Release Information LinMot-Talk 6

Build 20140915

LinMot-Talk 6	Version 6.2	Build 20140915
B1100/E1100 Series Firmware:	Version 3.21	Build 20140915
E1200/E1400 Series Firmware:	Version 6.2	Build 20140915
A1100/C1100 Series Firmware:	Version 6.2	Build 20140915
C1200 Series Firmware:	Version 6.2	Build 20140915

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

Features:

- Oscilloscope SG7: Trigger time will be saved automatically with oscilloscope shot. (F693)

- Talk-Protocol SG5/6: Multiple UPIDs read command added. The Control panel can be read consistently and the remote login can be done much faster. (F694)

Fixed Bugs:

- OS E1200: UUID: Only the first 4 bytes have been transmitted in the response. Fixed. (B602)

- OS SG7: OSCI service command 0x84 0x42 (get sampled UPIDs) did not work. Fixed. (B603)

- PN: SG5: FW installation (PN serial flash) was instable. Fixed. (B605)

- CANOpen SG7: Only the lower 16Bit of the Demand current in TXPDO2 are transmitted. Fixed. (B608)

- B1100/B1150: Free CPU Capacity is wrong. Fixed. (B609)

Build 20140812-IM

LinMot-Talk 6	Version 6.2	Build 20140812-IM
B1100/E1100 Series Firmware:	Version 3.21	Build 20140812-IM
E1200/E1400 Series Firmware:	Version 6.2	Build 20140812-IM
A1100/C1100 Series Firmware:	Version 6.2	Build 20140812-IM
C1200 Series Firmware:	Version 6.2	Build 20140812-IM

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

Features:

- Oscilloscope SG5/SG6: OsciGetRunState command expanded to incorporate system time when the trigger occurred. (F689)

- B1100: OS: SROM routines speed optimized and saving remanent memory improved.(F690)

- C1200: MC-SW: Position indexing Run Mode in Tree. (F692)

Fixed Bugs:

- C1100, C1200: Motor Wizard LinRot-Module 52x60 with 37x120 motor sets the force constante equal zero. Other Parameters have to be checked. (B449)

- B8050 EthernetIP: Status Error LED was always on. Fixed (B597)

- CANOpen SG7: Timebase for NodeGuarding and Heartbeat incorrect. If for example the produced Heartbeat is configured for 300ms it gets sent only every 750ms. (B598)

- CANOpen SG5/SG7: Togglebit in NodeGuarding message is not updated correctly, it does not toggle with every message. (B599)

- OS C1100: if the function ”Get RAM Value of UPID” is called via mon_trap, a trap calss B occurs. This happens i.e. with certain command table functions that read RAM values via UPIDs. Fixed (B600)

- SG5 and SG6 FF Spring compensation was not working. Fixed. (B601)

- C1200: OS: Start up could be instable. Fixed. (B603)

Build 20140718-IM

LinMot-Talk 6	Version 6.2	Build 20140718-IM
B1100/E1100 Series Firmware:	Version 3.21	Build 20140718-IM
E1200/E1400 Series Firmware:	Version 6.2	Build 20140718-IM
A1100/C1100 Series Firmware:	Version 6.2	Build 20140718-IM
C1200 Series Firmware:	Version 6.2	Build 20140718-IM

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

Features:

- CANOpen B1100/E1100: Added Heartbeat related objects (0x1016, 0x1017) to the EDS-Files. (F676)

- Config Ethernet over IP added. (F677)

- MCSW E1200/E1400: Added Motion Interface Variables as 16Bit values to make E1100 compatible mappings in CANOpen possible. (F679)

Fixed Bugs:

- C1200: Oscillosope: The sampling time was not correct. Dependant on the running tasks and the CPU capacity the sampling can be disturbed. (B586)

- C1150-EC: SoE: When SoE is installed on a C1150-EC drive, it will be still recognized as a Standard EtherCAT Drive from TwinCAT. Fixed. (B588)

- CT Service SG5/SG6/SG7: Get CT data command of entry 255 does not work. The entry can not be read, the return value always indicates that the reading of the data block was already finished. (B590)

- CANOpen SG5: When using the “Reset Communication” NMT command, the error “X1: Power over current” can be triggered on occasion. (B591)

- EtherCAT SG7: In combination with TwinCAT 3 erronous communication can be observed (wrong or missing RT data etc.) (B592)

- B1100: “Start Encoder Cam From Actual Count With Delay Counts (064xh)” results in a trap. Fixed (B593)

Build 20140509

LinMot-Talk 6	Version 6.1	Build 20140509
B1100/E1100 Series Firmware:	Version 3.20	Build 20140509
E1200/E1400 Series Firmware:	Version 6.1	Build 20140509
A1100/C1100 Series Firmware:	Version 6.1	Build 20140509
C1200 Series Firmware:	Version 6.1	Build 20140509

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

Features:

- A1100/C1100 OS: Command to clear remanent parameter sections implemented (PSRV 0x89, 0x06, 2-4) and added to installscript. (F675).

Fixed Bugs:

- CANOpen SG5/7: Configuration of bit variables and byte variables on odd addresses in TPDOs did not work. Fixed (B573)

- LinUDP (C1200) when connect the RT-Cable, the firmware stopped because of an illegal bus access. Fixed (B574)

- Sercos: Writing of a UPID via the SVC-channel with an integrated function of a Bosch-Rexroth-PLC did not work. Fixed (B575)

- CANOpen SG5/7: Too many PDOs are indