 6.10 Build 20211210
C1250/C1251/C1400/E1400 (SG6):	Firmware Version 6.10 Build 20211210

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps, ProcessMonitoring
C1251-2S:
  Interfaces: PDS, PNS
  Applications: EasySteps, ProcessMonitoring
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps, ProcessMonitoring

Features:

Fixed Bugs:
- Intf CC-Link IEFB: When interface was configured as disabled, the FW has trapped on next reboot. Fixed. (D_F_B1129).
- Appl ProcessMonitoring: Measurements can only be armed by a rising edge of an IO or the measurement controlword. Errors of a pre-existing measurement are cleared when starting a new one. Fixed. (D_F_B1130).
- Appl ProcessMonitoring: Measurement initialization can lead to timer watchdog under certain conditions with certain interfaces (e.g. CC-Link). Fixed. (D_F_B1131).
- LinMot-Talk Updating of Older Releases via local package did not work. Fixed. (D_L_B974).
- LinMot-Talk Motor Wizard: EM01-37Sx60-HP-R-1495 was not displayed correctly. Fixed (D_L_F1048).
- Intf EC/DS SG6: With certain PDO configurations, firmware can trap on stop/start via EC/DS intferface SW. Fixed. (D_F_B1126).
- MC-SW SG6/7: BiSS-C: MSA213C is now correctly supported. (D_F_B1122).

Build 20211122

LinMot-Talk 6	Program Version 6.10 Build 20211122
E1200 (SG5):	Firmware Version 6.10 Build 20211122
A1100/C1100/I1150 (SG7):	Firmware Version 6.10 Build 20211122
C1250/C1251/C1400/E1400 (SG6):	Firmware Version 6.10 Build 20211122

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps, ProcessMonitoring
C1251-2S:
  Interfaces: PDS, PNS
  Applications: EasySteps, ProcessMonitoring
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps, ProcessMonitoring

Features:

Fixed Bugs:
- Safety FW: Temperature diagnosis did not work. Fixed. (D_F_B1127)
- Intf SW EC/DS SG6 resolve problem/trap with stop/start FW over RT-Config module. (D_F_B1128).

Build 20210930

LinMot-Talk 6	Program Version 6.10 Build 20210930
E1200 (SG5):	Firmware Version 6.10 Build 20210930
A1100/C1100/I1150 (SG7):	Firmware Version 6.10 Build 20210930
C1250/C1251/C1400/E1400 (SG6):	Firmware Version 6.10 Build 20210930

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps, ProcessMonitoring
C1251-2S:
  Interfaces: PDS, PNS
  Applications: EasySteps, ProcessMonitoring
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps, ProcessMonitoring

Features:
- MC-SW SG7: Heating function added for motors. For cold room applications, this function can reduce the temperature swing and gradient, thus increasing the life of the stator. (D_F_F1066)
- OS PnP: Compatibility for motor exchange made more tolerant. Up to now, the article number must have be the same. New the electrical type must be the same. E.g. if only the connector has changed, the motor will be still exchangeable. (D_F_F1024).
- EC-Interface SG6/7: Monitoring and parameter channels added, similar to the DS drives. (D_F_F1067).
- MC-SW SG6: Tara function added for standstill and in motion. MC commands 38Axh: VAI Go To Pos Tara Diff Analog In -10V..10V and 38Bxh: Standstill Tara Analog In -10V..10V.

Fixed Bugs:
- LinMot-Talk: If multiple windows are used in LinMot-Talk, it is possible that an exception occurs when clicking the save button. Fixed. (D_L_B968)
- LinRS SG5-7: Some curve commands did not respond the correct curve IC. Fixed. (D_F_B1120)
- LinMot-Talk: Exceptions could have occur on logout. Fixed. (D_L_B970)
- LinMot-Talk: If the parameters of a changed actuator are set to default and a motor with rotary units was set before, the data in the motor wizard will still be displayed in rotary units. Fixed. (D_L_B971).
- Intf PD SG6: Homing problems due to not actualized encoder position variable solved. (D_F_B1121).
- OS SG7: Default parameters did not properly work, when firmware was running and motor correction tables were active. Fixed. (D_F_B1123)

Build 20210521

LinMot-Talk 6	Program Version 6.10 Build 20210521
B1100 (SG4) / E1100 (SG3):	Firmware Version 3.25 Build 20210521
E1200 (SG5):	Firmware Version 6.10 Build 20210521
A1100/C1100/I1150 (SG7):	Firmware Version 6.10 Build 20210521
C1250/C1251/C1400/E1400 (SG6):	Firmware Version 6.10 Build 20210521

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps, ProcessMonitoring
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps, ProcessMonitoring

Features:
- RT Config module: the maximal size of a string can be read out. (D_F_F1036).
- Process Monitoring Application added. (D_F_F1029).
- PL DS402 interface added. (D_F936).
- MC SW SG6/SG7 New run mode closed loop force control, made for PD Intf FW to enable change to closed loop force Ctrl and back. (D_F_F1040)
- Intf SW EC CiA 402 SG6/SG7 New parameter added, which defines the behaviour in OP mode 10 (Torque Ctrl). Support of this parameter in PDO 0x1604 and 0x1614. (D_F_F1041)
- MC-SW SG7: New return PDO-Objekt 0x1A03, which contains the standards compliant return values for the CiA 402 PDOs, considering the OP mode 10 parameters. New objects 0x6071 and 0x6077 (Target Torque and Actual Torque) added. (D_F_F1042).
- IG C1250: Cable limit of 30m removed. Longer cables can be used, the motor specification must be regarded. Longer cables are not EMC critical. Functional restrictions will occur. (D_D216)
- Support of C1251-MI-XC-2S V2RB. (D_F_F1045)
- MC-SW: SG6: Heating function added. As long as the drive is enabled, the motor can kept warm. Parameters UPID 0x1258, 0x1259 and 0x125A are used to define the temperature, hysteresis and heating current. (D_F_F1043).
- LinMot-Talk, TF-Functions: Test license added for technology functions (TF). The TF can be enabled via LinMot-Talk for some hours for testing. Afterwards a fatal error will occur. Installing the correct TF key will permanently enable the TF function. (D_F_F1046)
- MC SW SG6 reluctance and friction correction table pos ctrl selection added and allow abort. (D_F_F1047).
- C1251-2S: PL, SC, CCLinkIEFB and EasySteps for safety drives drives added. (D_F_F1051)
- MC-SW SG6: Generic motor temperature model UL508C certified. Start temperature parameter added. (D_F_F1048).
- MC-SW SG6: Commutation on absolute encoder for 3 phase linear motors added. (D_F_F1034).
- MC-SW SG6&7: Permanent calculation of variable 0x1B61 "Motor Absolute Mechanical Angle in Revolution" added. (D_F_F993)
- Ethernet/IP SG5: Window size and MSS are made configurable, similar to SG6. This may solve problems to connect with a Mitsubishi PLC. (D_F_F1053)
- MC-SW SG7: Speed limiter for current mode added. (D_F_F1056)
- MC-Tree SG6&7: UPID 0x13E2 "Resolution (linear Encoder)" range expanded to 102.4 um. (D_F_F1055)
- EC-SW SG5-7: EC DS SW new SDO command default MC SW with immediate response added. (D_F_F1058)
- LinMot-Talk: If software is not installed, but only copied from zip file, the location AppData is not used for firmware and motor files. When generating a portable app, a path can be defined. (D_L_F1016)

- LinMot-Talk: Downloading the new motor ADP files is also supported for 32 bit systems. (D_L_F1018)
- LinMot-Talk: The update path, from which update packages can be loaded, is now configurable. Thus a trusted storage location can be defined. (D_L_F1028)
- LinUDP V2: SG6: Big data packets, which are not addressed to the drive, could have caused main timer struggles. Fixed. (D_F_B1114)
- OS SG6: MainTimer-struggle warning is made configurable as service in the parameter tree. Parameter UPID 0x0B10 "Main Timer Struggle". (D_F_F1059).
- LinMot-Talk: export of OS errors to HTML added. (D_L_F1033)
- LinMot-Talk: login over NAT router needs port configuration per drive. Feature added. (D_L_F1030).
- MC-SW SG6/7: Biss Encoder from Siko for magnetic stripes with zero mark added. (D_F_F1061).

Fixed Bugs:
- Ethernet IP: Streaming could have made some problems, when telegrams arrived in PVA streaming too late. Fixed. (D_F_F1033).
- MC SW SG7: Force constant calculation was not always correct for RS01 motors. Fixed. (D_F_B1087)
- MC-SW SG6: The switching of the power regeneration via motor was too hard and leaded to instability. Made weaker. (D_F_B1096)
- MC SW SG7: knocking at start of sinoides Bestehorn improved. (D_F_B1101)
- LinMot-Talk: Motor wizard. There was a problem with the distances A and B settings for the P10-54x motors. Fixed. (D_L_B956)
- MC-SW SG6&7: Master homing for rotary motors could have caused a following error. Fixed. mtoro position is reset, when homeposition is set. (D_F_B1088)
- Intf SW EC/DS tree default value for streaming mode to P changed. (D_F_B1094)
- LinMot-Talk, OSCI, SG7: When an addressable user variable is used as trigger condition in the oscilloscope, the system may trap. Address definitions fixed. (D_F_B1117).
- Appl Process Monitoring: Determination of the index of the reversal point for X-minimum and Y-maximum was faulty. Segment evaluation did not work with X-minimum and Y-maximum as reversal point. Fixed. (D_F_B1118)
- Interface / OS SG7: When logged in, the connection breaks after writing CT and restarting the MC-SW via ConfigModule, interface continues to run. Fixed (D_F_B1113)
- LinMot-Talk Motor Wizard: In the motor wizard with an ABZ motor and rotary units, the editbox «Ticks» for an encoder increment did not work correctly. Fixed. (D_L_B963).
- LinMot-Talk / OS SG6: If logged in with LinMot-Talk, it can happen in rare cases that the RS232 communication gets out of order. The drive can no longer synchronize because a data byte is always recognized as a sync byte. Fixed. (D_F_F1062 and D_L_F1034).
- LinUDPV2 SG6: LinUDP can fall into a TimerWatchdogError if too many packets are sent to the drive. Fixed. (D_F_F1063).
- ETHERNET IP SG5: always times out during communication As_0x27_0x18. Fixed. (D_F_B1119).
- LinMot-Talk Motor Wizard: stored slider home position incorrectly when reversing positive count direction. Fixed (D_L_B964).

Release Information LinMot-Talk 6.9

Build 20210430

LinMot-Talk 6   Program Version 6.9 Build 20210430
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.25 Build 20210430
E1200 (SG5):   Firmware Version 6.9 Build 20210430
A1100/C1100/I1150 (SG7):   Firmware Version 6.9 Build 20210430
C1250/C1400/E1400 (SG6):   Firmware Version 6.9 Build 20210430
(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Features:

Fixed Bugs:
- LinMot-Talk: Motor wizard has opened sometimes the wrong ADF files (e.g. PS01-23x80-HP instead of PS01-23x80). Fixed. (D_L_B960).
- CANOpen SG7: Object 1009 (serial number string) was read from wrong address (2 bytes shifted). Fixed. (D_F_B1111).
- MC SW SG7: Knocking at start of sinoide Bestehorn improved. (D_F_B1101)
- MC SW SG6: EnDat communication was sometimes interrupted and stopped on startup. Fixed. (D_F_B1112).
- MC SW SG7: BiSS-C encoder: some combinations can lead to wrong data shifting, which results in a wrong CRC. Fixed. (D_F_B1115).
- PN-SG5-7: Communication problems could have occur because of net mask problems. New firmware on interface ASIC handles these situations correctly. (D_F_B1116)
- MC SW MC Data for E1400: missing command PD Tlg 5 for PN. Added. (D_L_B962)

Build 20210203
LinMot-Talk 6   Program Version 6.9 Build 20210203
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.25 Build 20210203
E1200 (SG5):   Firmware Version 6.9 Build 20210203
A1100/C1100/I1150 (SG7):   Firmware Version 6.9 Build 20210203
C1250/C1400/E1400 (SG6):   Firmware Version 6.9 Build 20210203
(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Features:

Fixed Bugs:
- LinMot-Talk: Set access code did not work for C1400-1S. Fixed. (D_L_B953)
- OS SG7: BiSS communication was faulty when logged in to a SG7 drive. Fixed. (D_F_B1097)
- Installation: The installation of LinUDP on E1250-IP drive did not work. Fixed. (D_F_B1098)
- MC-SW SG6: Noise problem with motor regeneration solved. (D_F_B1095)
- OS SG7: Communication was lost when logged in a motor with correction table and then the parameters were defaulted. Fixed. (D_F_B1099).
- OS SG7: Support of C1150-EC-XC A08 with DIP switches. (D_F_B1100)
- OS SG7: Writing to error log was faulty. Fixed. (D_F_B1102).
- Intf EPL SG5/6: The objects 0x1C0C / 0x1C0D / 0x1C0E to detect errors at SOC/SOA/Preq telegram failures are not supported. If these are configured by the PLC anyway, the drive can no longer be started up on the fieldbus. Fixed (D_F_B1104).
- LinUPD V2: On a Count Nibble change there was no answer. Fixed. (D_F_B1105)
- EC-SW SG7: Data width problem with Pilz controller fixed. (D_F_B1106)
- Config Module (used in all interfaces): drive may trap, if config communication is requested while the MC SW is restarting. Fixed. (D_F_B1108).
- Config Module: The commands "Get next UPID List item (0x21)" and "Get next Modified UPID List item (0x23)" do not return a correct status "Get UPID List not initiated (0xC5)" if the commands are sent again after the list ends and the count nibble is not updated correctly on subsequent commands. Fixed. (D_F_B1109)
- PN interface: The signal runtime detection (cable lengths) sometimes caused problems. Fixed. (D_F_B1103).
- MC-SW SG: If BiSS is configured but no encoder is connected, the drive did not start up correctly (stuck in a loop). Fixed. (D_F_B1110)

Build 20201026

LinMot-Talk 6	Program Version 6.9 Build 20201026
B1100 (SG4) / E1100 (SG3):	Firmware Version 3.25 Build 20201026
E1200 (SG5):	Firmware Version 6.9 Build 20201026
A1100/C1100/I1150 (SG7):	Firmware Version 6.9 Build 20201026
C1250/C1400/E1400 (SG6):	Firmware Version 6.9 Build 20201026

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Features:

Fixed Bugs:
- MC-SW SG7: Force constant calculation was not always correct for RS01 motors. Fixed. (D_F_B1087)
- EC SG6: CiA402 modification for PILZ problem writing opmode with more data !=0. Fixed (D_F_B1089)
- EC CiA402: PILZ PLC can send opmode with more data different from zero. This has caused an error. Made more tolerant. (D_L_B945)
- LinMot-Talk: When opening motor files with the size of 8, the question comes up, if the parameter should be defaulted. Fixed. (D_L_B946).
- LinMot-Talk: a safe copy function for the application data is implemented. (D_L_B942)
- MC-SW SG6: CRC monitoring for EnDat was not possible to turn off. Made similar to BiSS-C, uses the parameter UPID 13BDh. Added. (D_F_B1090)
- SERCOS SG5/6: The configuration of additional cyclic process data (P-0-0301 - P-0-0304 und P-0-0311 – P-0-0314) was not possible for some PLCs. P4 was not reached. Fixed. (D_F_B1092).
- LinMot-Talk: X3.6 was not displayed in the Control Panel. Fixed. (D_L_B948).
- LinMot-Talk: When the positive count direction was changed, the C, D, Max and Min position were calculated wrong for Faulhaber motors. Fixed. (D_L_B950).

Build 20200727

LinMot-Talk 6   Program Version 6.9 Build 20200727
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.25 Build 20200727
E1200 (SG5):   Firmware Version 6.9 Build 20200727
A1100/C1100/I1150 (SG7):   Firmware Version 6.9 Build 20200727
C1250/C1400/E1400 (SG6):   Firmware Version 6.9 Build 20200727
(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Features:

Fixed Bugs:
- OS SG6: UTC Timeoffset was not initialized to 0 -> When a Unix time was set, there was an offset of 0xFFFF seconds in the time shown in the message and errorlogs. Fixed. (D_F_B1076).
- LinMot-Talk: Curve display for drives without rotary units has led to division by zero error. Fixed. (D_L_B938).
- MC-SW SG6: EnDat encoder has overwritten the warn/error temperature of the motor with it's own warn/error temperature. Fixed. (D_F_B1085).
- LinMot-Talk: the curve for a C1100 drive was displayed with the 0.0 factor scaling in y-direction. Fixed. (D_L_B941).
- EC Intf: C1250-DS (0S & 1S) report the wrong revision (1.8 instead of 1.9) on the bus. Thus, the PLCs do not work when the revision check is activated. Fixed. (D_F_B1084).
- Easy Steps SG6: Misalignment of the motion parameters with the GoToAnalogPosition command. Fixed. (D_F_B1086).
- C1450-PL not completely supported (XDD File missing, interface support). Fixed. (D_F_F1038)
- LinMot-Talk: The calculation of the distances C and D in case of linear-rotary motors was wrong. Fixed. (D_L_B944).
- SE SG5: it was not possible to switch on an axis. The control word was not correctly acting. Fixed. (D_F_B1086).

Build 20200528

LinMot-Talk 6	Program Version 6.9 Build 20200528
B1100 (SG4) / E1100 (SG3):	Firmware Version 3.25 Build 20200528
E1200 (SG5):	Firmware Version 6.9 Build 20200528
A1100/C1100/I1150 (SG7):	Firmware Version 6.9 Build 20200528
C1250/C1400/E1400 (SG6):	Firmware Version 6.9 Build 20200528

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Features:
- MC-SW SG5: Range for winding parameters extended. (D_F_F1035).

Fixed Bugs:
- OS SG6: UTC Timeoffset was not initialized to 0 -> When a Unix time was set, there was an offset of 0xFFFF seconds in the time shown in the message and errorlogs. Fixed. (D_F_B1076).
- LinMot-Talk: When LinMot-Talk cannot open an offline configuration and again a configuration is opened, the error "not in wait state" occurs. Fixed. (D_L_B930).
- Powerlink SG6: When a drive communication is via SPS NAT over RT-config and other drives are on the bus, all drives respond to the RT-config telegramms instead of only the addressed one. Downloading a configuration would be applied to all drives on the bus. Fixed. (D_F_B1077)
- LinMot-Talk: Motor wizard: Pictures for DM01 fixed. (D_L_B932).
- LinMot-Talk: On drives, which belong to a module, double click on the drive name in the drive information did not work. Fixed. (D_L_B934)
- MC-SW SG5/6: Enocder simulation did not work for negative direction. Fixed. (D_F_B1079).
- MC-SW SG6: C00-Drives: The calibration constant for AnInDiff offset was wrongly scaled. Fixed. (D_F_B1080).
- LinUDP V2 SG6: When the MC-SW was stopped, also the RT communication stopped. Fixed. (D_F_B1082)

Build 20200320
LinMot-Talk 6   Program Version 6.9 Build 20200320
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.25 Build 20200320
E1200 (SG5):   Firmware Version 6.9 Build 20200320
A1100/C1100/I1150 (SG7):   Firmware Version 6.9 Build 20200320
C1250/C1400/E1400 (SG6):   Firmware Version 6.9 Build 20200320
(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1150:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1250:
  Interfaces: CC, CM, DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps
C1450:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Features:
- Linmot-Talk: News are displayed, so the user is always kept up to date. (D_L_F1010).
- LinMot-Talk: Oscilloscope: Under statistic functions the peak to peak values can be displayed. (D_L_F1006).
- LinMot-Talk: Online help for applications added. (D_L_F1007).
- C1250: MC-SW: support of V1RH4 hardware. (D_F_B1043).
- Linmot-Talk: The motor files can now be updated from the server. New motor files can now be loaded independently from the LinMot-Talk version. (D_L_F975).
- Linmot-Talk: The old releases can be loaded from the server. Thus the LinMot-Talk installation is very compact and only the requested old releases can be installed. (D_L_F955).
- LinMot-Talk: Motor files for DM01-48xYYY-CS01 and DM01-48xYYY-CS11 added. (D_L_F1004).
- LinMot-Talk: adf files for PR02-52 mit SSC front added.
- C1250-xx-xx-C00: Calibrated drives supported. (D_F_B1045).
- LinMot-Talk: DM01 is supported. (D_L_F999).
- OS Trees SG5-7: The ordering information for bus compatible drives was not clearly declared. Explicit ordering information added (UPIDs $0086 and $007D). (D_L_F1000)
- ADF-Files: for Harmonic Drive FHA-8C-100-MZE, FHA-11C-100-MZE and FHA-14C-100-MZE added. (D_L_F1001).
- MC-SW SG6: In Ethernet IP, the actual velocity filtered is mapped, but in Current Cmd Mode it was not be calculated. Calculation added. (D_F_F1022).
- EC-SW DS: Monitoring and parameter channels for DS drives added. (D_F_F1002)
- MC-SW SG5-7: Force Control mode with Speed Limit added. (D_F_F991)
- CC-Link: SG6: CC-Link interface is supported. A dedicated HW is defined for the CC-Link interface: C1250-CC-XC-0S-000 and C1250-CC-XC-1S-000. (D_F_F998)
- LinMot-Talk: A gear can be defined in the Motor-Wizard. The supported motors are EC02 and PR0X (D_L_F978)
- Motors: P01-48x150G-HP motors added. (D_L_F993)
- LinMot-Talk / Interfaced: A Unix time stamp can be written to a parameter (UPID 0x0252), which defines the absolute time. So messages can be displayed with the correct time in LinMot-Talk. (D_F_F1017).
- LinUDP V1 is supported. (D_F_F1020).
- PD-SW SG6: Range indicators as reference mark search input of the source in ProfiDrive added. (D_F_F1023).
- MC-SW SG6/7: New motion command 0x389x Inc motion with lower Force added. (D_F_F1010).
- PD-SW: SG6: New parameter for Position Anti-Windup gain added. (D_F_F1003).
- MC-SW SG6: Modulo P Streaming added. (D_F_F1008).
- sercos SG6: Modulo P Streaming added. (D_F_F1009).
- LinMot-Talk: Firmware installation runs with higher baud rates for SG6/7. (D_F935)

- LinRS SG7: C1100-GP: Via switch S4.1 the interfaces (RS232/RS485) of LinMot-Talk config and LinRS can be switched. (S4.1 OFF: Config RS232, LinRS RS485; S4.1 ON: Config RS485, LinRS RS232). (D_F_F1014 & D_F_F1015).
- Ethernet IP: Mitsubishi PLC are now supported. The communication did not work properly. (D_F_F1016).
- OS & Tree SG7 PN: Additional test if interface has started correctly implemented. This prohibits from communication loss. (D_F_F1019)
- LinMot-Talk: Oscillosope: Math functions added. Each channel can be used as a mathematical function of other channels, such as chan1 minus chan2, or chan 3 multiplied with chan4, … (D_L_F980).
- LinMot-Talk: MotorWizard: Wizard adapted for P10-70…SSC motors. (D_L_F985).
- LinMot-Talk: Oscilloscope: Besides offset and distance, also minimum and maximum can be displayed. (D_L_F987).
- LinMot-Talk: MotorWizard: New pictures and adp files for PS01-37Sx120F-HP-SSC-R and PS01-37Sx60-HP-SSC-R added. (D_L_F988)
- LinMot-Talk: Adp files for mSR80.adp and mSR100.adp added. (D_L_F991)
- MC-SW SG6: Modulo P streaming added. (D_F_F1008).
- MC-SW: E1200/E1400: ME-CAM commands 0x060x and 0x061x disable and restart CAM motion added. (D_F_F994)
- MC-SW SG5-7: New Indexing Startin Mode "Restart from Actual Position" added. (D_F_F992).
- LinMot-Talk: Import Raw Data can now handle curves and command tables. (D_L_F966).
- LinMot-Talk: When the drive performs plug and play, LinMot-Talk displays the reset button blinking yellow-green. (D_L_F967).
- OS SG7: The waiting time, when the OS has started until the applications (MC-SW, …) will be started, can be configured by a parameter. (D_F_F998).
- Drive D1100 added. (D_F_F999).
- PowerLink SG6: Config over RT supported. (D_F_F1001).
- Motor B&R 8LSA56 added. (D_L_F979).
- LinMot-Talk: Reluctance and friction tables can be read out and displayed. (D_L_F981).
- C1150-EC/DS-XC-0S: HW Version V1RB3 with address selector S1/S2 supported. (D_F_F1049).

Fixed Bugs:
- LinMot-Talk: Installation on SG7 for older releases: The installation does not work with higher baud rates than 38400. Limit activated. (D_L_B924).
- MC-SW SG6/7 Parameters: The Phase Search Once Flag could not be reset, because there was no item defined in the parameter tree. Added. (D_F_B1071).
- LinMot-Talk: Motor files: the 48x… SSC motors had wrong FFT parameter values. Fixed. (D_L_B915).
- Ethernet-IP SG6: A wrong checksum was sent on a ping request with data length different from standard (32 bytes). Fixed. (D_F_B1068).
- LinUDP V2: Help texts for activation parameters were wrong. Fixed. (D_F_B1069).
- LinMot-Talk: Pictures for PSPS01-37Sx120F-HP-SSC-R were not correct. Fixed. (D_L_B916)
- OS SG6: Oscilloscope: If an invalid UPID is used for the command "TrigSetModeUPID" (Talk-ID: 0x85, Osc-Command: 0x81), the drive has trapped. Fixed. (D_F_B1046)
- LinMot-Talk: Oscilloscope: Fit view was always done over all channels, not only the active ones. Fixed. (D_L_F983).
- LinMot-Talk: Import Raw Data could not import string variables. Fixed. (D_L_B890).
- LinMot-Talk: A memory leak of about 800MB per day is fixed. (D_L_B894)
- LinUDP V2: A double answer could have happen, when the incoming packet was too big. Fixed. (D_F_F995).
- LinMot-Talk: Motor Wizard: sometimes the pictures are not updated. Fixed. (D_L_B896).
- Sercos SG6: Support of the objects S-0-0187 und S-0-0188 was not correct. Fixed. (D_F_F1000).
- MC-SW SG3&4: The hall offset values from the motor were not handled correctly. Fixed. (D_F_B1075).
- OS SG6: UTC Timeoffset was not initialized to 0 -> When a Unix time was set, there was an offset of 0xFFFF seconds in the time shown in the message and errorlogs. (D_F_B1076)

Release Information LinMot-Talk 6.8

Build 20200316

LinMot-Talk 6	Program Version 6.8 Build 20200316
B1100 (SG4) / E1100 (SG3):	Firmware Version 3.25 Build 20200316
E1200 (SG5):	Firmware Version 6.8 Build 20200316
A1100/C1100/I1100 (SG7):	Firmware Version 6.8 Build 20200316
C1200/C1400/E1400 (SG6):	Firmware Version 6.8 Build 20200316

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1100:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1200:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
  Applications: EasySteps
C1400:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Fixed Bugs:
- MC-Tree SG6: Analog In single-ended signal below 0 V (e.g. noise around 0V) was displayed wrongly with values around 160 V. fixed (D_F_B1070).
- MC-SW SG7: Sin/cos sensor did not work together with absolut sensors. Fixed. (D_F_B1072).
- MC-SW SG5-7: Startup position with position angle correction table was not correct. Fixed (D_F_B1074).

Build 20200120
LinMot-Talk 6   Program Version 6.8 Build 20200120
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.25 Build 20200120
E1200 (SG5):   Firmware Version 6.8 Build 20200120
A1100/C1100/I1100 (SG7):   Firmware Version 6.8 Build 20200120
C1200/C1400/E1400 (SG6):   Firmware Version 6.8 Build 20200120
(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1100:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1200:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
  Applications: EasySteps
C1400:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Fixed Bugs:
- sercos SG5/6: Current limited to maximal drive current, because a misconfiguration could lead to an error. Fixed. (D_F_B1063).
- LinMot-Talk: Oscilloscope: When exporting data from oscilloscope in continuous mode, data could be stored inconsystently. Fixed. (D_L_B913)
- LinMot-Talk: Login to SG6 drives with firmware smaller than 6.4 was not possible because of a trap. Fixed. (D_F_B1064).
- LinMot-Talk: Motor wizard: PS10 motor sliders: the picture was wrong. Fixed. (D_L_B919).
- OS-SW: PN SG7: Starting up the PN drives could be stucked, if interface flash CRC was wrong. The drive could not communicate anymore. Fix: firmware installation is still possible. (D_F_F1019).
- ADF Files V3S6 for EC02 motors added. (D_L_F1002).

Build 20191003

LinMot-Talk 6	Program Version 6.8 Build 20191003
B1100 (SG4) / E1100 (SG3):	Firmware Version 3.25 Build 20191003
E1200 (SG5):	Firmware Version 6.8 Build 20191003
A1100/C1100/I1100 (SG7):	Firmware Version 6.8 Build 20191003
C1200/C1400/E1400 (SG6):	Firmware Version 6.8 Build 20191003

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1100:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1200:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
  Applications: EasySteps
C1400:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Fixed Bugs:
- CANOpen SG5/6: Inconsistent PDO data could have been transmitted. Fixed. (D_F_B1059).
- Ethernet IP SG6: Rare startup problem with IP streaming. Fixed. (D_F_B1058).
- MC-SW: Signed/Unsigned compares checked and fixed. (D_F_B1060).
- MC-SW SG6: E1400 Force Ctrl with high forces limits measured force below int16 range. Fixed. (D_F_F1062).

Build 20190820

LinMot-Talk 6   Program Version 6.8 Build 20190820
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.25 Build 20190820
E1200 (SG5):   Firmware Version 6.8 Build 20190820
A1100/C1100/I1100 (SG7):   Firmware Version 6.8 Build 20190820
C1200/C1400/E1400 (SG6):   Firmware Version 6.8 Build 20190820
(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1100:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1200:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
  Applications: EasySteps
C1400:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Fixed Bugs:
- sercos SG5/6: When homing via PFC S-0-0148, it can happen seldomly, that a PVT buffer underflow occurs, because the stop streaming command (drive internally) is set too late. Fixed. (D_F_B1051).
- MC-SW SG6: MC SW SG6 missing calculation for variable "Curr Ctrl Period Time 1s" added. (D_F_B1050).
- ETHERNET IP SG6: UDP CRC check added. (D_F_B1052)
- MC-SW SG6/7: SSI/BiSS frequency of 400 kHz added. (D_F_F1011).
- OS-SG6, Osci: trigger for masked bits True/False was missing. Fixed. (D_F_B1053).
- MC-SW SG7: Kommuntation ABZ with init mode phase search generates now an error message. Same behaviour as SG6. MC-SW documentation updated. (D_F_B1055)
- OS SG7: Remanent variables are not stored, if the drive is new and was programmed directly with 6.7 or 6.8. Fixed. (D_F_B1056)

Build 20190701

LinMot-Talk 6	Program Version 6.8 Build 20190701
B1100 (SG4) / E1100 (SG3):	Firmware Version 3.25 Build 20190701
E1200 (SG5):	Firmware Version 6.8 Build 20190701
A1100/C1100/I1100 (SG7):	Firmware Version 6.8 Build 20190701
C1200/C1400/E1400 (SG6):	Firmware Version 6.8 Build 20190701

(SGx = System Generation)

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1100:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1200:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
  Applications: EasySteps
C1400:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Fixed Bugs:
- OS SG6: Firmware update from an older system could happen very rarely a boot loop. Fixed. (D_F_B1047)
- LinMot-Talk: If LinMot-Talk is loged in to a E1100 drive via CAN bus, an exception can happen, if parameters are modified after the drive has restartet. Fixed. (D_L_B906)
- EC-SW SG7: Force/torque limits +/- were mismatched. Fixed. (D_F_B1048).
- MC-SW SG 7: The statur word motion active bit with force ctrl did not run correctly. Fixed. (D_F_B1049).

Build 20190517

LinMot-Talk 6	Program Version 6.8 Build 20190517
B1100 (SG4) / E1100 (SG3):	Firmware Version 3.25 Build 20190517
E1200 (SG5):	Firmware Version 6.8 Build 20190517
A1100/C1100/I1100 (SG7):	Firmware Version 6.8 Build 20190517
C1200/C1400/E1400 (SG6):	Firmware Version 6.8 Build 20190517
(SGx = System Generation)	

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
I1100:
  Interfaces: DS, EC, SE
  Applications: Autostart, EasySteps
C1200:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
  Applications: EasySteps
C1400:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
  Applications: EasySteps

Fixed Bugs:
- MC-Tree SG7: I1150 DS: The default voltage for the UPIDs 101E and 101F (Turn on/off voltage for RR) was too low. Fixed. (D_F_B1035)
- OS SG7: Check for minimal OS and MC version in PnP did not work correctly. Fixed. (D_F_B1036)
- sercos SG5/6: The parameter S-0-0084 (Force/Torque Feedback) must be loaded with the appropriate MC-SW variable, dependant on selected motor type. With UPID 1195h the decision is done, if the MCSW variable MotActForce or MotActTorque is taken. Done. (D_F_B1037)
- adp files: Wittenstein adp-File had wrong adp file name. Fixed. (D_L_B900).
- C1250-CM: start/stop of the MC-SW does not work over config over RT. Fixed. (D_F_B1040)
- LinMot-Talk: Error code 524541444D4F544F52 occurs, when resizing of a non-existing window should be executed. Fixed. (D_L_B904).
- LinMot-Talk: Motor Wizard: The value of the noise deadband shows the default value when the wizard is run the first time. Fixed. (D_L_B903).
- LinMot-Talk: under Help → About → Show License the pdf-file cannot be found. Fixed. (D_L_B897).
- LinMot-Talk, adp-files: for linear rotary motors, the noise dead band was not always turned off for the rotary part. Fixed. (D_L_B902).
- Intf SW PN: When configuring 4 parameter channels, the last two are not valid in the PLC. Fixed. (D_F_B1038).
- LinUDP SG5/6: when transferring a motion command interface header without a changed count nibble, the motion command 0x0000 can be read back by the LinMot-Talk. Fixed. (D_F_B1042).
- LinMot-Talk: On C1100 the linear parts of the 0150-2703, 0150-2704 and 0150-2706 motors generate the error "wrong slider" because of a wrong slider ID. Fixed. (D_L_B904).

Build 20190315

LinMot-Talk 6   Program Version 6.8 Build 20190315
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.25 Build 20190315
E1200 (SG5):   Firmware Version 6.8 Build 20190315
A1100/C1100/I1100 (SG7):   Firmware Version 6.8 Build 20190315
C1200/C1400/E1400 (SG6):   Firmware Version 6.8 Build 20190315
(SGx = System Generation)

    E1200:
      Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
      Applications: EasySteps, MasterSlave
    E1400:
      Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
      Applications: EasySteps, MasterSlave
    B8050 / MB8050 ML (MC-Link)
      Interfaces: EC, IP, PN, PL, SC
      Applications: -
    A1100:
      Interfaces: CO
      Applications: Autostart, Sinoide
    C1100:
      Interfaces: CO, DS, EC, PN, RS, SE
      Applications: Autostart, EasySteps
    I1100:
      Interfaces: DS, EC, SE
      Applications: Autostart, EasySteps
    C1200:
      Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
      Applications: EasySteps
    C1400:
      Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE,
      Applications: EasySteps

Features:
- The Structure of third party motors is reorganized. (D_L_F965).
- LinMot-Talk: Motor Wizard: Configuration for negative direction for PR02 linear motors is supported. (D_L_F936).
- LinMot-Talk: Motor wizard and adf files: rotary units for TG_Drives Motoren and parameters for Leadshine motors adjusted. (D_L_F963).
- LinMot-Talk: ADF files for Rexroth MSK040C-0600-NN motors added. (D_L_F959)
- LinMot-Talk: ADF files for PR01-70x100-SSC-C motors added. (D_L_F960)
- LinMot-Talk: ADP files added for the following motors: Engel_HBR2660-DS1, Engel_HBR2660-DS1-KTY83, Rexroth MSL040C-0600-NN-AB, Wittenstein_EC_BiSS_V2 (with rotary units). (D_L_F962)
- LinMot-Talk: Motor Wizard: Selection for EnDat2.1 und EnDat2.2 for all linear motors added. (D_L_F938)
- LinMot-Talk: Motor Wizard: Selection for BiSS-B und BiSS-C for PS10-54x and PS10-70x motors added. (D_L_F939).
- LinMot-Talk: Motor Wizard, Documentation, MC-Trees: Unified nomenclature applied for Standard Stroke (SS) and Extended Stroke (ES) (not for C1400/E1400). (D_D209).
- LinMot-Talk: Oscilloscope: On a single click on an oscilloscope item, the edit window will be opened. On a double click the oscilloscope will be opened, as usual. (D_L_F956).
- LinMot-Talk: Compare parameters: A checkbox "only raw values" is added, so only the raw data is compared. (D_L_F957).
- LinMot-Talk: ADC File AM3023_Endat_V2.adc expanded for C1450. (D_L_F947)
- LinMot-Talk: The two drives of linear-rotary motors will be displayed closed together and marked. (D_L_F948)
- LinMot-Talk: Motor Wizard: An edit box is placed close to the combo box. The content of this edit box is regarded as filter for the selection. (D_L_F949)
- LinMot-Talk: Oscilloscope: The oscilloscope settings are checked for the range and a message will be generated if the range is exceeded. (D_L_B874)
- LinMot-Talk: Phase over current messages in E1400 will be distinguished in error codes 0x30 and 0x31. (D_L_B879).
- LinMot-Talk: The PVL list can be saved as .pvl or .csv file, and the data format can be chosen hex or dec. (D_L_F934)
- Drive Firmware: All drive firmware is CRC protected. This guarantees a safer FW installation. (D_F_F964).
- Remanent OS: A remanent OS layer is added, which makes the installation more stable. For the user, this is transparent. (D_F_F929)
- OS: SG6/7: Oscilloscope: An additional trigger conditions is added. The trigger can be set active if the difference or the absolute difference (only SG6) of the signals between samples are >= or <= than the trigger level (sort of gradient

trigger). (D_F903)
- OS: SG6: Additional trigger condition for trigger on bitmasks added. (D_F_F989).
- OS: SG6: Overrun (OV) interrupt activated in FM04 bus modul to avoid a telegram jam. (D_F_B983)
- OS: SG6: MotoLink P+ is supported. This allows a faster communication with the motor on startup. (D_F_F996).
- MC: SG 6/7: Phase search once with absolute sensors added. (D_F_F962)
- MC: SG6/7: Temp Sens Warn Level parameter (UPID 0x1040): default value set up to 75°C. (D_F_F978).
- MC: SG5-7: Force mode for DS402: the units have changed from mm/degree to percent. (D_F_F988)
- MC: SG5-7: Range indicator can also be done with boolean parameters or variables. (D_F_F982)
- MC: SG6: Force mode for DS402: the units have changed from mm/degree to percent. (D_F_F988)
- MC: SG5-7: New incremental motion commands 0xDCx and 0xDDx, with rise and fall trigger parameters as motion parameters added. (D_F_F980).
- MC: SG6&7: Limit switch behaviour without resetting the home flag added. New behaviour and parameter added. (D_F_F967).
 - MC: SG6/7: Closed loop Force Control over MC command. New motion command 0x398x Closed Loop Target Force SG6 added. (D_F_F965)
- MC: SG6: EnDat absolute Encoder with Profidrive is supported. (D_F_F948).
- MC: SG6: ProfiDriveD phase search first switch on added. (D_F_F962).
- MC SG6: New streaming command 0x03Bx modulo streaming for Ethernet IP added. (D_F_F949)
- CM: Time stamp in input assembly implemented. (D_F_F971).
- CM: CIP Sync Modulo Streaming is supported. (D_F_F955).
- CM: Docu: IP sync documentation: Command 0x3Ax added, (D_F_D211)
- EC/DS: PDO object 0x1711 with positive and negative torque/force limit added. New ESI Files 1.8.7. (D_F_F982)
- EC: Cia402 Closed loop Force Control is called over MC command with new Op Mode -118. (D_F_F966)
- EC, DC SG5-7: New variable UPID 213Dh added for showing the time between data receiving and Sync_0. (D_F_F947).
- PL: SG6: Enable overrun interrupt for PE2MAC to enable reconnection after
  longer operations (e.g. flashing of command table). (D_F_F959).
- PD: PD Reference Mark Search 1 added. (D_F_F960).
- PD: Reference mark search added. (D_F_F958)
- SC SG6: Parameter channel made similar to PROFINET (4x Parameter Channel, 4x Monitoring Channel). (D_F_F972).

Fixed Bugs:
- LinMot-Talk: did not start up when the internet connection exists but the server is not reachable. Fixed. (D_L_B883).
- LinMot-Talk: When defaulting the parameters and closing the motor wizard fast enough, it could have happen, that the parameters were not set to default. Fixed. (D_L_B891).
- LinMot-Talk: Small values will be displayed in the scientific format in the parameter view. A change in scientific format was not accepted. Now it is. (D_L_B892).
- LinMot-Talk: When closing a second window, LinMot-Talk crashed. Fixed. (D_L_B893)
- LinMot-Talk: adf-Files: PnP: After a rotary motor without communication was configured, a motor with PnP will be completely accepted. Changed the way, that the new motor would be regarded as a different type. Fixed. (D_L_B886).
- LinMot-Talk: Parameter update did not work reliably because of concurrent tasks. Fixed. (D_L_B888).
- LinMot-Talk: Oscilloscope: The Min/Max feature did display even channels which have been turned off. Fixed. (D_L_B881).
- LinMot-Talk: When ConfigView,ini is defective, LinMot-Talk doesn't start up. Fixed. (D_L_B869)
- LinMot-Talk: MotorWizard: When the coordinate system was changed to reversed, the homing mode pictures were wrong. Fixed. (D_L_B875).
- LinMot-Talk: Control Panel: If very small values are typed in (e.g. 0.00001m/s), it will be displayed with 1E-5. When clicking on this box again, an error is generated because the unit doesn't fit. Fixed (D_L_B876)
- LinMot-Talk: Motor Wizard: The finish check did not calculate all rotary units correctly. Fixed (D_L_B877)
- LinMot-Talk: When login to a SG7 drive with older FW, the device type, serial number and article number will not be displayed correctly. Fixed. (D_L_B864).
- LinMot-Talk: After the PC (especially laptop) wakes up from the sleep function, the COM port is not active anymore. Fixed. (D_L_B861).
- OS: SG7: OSCI: Trigger greater or equal did not work correctly in any case. Fixed. (D_F_B1019).
- OS: PnP: Third pary motors without communication did produce the error "Fatal Err: Bad Motor Comm". Fixed. (D_F_B1023).
- OS: SG6: When logged in via RT ETH and the PLC writes RAM parameters, the CT cannot be written in the flash started by the LinMot-Talk. Fixed. (D_F_B1007)
- OS: SG7: Serial Number String is read with -2 Bytes Offset from the start of it when adding the info to the login cmd. Fixed. (D_B_B971)
- OS SG5-7: When a non PNP motor (of the same type) is plugged after a PNP motor has setup, an error "wrong stator type" was generated. After a second reboot, the error disappeared. Fixed. (D_F_B981)
- OS SG6: A timer watchdog error directly restarted the system, without saving the trap information an the remanent

memory. Fixed. (D_F_B985).
- OS SG6/7: When installing new firmware, the error "Error saving remanent Memory" occurred. Fixed. (D_F_B986).
- OS SG7: When starting up without a connected motor, the error "Fatal Error: Bad Motor Comm" was generated. Fixed. (D_F_B987).
- MC-SW SG7: Homing with different set A or B did not work. Fixed. (D_F_B1014).
- MC-SW SG5-7: After homing the state 7 was entered for one cycle. Fixed, jumps directly to state 8. (D_F_B1020).
- MC-SW SG6: generates a wrong stator type when after a PnP motor a non PnP motor
  is connected. Fixed (D_F_B984)
- MC-SW C1400: Sin/Cos offset scale set to 100uV (was 1mV). (D_F_B985)
- IP on netX: The name has changed: netX IP SW is now IntfSWIPNX and netX IP Tree is new IntfTrIPNX. (D_F_B996)
- LinRS SG6: does not work since LT 6.7 Build 201801206. The reason is the automatic baud rate reset in the OS. Fixed. (D_F_B1018).
- sercos SG5/6: Torque/Force Feedback Value (S-0-0084) did not display negative values. Fixed. (D_F_B1021).
- Command "Wait until Current greather/lower than" does did work for negative values. Fixed. (D_F_B1034).

Build 20190311
Zip-File: 0187-0001_SW_6V7_LinMot-Talk_6.7_Build_20190311.zip

LinMot-Talk 6   Program Version 6.7 Build 20190311
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.25 Build 20190311
E1200 (SG5):   Firmware Version 6.7 Build 20190311
A1100/C1100/I1100 (SG7):   Firmware Version 6.7 Build 20190311
C1200/C1400/E1400 (SG6):   Firmware Version 6.7 Build 20190311
(SGx = System Generation)

  E1200:
    Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  E1400:
    Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
    Interfaces: EC, IP, PN, PL, SC
    Applications: -
  A1100:
    Interfaces: CO
    Applications: Autostart, Sinoide
  C1100:
    Interfaces: CO, DS, EC, PN, RS, SE
    Applications: Autostart, EasySteps
  I1100:
    Interfaces: DS, EC, MD, SE
    Applications: Autostart, EasySteps
  C1200:
    Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
    Applications: EasySteps

Fixed Bugs:
- LinMot-Talk: Downgrade on a B1100 to 6.3 20150416 did not work. Fixed. (D_L_B889).
- MC-SW SG5/6: The state machine went from state 9 over 7 to 8. This caused problems with some PLC libraries. State 7 is not staged anymore. (D_F_B1022).
- MC-SW SG6/7: The actual position ist not set correctly on a master homing command with BiSS. Fixed. (D_F_B1024).
- LinMot-Talk: Installation: Wrong file was loaded when installing a C1450-SE-VS-1S. Fixed. (D_L_B895).
- OS SG6, E1400: Stopping the drive over the RT Ethernet, the connection was lost because the interface was also stopped. Fixed. (D_F_B1027).
- Ethernet IP SG6: After a software download to the PLC, the communication wasn't always re-established. Fixed. (D_F_B1028)
- MC-Tree SG5: Error message 0x5C added in List. (D_F_B1031).
- PN on E1450: the RT Ethernet can loose communication when saving CT or curves. Fixed. (D_F_B1029).
- EULA: End User License Agreement updated. (D_D211).

Build 20181206
Zip-File: 0187-0001_SW_6V7_LinMot-Talk_6.7_Build_20181206.zip

LinMot-Talk 6   Program Version 6.7 Build 20181206
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.25 Build 20181206
E1200 (SG5):   Firmware Version 6.7 Build 20181206
A1100/C1100/I1100 (SG7):   Firmware Version 6.7 Build 20181206
C1200/C1400/E1400 (SG6):   Firmware Version 6.7 Build 20181206
(SGx = System Generation)

   E1200:
     Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
     Applications: EasySteps, MasterSlave
   E1400:
     Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
     Applications: EasySteps, MasterSlave
   B8050 / MB8050 ML (MC-Link)
     Interfaces: EC, IP, PN, PL, SC
     Applications: -
   A1100:
     Interfaces: CO
     Applications: Autostart, Sinoide
   C1100:
     Interfaces: CO, DS, EC, PN, RS, SE
     Applications: Autostart, EasySteps
   I1100:
     Interfaces: DS, EC, MD, SE
     Applications: Autostart, EasySteps
   C1200:
     Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
     Applications: EasySteps

Fixed Bugs:
- OS SG6: Stability for firmware installation improved. (D_F_B1004)
- LinMot-Talk: Motor wizard: when changing the sensor resolution for rotary motors, the update of the PID values was not done. Fixed. (D_L_B878)
- MC-SW: SG5-7: Applying the brake with motion profile DS did not work correctly. Fixed. (D_F_B1006)
- Installation: missing GSDML files added. (D_L_B873)
- OS SG5/6: Writing a RAM value via parameter service is only performed, when the new value is different from the old one. So the LinMot-Talk does not refresh the parameters all the time. (D_F_F976)
- Sercos SG5/6: When writing the bipolar torque limits (S-0-0092) over the SVC, the value was ignored by the MC-SW. Fixed. (D_F_B1008)
- MC-SW SG7: The position controller set selection in homing state did not work. Fixed. (D_F_B1012).
- LinMot-Talk: FW Installer: If drive hardware is not supported by the firmware installation, because it is too old or too new, the error message is now more precise. (D_L_B884)
- LinMot-Talk: FW Installer: Installation from an older version (up to 6.5) did not work properly. Fixed. (D_F_B1016).
- A1100: MC-Tree: analog mode did not work properly. The analog source was not handled correctly. Fixed. (D_F_B1017).

Build 20180921
Zip-File: 0187-0001_SW_6V7_LinMot-Talk_6.7_Build_20180921.zip

LinMot-Talk 6   Program Version 6.7 Build 20180921
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.25 Build 20180921
E1200 (SG5):   Firmware Version 6.7 Build 20180921
A1100/C1100/I1100 (SG7):   Firmware Version 6.7 Build 20180921
C1200/C1400/E1400 (SG6):   Firmware Version 6.7 Build 20180921
(SGx = System Generation)

  E1200:
    Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  E1400:
    Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
    Interfaces: EC, IP, PN, PL, SC
    Applications: -
  A1100:
    Interfaces: CO
    Applications: Autostart, Sinoide
  C1100:
    Interfaces: CO, DS, EC, PN, RS, SE
    Applications: Autostart, EasySteps
  I1100:
    Interfaces: DS, EC, MD, SE
    Applications: Autostart, EasySteps
  C1200:
    Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
    Applications: EasySteps

Fixed Bugs:
- MC-SW E1400: In brake state the IGBT diagnosis has raised an error. Suppressed. (D_F_B1001).
- Sercos ML (B8050): During the configuration of the CAN link a timer watch dog error was raised. Fixed. (D_F_B999).
- IP-ML (B8050): IP link did not respond. Fixed (D_F_B1000).
- LinMot-Talk: ADF Files V3S2 for PR01-70 rotary added. (D_L_F950)
- LinMot-Talk: LinMot-Talk: warning suppressed by missing html documentation parts. (D_L_F951).
- PROFIdrive Std Tlg 5 cast error for velocity fixed. (D_F_B1002).
- MC-SW SG5/6: VAI commands may calculate wrong demand position, because of a numeric problem. Fixed.
(D_F_B1005).

Build 20180828
Zip-File: 0187-0001_SW_6V7_LinMot-Talk_6.7_Build_20180828.zip

LinMot-Talk 6   Program Version 6.7 Build 20180828
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.25 Build 20180828
E1200 (SG5):   Firmware Version 6.7 Build 20180828
A1100/C1100/I1100 (SG7):   Firmware Version 6.7 Build 20180828
C1200/C1400/E1400 (SG6):   Firmware Version 6.7 Build 20180828
(SGx = System Generation)

   E1200:
     Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
     Applications: EasySteps, MasterSlave
   E1400:
     Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
     Applications: EasySteps, MasterSlave
   B8050 / MB8050 ML (MC-Link)
     Interfaces: EC, IP, PN, PL, SC
     Applications: -
   A1100:
     Interfaces: CO
     Applications: Autostart, Sinoide
   C1100:
     Interfaces: CO, DS, EC, PN, RS, SE
     Applications: Autostart, EasySteps
   I1100:
     Interfaces: DS, EC, MD, SE
     Applications: Autostart, EasySteps
   C1200:
     Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
     Applications: EasySteps

Fixed Bugs:
- LinMot-Talk: Calculation of rotary units, when depending on other parameters, was not correct. Fixed. (D_L_B867)
- MC-SW SG6: Modulo behaviour of RS01 and EC02 motors on start up was not identical. Fixed. (MC SW SG6)
- MC-SW SG6: Modulo position after homing was not correct. Fixed. (D_F_B989).
- MC-SW SG5: Position indexing per X4.9/X4.10 is not supported. Removed from parameter tree. (D_F_B990).
- MC-SW SG5: Homing direction with mode "Home Switch Negative" was not always correct. Fixed. (D_F_B991).
- MC-Trees SG5-7: The motor temperature with rotary units had an offset of 50°C (values showed 50°C higher than the reality). Fixed. (D_L_B868)
- LinUDP SG6 and Ehternet IP SG6: The communication did not establish, when the server has directly responded to the new DHCP address. Fixed. (D_F_B992).
- ADF file for PR01-70: Temperature model parameters adjusted. (D_L_B871).
- ADF file for PS01-48x240-XX: Value for force constant corrected. (D_L_B872).
- OS-SW SG5/6: When stopping MC-SW via real time interface, on restart the interface can time out while the MC-SW is starting up. Fixed. (D_F_B997).
- MC-SW SG7: Delay time of current coupling fixed. (Control behavior improved). (D_F_B998).

Build 20180702
Zip-File: 0187-0001_SW_6V7_LinMot-Talk_6.7_Build_20180702.zip

LinMot-Talk 6   Program Version 6.7 Build 20180702
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.24 Build 20180702
E1200 (SG5):   Firmware Version 6.7 Build 20180702
A1100/C1100/I1100 (SG7):   Firmware Version 6.7 Build 20180702
C1200/C1400/E1400 (SG6):   Firmware Version 6.7 Build 20180702
(SGx = System Generation)

  E1200:
    Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  E1400:
    Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
    Interfaces: EC, IP, PN, PL, SC
    Applications: -
  A1100:
    Interfaces: CO
    Applications: Autostart, Sinoide
  C1100:
    Interfaces: CO, DS, EC, PN, RS, SE
    Applications: Autostart, EasySteps
  I1100:
    Interfaces: DS, EC, MD, SE
    Applications: Autostart, EasySteps
  C1200:
    Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
    Applications: EasySteps

Fixed Bugs:
- SG5: EtherCAT xml-Files: Object 1A12 ind SG5 xml- file missing. Fixed. (D_F_D211)
- OS SG5-7: When stopping and restarting the MC-SW via interface, there will be written an error message "Fatal Err: Bad Motor Comm". Fixed. (D_F_B966).
- OS SG5 & 6: The oscilloscope has sampled too slow, when running in OS mode. Fixed. (D_F_B967)
- MC-SG6: The EnDat error decoding was wrong. Fixed. (D_F_B968).
- CM-IP Interface: When too many indications have been received, the mailbox could have been blocked. Fixed (D_F_B972)
- Interface IP, CIP Sync: The drive sets the synchronization flag before it really happened. Fixed. (D_F_B973)
- EtherCAT: Old xml files have been removed. (D_F_F953)
- OS SG7: When logged in with LinMot-Talk and sending the command default MC-SW parameters over the RT bus, it can a trap occur. Byte to byte time out added. Solved. (D_F_B974).
- Interface IP, CM: Interface firmware was updated.because of collision between set attribute single and get attribute single. (D_F_B975).
- Interface IP, CM: Installation of new firmware did not work, because a flash sector was not erased. Fixed. (D_F_B976).
- OS A1100: The RT LEDs did not light up. Port settings set correctly. (D_F_B977).

Build 20180517
Zip-File: 0187-0001_SW_6V7_LinMot-Talk_6.7_Build_20180517.zip

LinMot-Talk 6   Program Version 6.7 Build 20180517
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.24 Build 20180517
E1200 (SG5):   Firmware Version 6.7 Build 20180517
A1100/C1100/I1100 (SG7):   Firmware Version 6.7 Build 20180517
C1200/C1400/E1400 (SG6):   Firmware Version 6.7 Build 20180517
(SGx = System Generation)

  E1200:
    Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  E1400:
    Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
    Interfaces: EC, IP, PN, PL, SC
    Applications: -
  A1100:
    Interfaces: CO
    Applications: Autostart, Sinoide
  C1100:
    Interfaces: CO, DS, EC, PN, RS, SE
    Applications: Autostart, EasySteps
  I1100:
    Interfaces: DS, EC, MD, SE
    Applications: Autostart, EasySteps
  C1200:
    Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE, CM
    Applications: EasySteps

Features:
- MC SW New motion command (388x) «force ctrl inc act pos with force ctrl limit
  and target force» added. (F906).
- SG5 Sercos: Sercon100 image updated to Version 2.11 from Version 2.8. (F910)
- LinMot-Talk: Oscilloscope the keyboard buttons y,x,1,2,3,4,5,6,7,8 has
  functionality by zooming with the mouse wheel, the numbers also by fit view.
  (F914).
- sercos SG5/6: S-0-0092 (Bipolar torque limit) configurable in RT-Data.
  SG6 only: S-0-0082 and S-0-0083 (Posititve and Negative torque limit) added.
  (F922)
- EC, DS: New telegrams 1613, 1614, 1A12 are similar to telegrams 1603, 1604, 1A02 without OpMode added. (D_F924)
- OS/LinTalk: Supports higher Baudrates for RS232 Talk-Communication (e.g. 57600, 115200). (D_F904)
- LinMot-Talk: Message window added. Displays important messages, like motor wizard not done. (D_L_F915)
- MC-SW: SG6: Support of position correction tables. (D_F927)
- MC-SW: SG6: Support of EnDat as encoder. (D_F928)
- MC-SW: SG6/7: Support of BiSS-B/C (D_F929).
- MC-SW: SG6/7: Support of SSI for rotary motors. (D_F930).
- OS SG6/7: An installation counter is added. Each time a firmware installation is done, this counter is incremented. (D_F_F934).
- MC SW C1250: A single, periodic reluctance compensation is added for ForceCtrl functionality. LinMot motors and RS01 are supported. (D_F_F936).
- MC SW SG5-7: With MC command 382x the Force Ctrl Mode is activated, if it wasn't before. (D_F_F937).
- LinMot-Talk: Parameter Inspector: Shows additionally the RAM value. (D_L_F927).
- LinMot-Talk: Firmware installation can be done only if the LinMot-Talk version is equal or newer than the actual installed firmware on the drive. (D_F_F928)
- OS SG5-7: PnP behaviour changed the way, that a switch from a PnP motor to a non PnP motor is supported. (D_F_F935).
- Linmot-Talk: Faulhaber EC and Harmonic Drive FHA C Mini series supported with rotary units. (D_L_F925)
- Linmot-Talk: Zoom of channels improved by key combinations (D_L_F_931).
- OS SG6/7: Saving remanent memory speeded up. (Higher loads can be connected on the +5VDC). (D_F_F934)

- LinMot-Talk: Motor wizard supports EC-02 motors. (D_L_F_929)
- LinMot-Talk: Motor wizard: Page added for setting the PDI parameters for linear-rotary motors. (D_L_F_930).
- LinMot-Talk: Oscilloscope trigger mode "Change" added. (D_L_F934).
- LinMot-Talk: Motor wizard supports change of PR01 linear motor direction. (This feature does not work with motor version V3S1). (D_L_F935)

Fixed Bugs:
- OS SG6: When sending a reset request over RT Ethernet (e.g. Ethernet I/P) the
  answer was not always correctly sent before the drive resets. Fixed. (B804)
- OS SG6: Lintalk commands via RT ETH that request a longer timeout are missing
  the second answer after the command is done (e.g. RET_OK). Fixed. (B805)
- E1250-SE: Drive goes into fatal error state when FW is stopped. Fxed. (B825)
- C1250-IP: when logged in over config ETH over RT, the connection is interrupted,
  when sending the stop command. Fixed (B827).
- Powerlink SG5 & SG6: EPL-Frames can be read with the wrong start offset from
  the switch. This leads to misinterpretation of frame content ? All process data
  (including MC commands and RT config module) can have arbitrary values.
  Fixed. (B831)
- sercos SG6: Homing via PFC 148 failed after 3rd time. Fixed. (B836)
- SG7: MC SW scaling of speed and acceleration with continuous curve was wrong.
  Fixed. (B838)
- SG5/6: MC SW VAI motions didn't terminate in every situation. Fixed. (B839)
- SG7: MC SW SG7 motor ActForce was stored in variable MaxForce. Fixed. (B840)
- OS SG6: Command-Table and Curve Service do not work via Lintalk when logged in
  over RT ETH. Trap when either CS or CT is written to Flash. Fixed. (B852)
- MC SW SG6: The initial position of rotative motors with SSI/BiSS-B/BiSS-C
  single-turn encoder, which are not homed and powered-up between position U/2
  and U (where U is a full turn), is set to U, instead of 0. Fixed. (B854)
- CO-Intf: Cannot be started separately via Run Request Flag. Fixed. (B782)
- SG7: AB sensors with more counts per revolution than 0x10000 did not work, the commutation went wrong. Fixed. (D_F_B944).
- Powerlink XDD files generatee warnings when importing in B&R AutomationStudio 4.5. Fixed. (D_F_B947)
- E1200-SoE : After stopping the firmware, all parameters are read out again. Fixed. (D_F_B938).
- SG7: Position Recovery SSI/BiSS with AB sensor did not work. Fixed. (D_F_B949)
- OS SG6: The webserver displays the I/O information not correctly. Fixed. (D_F_B950).
- OS SG6: The webserver on drive may cause a timer watchdog, if multiple access is done. Fixed. (D_F_B951).
- OS SG6: Stop and start over realtime config did not work properly. Fixed. (D_F_B952).
- MC SG6/7: When direction is changed via wizard, the homing with absolut sensors did not work properly. Fixed. (D_F_B954).
- LinRS SG7: When writing RAM and ROM value via LinRS with Main-ID: 03 and SUB-ID: 04, then only the ROM value was written. Fixed. (D_F_B965)

Build 20180509
Zip-File: 0187-0001_SW_6V6_LinMot-Talk_6.6_Build_20180509.zip

LinMot-Talk 6   Program Version 6.6 Build 20180509
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.24 Build 20180509
E1200 (SG5):   Firmware Version 6.6 Build 20180509
A1100/C1100/I1100 (SG7):   Firmware Version 6.6 Build 20180509
C1200/C1400/E1400 (SG6):   Firmware Version 6.6 Build 20180509
(SGx = System Generation)

  E1200:
    Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  E1400:
    Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
    Interfaces: EC, IP, PN, PL, SC
    Applications: -
  A1100:
    Interfaces: CO
    Applications: Autostart, Sinoide
  C1100:
    Interfaces: CO, DS, EC, PN, RS, SE
    Applications: Autostart, EasySteps
  I1100:
    Interfaces: DS, EC, MD, SE
    Applications: Autostart, EasySteps
  C1200:
    Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE
    Applications: EasySteps

Fixed Bugs:
- OS SG7: First byte access of serial EEPROM via c-Functions of PSRV failed. Fixed. (D_F_B939)
- OS SG6: When installing with connected RT-Bus, erasing of flash can fail with error 0xD6. Fixed. (D_F_B940)
- SERCOS SG5/6: Homing procedure PFC-0148 can fail with PVT-Buffer underflow. Fixed. (D_F_B941)
- MC SW SG7: AB sensors with higher counts / revision values did not work. A false value was calculated for the commutation length. Fixed. (D_F_B944).
- Easy Steps SG6: "Goto Initial Position" did not work in any case. Fixed. (D_F_B946)

Build 20180226
Zip-File: 0187-0001_SW_6V6_LinMot-Talk_6.6_Build_20180226.zip

LinMot-Talk 6   Program Version 6.6 Build 20180226
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.24 Build 20180226
E1200 (SG5):   Firmware Version 6.6 Build 20180226
A1100/C1100/I1100 (SG7):   Firmware Version 6.6 Build 20180226
C1200/C1400/E1400 (SG6):   Firmware Version 6.6 Build 20180226
(SGx = System Generation)

  E1200:
    Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  E1400:
    Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
    Interfaces: EC, IP, PN, PL, SC
    Applications: -
  A1100:
    Interfaces: CO
    Applications: Autostart, Sinoide
  C1100:
    Interfaces: CO, DS, EC, PN, RS, SE
    Applications: Autostart, EasySteps
  I1100:
    Interfaces: DS, EC, MD, SE
    Applications: Autostart, EasySteps
  C1200:
    Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE
    Applications: EasySteps

Fixed Bugs:
- C1400: MC-SW: IGBT alarm was not locked when STO was active. Fixed. (D_F_B930)
- LinMot-Talk: adp-Files: Force constant for 12mm hollow sliders was fixed. (D_L_B859).
- MC-SW SG7: Jogging speed was only 0.06m/s. Fixed. (D_F_B931).
- OS SG7: When PnP was off, the drive could have stucked on startup. Fixed. (D_F_B933).
- New GSDML files for all PN drives to avoid missing "Knotentaufe" with newer Siemens CPU firmwares. (D_F_B935)
- IGs: C1100, C1200, C1400, E1400: Maximal cable length information added or
  made more prominent. (D_F_D207).

Build 20180111
Zip-File: 0187-0001_SW_6V6_LinMot-Talk_6.6_Build_20180111.zip

LinMot-Talk 6   Program Version 6.6 Build 20180111
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.24 Build 20180111
E1200 (SG5):   Firmware Version 6.6 Build 20180111
A1100/C1100/I1100 (SG7):   Firmware Version 6.6 Build 20180111
C1200/C1400/E1400 (SG6):   Firmware Version 6.6 Build 20180111
(SGx = System Generation)

  E1200:
    Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  E1400:
    Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
    Interfaces: EC, IP, PN, PL, SC
    Applications: -
  A1100:
    Interfaces: CO
    Applications: Autostart, Sinoide
  C1100:
    Interfaces: CO, DS, EC, PN, RS, SE
    Applications: Autostart, EasySteps
  I1100:
    Interfaces: DS, EC, MD, SE
    Applications: Autostart, EasySteps
  C1200:
    Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE
    Applications: EasySteps

Fixed Bugs:
- MC-SW SG3-7: Phase output frequency increased to 599 Hz. (D_F_B924)
- LinMot-Talk: adf-Files: Temperature model parameters for linear motors in LinRot-Motors adjusted. (D_F_B925).
- Linmot-Talk: eds-files: EDS file for C1400 was missing. Added. (D_F_B926)
- LinMot-Talk: adf-Files: ZP for sliders were wrong. Fixed. (D_F926)
- OS SG7: State Machine for serial EEPROM may be stucked, when a huge amount of messages are logged. Fixed. (D_F_B926).
- MC-SW I1150: Parameter for brake set and release delay time was missing. Added. (D_F_B927).
- Install Script:: E1200-PN installation got wrong PN image. Fixed. (D_L_B857).

Build 20171108
Zip-File: 0187-0001_SW_6V6_LinMot-Talk_6.6_Build_20171108.zip

LinMot-Talk 6   Program Version 6.6 Build 20171108
B1100 (SG4) / E1100 (SG3): Firmware Version 3.24 Build 20171108
E1200 (SG5):   Firmware Version 6.6 Build 20171108
A1100/C1100/I1100 (SG7): Firmware Version 6.6 Build 20171108
C1200/C1400/E1400 (SG6): Firmware Version 6.6 Build 20171108
(SGx = System Generation)

 E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
 E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
 B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
 A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
 C1100:
  Interfaces: CO, DS, EC, PN, RS, SE
  Applications: Autostart, EasySteps
 I1100:
  Interfaces: DS, EC, MD, SE
  Applications: Autostart, EasySteps
 C1200:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps

Features:
- Installation: C1400 drives cleaned up (0S and GP removed). (F919)

Fixed Bugs:
- LinMot-Talk: Curve tool: auto numerate curves button was invisible, but worked. Fixed. (B851).
- Installation: C1450 V1RF was missing in installation script. Added. (B854)
- MC SW SG6: The initial position of rotative motors with SSI/BiSS-B/BiSS-C single-turn encoder, which are not homed and powered-up between position U/2 and U (where U is a full turn), is set to U, instead of 0. Fixed. (B855)

Build 201670905
Zip-File: 0187-0001_SW_6V6_LinMot-Talk_6.6_Build_20170905.zip

LinMot-Talk 6   Program Version 6.6 Build 20170905
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.24 Build 20170905
E1200 (SG5):   Firmware Version 6.6 Build 20170905
A1100/C1100/I1100 (SG7):   Firmware Version 6.6 Build 20170905
C1200/C1400/E1400 (SG6):   Firmware Version 6.6 Build 20170905
(SGx = System Generation)

  E1200:
    Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  E1400:
    Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
    Interfaces: EC, IP, PN, PL, SC
    Applications: -
  A1100:
    Interfaces: CO
    Applications: Autostart, Sinoide
  C1100:
    Interfaces: CO, DS, EC, PN, RS, SE
    Applications: Autostart, EasySteps
  I1100:
    Interfaces: DS, EC, MD, SE
    Applications: Autostart, EasySteps
  C1200:
    Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE
    Applications: EasySteps

Features:
- LinMot-talk: PnP Motor Files for Version V3S3 added. (F912)

Fixed Bugs:
- SG7: MC SW scaling of speed and acceleration with continuous curve was wrong. Fixed. (B838)
- SG5/6: MC SW VAI motions didn't terminate in every situation. Fixed. (B839)
- SG7: MC SW SG7 motor ActForce was stored in variable MaxForce. Fixed. (B840)
- LinMot-Talk: Generating mdf file results in an access violation. (B841)
- SG6: C1400: Flash protection sequence during startup fixed. (B846).
- UPID 0x1E64 changed to UINT16 in tree. (B847)
- MC-SW: CT command IfAnalogValueOnX4.11works with the wrong scaling and works on X4.9. Fixed. (B848)
- Profidrive: Article number for C1450-PD corrected in GSDML file (xml). (B849)
- SG5-7: Intf PN IRT output data is written one cycle earlier. (B850)
- SG5/6: Powerlink: No communication is established via PL under rare conditions. Startup sequence modified. Fixed. (B853)

Release Information LinMot-Talk 6

Build 201670522
Zip-File: 0187-0001_SW_6V6_LinMot-Talk_6.6_Build_20170522.zip

LinMot-Talk 6   Program Version 6.6 Build 20170522
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.24 Build 20170522
E1200 (SG5):   Firmware Version 6.6 Build 20170522
A1100/C1100/I1100 (SG7):   Firmware Version 6.6 Build 20170522
C1200/C1400/E1400 (SG6):   Firmware Version 6.6 Build 20170522
(SGx = System Generation)

  E1200:
    Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  E1400:
    Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
    Interfaces: EC, IP, PN, PL, SC
    Applications: -
  A1100:
    Interfaces: CO
    Applications: Autostart, Sinoide
  C1100:
    Interfaces: CO, DS, EC, PN, RS, SE
    Applications: Autostart, EasySteps
  I1100:
    Interfaces: DS, EC, MD, SE
    Applications: Autostart, EasySteps
  C1200:
    Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE
    Applications: EasySteps

Fixed Bugs:
- SG5: Master Slave: MS connection stopped after 10s, when more than 1 slave was connected. Drive goes from Data Exchange to Timeout and recovers. Fixed. (B806).
- SG5 Master Slave: The error messages were not displayed in the decoded representation. There was a problem with the source ID. Fixed. (B807).
- LinMot-Talk: Save Configuration when the new Curves are not downloaded resulted in a freeze of the LinMot-Talk. Fixed (B808).
- LinMot-Talk SG5-7: After using a rotary Motor with rotary units, then plug in a linear motor and config it over the motor wizard, there are still the rotary units active. When defaulting the MC parameters, also the rotary unit parameters in OS (UPIDs 0x0800-0x0808) will be defaulted. Fixed (B810).
- LinMot-Talk SG3-7: Genrating the motion command list under manuals results in an access violation because of a missing unit definition. Fixed. (B811).
- Master Slave SG7: Slave position and speed interpolation did not work, because interpolation factor was 0. Fixed. (B813).
- PD SG6/7: Siemens Tlg105 Xerr was absolute before. Now it is relative to internal PosDiff. Fixed. (B814)
- LinMot-Talk: Motor Wizard: If a E1200 is selected, no Regeneration Resistor can be selected. Fixed. (B815).
- MC-SW SG7: If position recovery is activated with an absolute sensor and the position limits are used, Min Position (UPID $146E) is set >0, the drive will produce the error "Min Pos Overshoot) and the home bit will be cleared. Fixed. (B817).
- PD SG6/7: Servo task settings slower than communication task (multiplier) was not possible. Added. (B818).

Build 201670410
Zip-File: 0187-0001_SW_6V6_LinMot-Talk_6.6_Build_20170410.zip

LinMot-Talk 6   Program Version 6.6 Build 20170410
B1100 (SG4) / E1100 (SG3):   Firmware Version 3.24 Build 20170410
E1200 (SG5):   Firmware Version 6.6 Build 20170410
A1100/C1100/I1100 (SG7):   Firmware Version 6.6 Build 20170410
C1200/C1400/E1400 (SG6):   Firmware Version 6.6 Build 20170410
(SGx = System Generation)

  E1200:
   Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
   Applications: EasySteps, MasterSlave
  E1400:
   Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
   Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
   Interfaces: EC, IP, PN, PL, SC
   Applications: -
  A1100:
   Interfaces: CO
   Applications: Autostart, Sinoide
  C1100:
   Interfaces: CO, DS, EC, PN, RS, SE
   Applications: Autostart, EasySteps
  I1100:
   Interfaces: DS, EC, MD, SE
   Applications: Autostart, EasySteps
  C1200:
   Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE
   Applications: EasySteps

Features:
- MC-SW SG6 (C1200): Modulo for rotative motors added with three modes: VAI Modulo Go To Pos Positive Direction (3C0xh), Negative Direction (3C1xh) and Shortest Way (3C2xh). (F646)
- PD SG6: Following error at higher speeds. Death time, with Siemens controller. (F789)
- MC-SW: SG6 (except C1400): BiSS-B and BiSS-C. (F805)
- MC-SW: SG6: Min. Temp limit with KTY sensors SW added. (F807)
- SG6&7 support of KTY84 and PT1000 Motor temp sensors on X3. (F810)
- MC-SW: SG6/7: PD Support of Siemens TDB added. (F811)
- MC-SW: SG6/7: Support of Regeneration in Motor. (F812)
- POWERLINK SG5/6: RX-Queue of Powerlink MAC enhanced to be able to buffer more frames before an overrun occurs. (F815)
- OS SG5-7: OSCI: Trigger condition "Not Equal" added. (F825)
- Sercos: SG6: Config over RT Bus added. (F826)
- OS SG5-7: Check added for how much time there is left after Remanent block is safed. If the time is too low, an nonfatal error will be generated. (F830)
- MC-SW: Brake function: Drive brake only with enable. Add apply delay time (Add check box). (F831)
- SG5, MC-SW: Make variables "Winding Application" visible for user. (F834)
- EPL SG5/6: MCSW Task synchronized to SoC to eliminate beat effects between interface data evaluation in the PLC and the drive. Timestamp jitter for streaming improved. (F837)
- MC-SW: Add command: like 016xh with reset I accumulator. Command: 0x00Ax. (F840)
- MC-SW: Add command Set Dem Pos = Act Pos and reset I accumulator Command: 0x0D9x. (F841)
- MC-SW: Dead time compensation for 3phase motors added. (F842).
- LinMot-Talk: adp files for stator programming version V3S2 added. (F844).
- sercos SG5/SG6: Implemented GDP_RST (IDN S-0-1350) to reboot the device. (F848)
- MC-SW SG5-7: Command 0x00Ex "Reconnect Motor" added. (F850).
- MC-SW SG5-7: Command 0x00Dx "Disconnect Motor" added. (F851)
- MC-SW SG6: Force Control: FF Friction (UPID 0x150B) and FF Acceleration (UPID 0x150C) added. (F853).
- Sercos SG5/6: Start of MCSW-Tasks is now synchronized to reception of MDT-Telegrams. (F857)
- LinMot-Talk: Wizard supports BiSS encoders. (F858)
- LinMot-Talk: MDF-Generator: Another window added to define a list with additional UPIDs and values to be set. (F875)

- EtherNet/IP: The receive procedure is managed by interrupt. The jitter is smaller and is more robust for broadcast traffic. (F879)
- LinMot-Talk:Support of rotary units added. (F881)
- OS: SG5/6: State machine changed. Before MC-SW is started, the PnP setup is always done. This avoids the error message "Wrong Stator Type" when configured over the RT bus and no reboot is done. (F882)
- SG7: Appl Gantry Master Slave via CAN added. (F891)

Fixed Bugs:
- CANOpen SG7: COB-Ids of TXPDOs and RXPDOs (e.g. Object 0x1400sub1) cannot be changed via SDO access. Fixed. (B728)
- PN Input size of Get Actual Position in GSDML-file was 2 bytes instead of 4 bytes. Fixed. (B729)
- OS SG5: Intf Trees could not be downloaded via Lintalk. Fixed. (B731)
- B1100: MC-SW: EC motors may turn in the wrong direction when jog moves are executed. Fixed (B734).
- LinUDP_V2 SG5 when the MC Software is stopped after a short time LinUDP loose the connection. Fixed (B740).
- SG6: After a flash access, a timer struggle message was shown and logged. This was a false alarm. Fixed. (B741)
- SG6: Installation may result in timeout and no communication is possible anymore. (Problem with flash lock). Fixed. (B742)
- SG7: MC-SW: In two phase model, the temp calculated error on phase 2 does not turn off the motor. This problem exists since version 6.5. Fixed (B743)
- SG7: LinRS: Sending of packets sometimes stops. The driver output enable may be disabled unintentionnaly. Fixed. (B745)
- SG7: LinRS: Parameter "Time Out" (UPID 208Bh) had no influence. Fixed. (B747)
- C1150-DS-1S: Parameter "Periods per Revolution" (UPID 11ECh) was missing. The motor wizard in LinMot-Talk ended up with a division by zero error. Fixed. (B749)
- PL SG5/6: Default Value and Calculation of Object 1F98 sub05 (PResActPayloadLimit) were incorrect. Fixed. (B750)
- PL SG5/6: Peaks to maximum value of Demandposition while P-Streaming and PVT Buffer Errors when setting the tolerance to 0 fixed --> Timestamping is now done in MCSW Cyclic Function. Fixed. (B751)
- MC-SW SG5: Default value of parameter "Phase Voltage Low Level" (UPID 0x102C) set to 2.54V. (B752)
- Motor data: adf/adp-Files: Short time overload model parameters (C Winding (UPID 0x122A) and R Winding-Sensor (UPID 0x122B)) for 37Sx60 and 48x360 motors corrected. (B754)
- MC-SW: SG7: When brake is activated and Noise Dead Band is active, the demand current was not set to 0A, even when Maximal Current is set to 0A. Fixed. (B756).
- MC-SW: SG7: Brake apply delay time is only ½ of the correct value. (B758)
- EDS-File for C1250-IP-XC-0S had not the correct datatype. It did not function with the Add on instruction. (B759)
- OS SG7: Application parameter tree values are not correct. UPIDs 0x058C, 0x05A0, 0x05A. Fixed. (B762)
- OS SG6 C1250: TCP Frames received over RT Ethernet led to a trap because tcpip_init() was only executed on E1400 series drives. (B763)
- SG6, VAJI Increment Act Pos Starting with Dem Vel = 0 and Dem Acc = 0 (346xh): As soon as a rotative motor moves from +210000mm to -210000mm (or another increment command over the INT32 range), the motor changes the direction and turns all back to -210000mm. Fixed. (B765)
- SG5&6: OS: Start MC-SW from interface results in a trap, when MC is already running. Fixed. (B766)
- OS: GetErrorMsgStringLet did not work for MC and INTF messages. Error messages could not be displayed correctly over the RT bus. Fixed. (B767).
- MC SW SG6: Commands 3AAxh, 3ABxh, 3ACxh, 3ADxh, 3BAxh, 3BBxh, 3BCxh, 3BDxh had wrong parameters. Fixed. (B768)
- LinRS: Byte to byte time out bug fixed. Time out counter was also running in idle state. Fixed. (B769)
- sercos SG5/SG6: Duration of IP-Window during RT-Traffic increased. A lack of throughput could result in Indra-Drives not being able to update their firmware correctly. Fixed (B770).
- OS SG5/6: Port access to LED pins made uninterruptable. Problems with LinRS driver cannot occur anymore. (B771)
- OS: OSCI: UINT8 or SINT8 types with odd address could not be sampled. Fixed (B773).
- EasySteps SG7: Autostart mode did not work (only problem in 6.6 20170104-IM) Only temporary problem with new switch on sequence (adaption to C1200). Fixed (B775).
- OS SG7: When writing ROM bit parameters, it could happen, that other bits in the same word or byte are altered. Fixed. (B777)
- OS: SG7: Several deleting and writing of curves destroys Command table. Fixed. (B779)
- LinRS SG6/SG4: Checksum calculation in mode "Add" was wrong. Start Value was always assumed as 0000h.Fixed. (B780)
- Oscilloscope SG6: Trigger on STO input did not work. Fixed. (B781)
- LinMot-Talk: Voltage enable set over X4.6 in 0S-Drives did not affect Voltage Enable flag. Fixed. (B783)
- LinMot-Talk: When motor PS01-23x80 is selected, and slider PL01-12x130/90-LC, the slider was not stored in the wizard. Fixed. (B784)
- EtherNet/IP: If a message is received, which looks like forward open but shorter, then the sequence number was set back to 0, which caused a Realtime IO Timeout. Fixed. (B785)

- MC-SW: (E1100): If "Jogging Mode" is set to "Speed Limited Move", only positive direction works. In negative direction nothing happens. Fixed. (B789)
- PN SG6: Bus timing improved. Very rarely wrong data was loaded. Fixed. (B790).
- sercos SG5: Erronous sercos error counter fixed. The counter incremented even if there was no real error. Fixed. (B791)
- sercos SG5/6: initiating Homing via Interface while drive is operational could lead to error "Motion Command in Wrong State". Fixed. (B792)
- SG3: MasterSlave Application E1100: Source ID in tree corrected from 1002h to 2001h. Error descriptions in the error log when read with LinMot-Talk are now correct. Fixed. (B793)
- SoE: Homing with Home Switch Positiv does not work properly. Fixed. (B794).

- SG7: MC-SW: VAI infinite motion could start with wrong start values (Problem homing SoE). Fixed. (B795)
- PLC does not receive those in time and resets the drive again and again. Fixed. (B796)
- CANOpen SG6: Timing for Errorcontrol and sync monitoring fixed (250us and not 200us MC-cycle). Fixed. (B797)
- LinMot-Talk: Stop script did not work. Fixed. (B799)
- MC-SW SG6: EncoderSimulation on E1400 did not work. Fixed. (B800)
- MC-SW: SG7: For rotary motors one revolution could only be defined as 36mm. Fixed. (B802)

Build 20160927
Zip-File: 0187-0001_SW_6V5_LinMot-Talk_6.5_Build_20160927.zip

LinMot-Talk 6   Version 6.5   Build 20160927
B1100/E1100 Series Firmware: Version 3.23 Build 20160927
E1200 Series Firmware: Version 6.5   Build 20160927
A1100/C1100 Series Firmware: Version 6.5   Build 20160927
C1200/C1400/E1400 Series Firmware: Version 6.5   Build 20160927

  E1200:
    Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  E1400:
    Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
    Interfaces: EC, IP, PN, PL, SC
    Applications: -
  A1100:
    Interfaces: CO
    Applications: Autostart, Sinoide
  C1100:
    Interfaces: CO, DS, EC, PD, PN, RS
    Applications: Autostart, EasySteps
  C1200:
    Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE
    Applications: EasySteps

Features:
- LinMot-Talk: ADP files version 3.2 added. (F817)

Fixed Bugs:
- Ethernet-IP: SG5/6: Less Calc Time C1 occurred. Fixed. (B714)
- LinMot-Talk: Saving congurations from offline Drives was not possible. Fixed. (B732)
- B8050: Ethernet IP communication timeout occurred. Fixed. (B733)
- C1250: Show IP Address incorrect by save configuration over Realtime. Fixed. (B737)
- LinMot-Talk: When connection lost, the configuration safed had no data. Fixed. (B738).

Build 20160711
Zip-File: 0187-0001_SW_6V5_LinMot-Talk_6.5_Build_20160711.zip

LinMot-Talk 6   Version 6.5   Build 20160711
B1100/E1100 Series Firmware: Version 3.23 Build 20160711
E1200 Series Firmware: Version 6.5   Build 20160711
A1100/C1100 Series Firmware: Version 6.5   Build 20160711
C1200/C1400/E1400 Series Firmware: Version 6.5   Build 20160711

 E1200:
   Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
   Applications: EasySteps, MasterSlave
 E1400:
   Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
   Applications: EasySteps, MasterSlave
 B8050 / MB8050 ML (MC-Link)
   Interfaces: EC, IP, PN, PL, SC
   Applications: -
 A1100:
   Interfaces: CO
   Applications: Autostart, Sinoide
 C1100:
   Interfaces: CO, DS, EC, PD, PN, RS
   Applications: Autostart, EasySteps
 C1200:
   Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE
   Applications: EasySteps

Features:
- MC-SW: SG5-7: Before HW tests demand position is set to actual position. (F807).

Fixed Bugs:
- SG7: Timer Watch Dog Error when writing CT or curves to flash via interface. Since Build 20160325. Fixed. (B719)

- E1400 and C1400 Switch on Current limit (UPID 0X102F) increased to 1A (B720)

- E1100 and B1100 Switch on Phase Voltage low limit (UPID 0X102C) decreased to 2.5V. (B721)

- SG7: CO: Writing CT entries via SDO did not work correctly. Fixed. (B723)

- SG5-7: LinRS: Various length in default response. Fixed. (B726)

Build 20160622-IM
Zip-File: 0187-0001_SW_6V5_LinMot-Talk_6.5_Build_20160622c-IM.zip

LinMot-Talk 6   Version 6.5   Build 20160622-IM
B1100/E1100 Series Firmware: Version 3.23 Build 20160622-IM
E1200 Series Firmware: Version 6.5   Build 20160622-IM
A1100/C1100 Series Firmware: Version 6.5   Build 20160622-IM
C1200/C1400/E1400 Series Firmware: Version 6.5   Build 20160622-IM

  E1200:
    Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  E1400:
    Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
    Applications: EasySteps, MasterSlave
  B8050 / MB8050 ML (MC-Link)
    Interfaces: EC, IP, PN, PL, SC
    Applications: -
  A1100:
    Interfaces: CO
    Applications: Autostart, Sinoide
  C1100:
    Interfaces: CO, DS, EC, PD, PN, RS
    Applications: Autostart, EasySteps
  C1200:
    Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE
    Applications: EasySteps

Features:
- OS SG5-7: PnP Only parameters from UPID list, which are not defined with new motor will be set to default. The motor parameter buffer on drive side will be defaulted first. (F799)
- CANOpen SG7: Baudrate Autodetection implemented. (F803)

Fixed Bugs:
- E1100: Hall Switch W on X3 is not read in. (Wrong Port direction). Fixed. (B717)

Documents:
- German installation guides for C1100 and C1200 added. (D192)

Build 20160613-IM

LinMot-Talk 6	Version 6.5 Build 20160613-IM
B1100/E1100 Series Firmware:	Version 3.22 Build 20150416
E1200 Series Firmware:	Version 6.5 Build 20160613-IM
A1100/C1100 Series Firmware:	Version 6.5 Build 20160613-IM
C1200/C1400/E1400 Series Firmware:	Version 6.5 Build 20160613-IM

E1200:
  Interfaces: CO, DP, DS, EC, IP, LU, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
E1400:
  Interfaces: CO, DP, DS, EC, IP, LU, PD, PL, PN, RS, SC, SE
  Applications: EasySteps, MasterSlave
B8050 / MB8050 ML (MC-Link)
  Interfaces: EC, IP, PN, PL, SC
  Applications: -
A1100:
  Interfaces: CO
  Applications: Autostart, Sinoide
C1100:
  Interfaces: CO, DS, EC, PD, PN, RS
  Applications: Autostart, EasySteps
C1200:
  Interfaces: DS, EC, IP, LU, PD, PL, PN, SC, SE
  Applications: EasySteps

(Interface key: CO: CANopen, DP: Profibus DP, DS: EtherCAT CoE, EC: EtherCAT, IP: Ehternet IP, LU: LinUDP, PL: PowerLink, PN: PROFINET, RS: LinRS, SC: sercos, SE: EtherCAT CoE)

Features:

- SG6, SG7: Phase Search with minimal movement. (F698)

- SG7: SSI supported during operation (additional to position recovery) for linear motors. (F775)

- E1400 PTC, KTY and PT1000 Evaluation on X2 implemented. (F795)

- SG6: MC-SW: Command „Mod. Command Table 32/16Bit" added. (F796)

Fixed Bugs:

- SG5/SG6: Master Slave: On a restart of one drive, the MS communication is lost. Fixed. (B713)

- E1400 V2 Master encoder on X10 didn't work. Fixed. (B715)

- E1400 V2 Encoder simulation didn't work. Fixed. (B716)

Build 20160517-IM

LinMot-Talk 6   Version 6.5   Build 20160517-IM
B1100/E1100 Series Firmware: Version 3.22 Build 20150416
E1200 Series Firmware: Version 6.5   Build 20160517-IM
A1100/C1100 Series Firmware: Version 6.5   Build 20160517-IM
C1200/C1400/E1400 Series Firmware: Version 6.5   Build 20160517-IM

   E1200/E1400: Supported Interfaces:
     Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos,
     sercos over EtherCAT, CANopen over EtherCAT, LinUDP, LinUDPV2, PROFINET, DS402 over EtherCAT
   B8050 / MB8050 ML (MC-Link) Supported Interfaces:
     PowerLink, EtherCAT, EthernetIP, sercos, PROFINET
   A1100: Supported Interfaces:
    CANopen
   C1100: Supported Interfaces:
     CANopen, EtherCAT, PROFINET, DS402 over EtherCAT, PROFIdrive
   C1200: Supported Interfaces:
     EtherCAT, EthernetIP, PowerLink, LinUDPV2, PROFINET, sercos, sercos over EtherCAT,
     DS402 over EtherCAT, PROFIdrive

Features:

- LinMot-Talk: Save / Load workspace configurations. Multiple drive configurations can be stored and loaded together. So a complete machine configuration stays consistent. (F415)
- POWERLINK SG5: CN asynchronous reaction time optimized from ~100us down to ~10us. (F784)

- Installation Guides: Declaration of Conformity CE-Marking updated according to new directives.

Fixed Bugs:

- SG7: OS: Address of monitoring variables used in MC-SW, defined by UPIDs, may be wrong. Fixed. (B703)

- PN SG5: If Flash operations (e.g. write curves to flash) are executed, the Profinet Interface stops working -> TPS-1 watchdog was not toggled during flash operations. Fixed (B704).

- SG7: If invalid UPIDs are used as a value to configure other parameters (e.g. Range indicator 1 Minuend UPID) in LinMot-Talk, the drive does not start up anymore and a SW trap occurs. Fixed. (B705).
- E1400-V2: Master encoder on X13 does not work. Fixed. (B706)

- MC-SW A1100: Temperature parameter scaling was wrong. Fixed. (B707)

- Sercos SG5/6: If the SVC channel is mapped in a different AT/MDT than the rest of the data, the SVC channel does not work. Fixed. (B709)

- EthernetIP: MCSW stopping fieldbus does not work with RPI 1ms. Fixed (B710)

- LinUDP: write UPID, the Dirve does not answer on the first request, after the second request it works normal. Fixed. (B711)

- MC-SW E1400: Masterencoder: both sources X10 and X13 are not processed. The counter stays at 0 and the position indexer does not work. Fixed. (B712).

Build 20160325-IM

LinMot-Talk 6   Version 6.5   Build 20160325-IM

```
B1100/E1100 Series Firmware:              Version 3.22  Build 20150416
E1200 Series Firmware:                    Version 6.5   Build 20160325-IM
A1100/C1100 Series Firmware:              Version 6.5   Build 20160325-IM
C1200/C1400/E1400 Series Firmware:        Version 6.5   Build 20160325-IM
```

E1200/E1400: Supported Interfaces:
   Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos,
   sercos over EtherCAT, CANopen over EtherCAT, LinUDP, LinUDPV2, PROFINET, DS402 over EtherCAT
B8050 / MB8050 ML (MC-Link) Supported Interfaces:
   PowerLink, EtherCAT, EthernetIP, sercos, PROFINET
A1100: Supported Interfaces:
   CANopen
C1100: Supported Interfaces:
   CANopen, EtherCAT, PROFINET, DS402 over EtherCAT, PROFIdrive
C1200: Supported Interfaces:
   EtherCAT, EthernetIP, PowerLink, LinUDPV2, PROFINET, sercos, sercos over EtherCAT,
   DS402 over EtherCAT, PROFIdrive

Features:

- MC-SW: (SG7) Predef VAI Increment Act Pos by Cmd Tab Var1 added. (0D2xh)

Fixed Bugs:

- OS SG7: Login not possible after a trap or wdt occurs. LED Pattern to indicate the different kinds of traps does not work correctly. Fixed. (B694).
- OS SG7: (Infineon Errata PVC_X.H001): PVC Threshold Level 2 interrupt: Due to variations of the tolerance of both the Embedded Voltage Regulators (EVR) in the CPU, this interrupt can be triggered inadvertently, even though the core voltage is within the normal range. This leads to a Trap since this interrupt triggers the same source as the timer watchdog. The user sees a timer watchdog error entry in the error log even though the reason was a different one. Fixed. (B697)
- EasyStep SG7 didn't work in 6.5 IM build. Fixed. (B698)
- E1250-SE the Velocity command value in MDT 1 did not work in Build 6.4. Fixed. (B699)
- C1250 Easy Steps analog Parameter Scale on differential channel fixed. (B701)
- LinMot-Talk: Control Panel: Display of digital outputs on A1100 fixed. (B702)

Build 20160222-IM

LinMot-Talk 6   Version 6.5   Build 20160222-IM
B1100/E1100 Series Firmware: Version 3.22 Build 20150416
E1200 Series Firmware: Version 6.5   Build 20160222-IM
A1100/C1100 Series Firmware: Version 6.5   Build 20160222-IM
C1200/C1400/E1400 Series Firmware: Version 6.5   Build 20160222-IM

    E1200/E1400: Supported Interfaces:
       Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos,
       sercos over EtherCAT, CANopen over EtherCAT, LinUDP, LinUDPV2, PROFINET, DS402 over EtherCAT
    B8050 / MB8050 ML (MC-Link) Supported Interfaces:
       PowerLink, EtherCAT, EthernetIP, sercos, PROFINET
    A1100: Supported Interfaces:
     CANopen
    C1100: Supported Interfaces:
       CANopen, EtherCAT, PROFINET, DS402 over EtherCAT, PROFIdrive
    C1200: Supported Interfaces:
       EtherCAT, EthernetIP, PowerLink, LinUDPV2, PROFINET, sercos, sercos over EtherCAT,
       DS402 over EtherCAT, PROFIdrive

Features:

- POWERLINK SG6: CN asynchronous reaction time optimized from ~100us down to ~1us. (F778)

- EC02 ADP Files added. (F781)

- EC02 running with C1100, C1200, E1200. (F782)

Fixed Bugs:

- EC:SG5 and SG6: NC –In/Out fixed with new XML. (B690).

- B8050-ML-IP: RT Communication did not work with Build 6.4. Fixed. (B691)

- SG7 DiagLivePar was not called in IM 6.5. (B692)

- SG7 Hall cross coupling compensation fixed. (B693)

Build 201600201-IM

LinMot-Talk 6   Version 6.5   Build 20160201-IM
B1100/E1100 Series Firmware: Version 3.22 Build 20150416
E1200 Series Firmware: Version 6.5   Build 20160201-IM
A1100/C1100 Series Firmware: Version 6.5   Build 20160201-IM
C1200/C1400/E1400 Series Firmware: Version 6.5   Build 20160201-IM

   E1200/E1400: Supported Interfaces:
     Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos,
     sercos over EtherCAT, CANopen over EtherCAT, LinUDP, LinUDPV2, PROFINET, DS402 over EtherCAT
   B8050 / MB8050 ML (MC-Link) Supported Interfaces:
     PowerLink, EtherCAT, EthernetIP, sercos, PROFINET
   A1100: Supported Interfaces:
    CANopen
   C1100: Supported Interfaces:
     CANopen, EtherCAT, PROFINET, DS402 over EtherCAT, PROFIdrive
   C1200: Supported Interfaces:
     EtherCAT, EthernetIP, PowerLink, LinUDPV2, PROFINET, sercos, sercos over EtherCAT,
     DS402 over EtherCAT, PROFIdrive

Features:

- Sercos SG5/6: Procedure Function Command S-0-0262 Load defaults implemented. (F766)

- EC SoE expanding PDO data with any UPID of 16 or 32 bit data size. (F767)

- MC-Tree: Captions for UPID 0x11DB changed from "Positive" to "Cosine before Sine" and from "Negative" to "Sine before Cosine". (F769)

- SG7 Support Sin/Cos Motor position with IFFT 2 Arctan table. (F770).

- SG6: CFG ETH with PN and PD. (F772)

- SG6: SSI supported during operation (additional to position recovery) for linear motors. (F774)

Fixed Bugs:

- CANopen SG5/6: If a SDO-Abort Transfer request message is sent from the PLC, the drive does not respond any-more to further SDO Requests. Fixed (B688).

- MC-SW SG5/6: 32 bit overflow with sine and bestehorn motions fixed. (B689)

Build 20160112-IM

LinMot-Talk 6   Version 6.5   Build 20160112-IM
B1100/E1100 Series Firmware: Version 3.22 Build 20150416
E1200 Series Firmware: Version 6.5   Build 20160112-IM
A1100/C1100 Series Firmware: Version 6.5   Build 20160112-IM
C1200/C1400/E1400 Series Firmware: Version 6.5   Build 20160112-IM

   E1200/E1400: Supported Interfaces:
     Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos,
     sercos over EtherCAT, CANopen over EtherCAT, LinUDP, LinUDPV2, PROFINET, DS402 over EtherCAT
   B8050 / MB8050 ML (MC-Link) Supported Interfaces:
     PowerLink, EtherCAT, EthernetIP, sercos, PROFINET
   A1100: Supported Interfaces:
    CANopen
   C1100: Supported Interfaces:
     CANopen, EtherCAT, PROFINET, DS402 over EtherCAT, PROFIdrive
   C1200: Supported Interfaces:
     EtherCAT, EthernetIP, PowerLink, LinUDPV2, PROFINET, sercos, sercos over EtherCAT,
     DS402 over EtherCAT, PROFIdrive

Features:

- ProfiDrive: Velocity watch added. Result is stored in Warn Word bit 11. (F757)

- ProfiDrive: Torque limit positive, negative: Two limits are added (the older limit still exist). The torque watch works with the lower of the two values. (F759)

- EC02: On power on, the motor position is zero plus the actual angle. The angle offset is stored on the motor. (F761)

Fixed Bugs:

- SG7: A1100/C1100: Curve Service: Write Curves with Ids 9..16, 25..32 etc. did not work. Fixed (B677)

- SG6 Sercos: Problem of variable mislocation. Can lead to other problems. Fixed (B678)

- C1150-EC: As soon as PDO Mapping „NC Inputs" and „NC Outputs" are selected on the master, the drive switches to „Error Pre-Operational State". Fixed (B679)
- SG5/SG6: Installation over Config ETHERNET: When the default IP Address is selected, it was not possible to install on a second drive. Fixed (B680).
- LinMot-Talk: When the first user defined variable is deleted and then double click on the next variable, an address error is generated. Fixed (B681)
- SERCOS: Data exchange when more than one telegram is sent (if number of bus nodes is very high) may be faulty. Fixed. (B683)
- MC-SW: SG7: Bugfix reading differential hall switch W input. Was mapped to single ended hall switch W input. Fixed. (B684)
- SG5/6 Sercos: Only AT0/MDT0 telegrams work. If Data is placed in AT1-3/MDT1-3 the drive is unable to get to CP4. Fixed (B685)
- SG5/6 Sercos: Timing optimised in RT Data handling. Handling the data too late can lead to corrupted telgrams (alignement errors) with image version 2.8 of the sercon100. Fixed (B686)
- SG5/6 Sercos: Ring recovery can lead to missed telegrams. Fixed (B687)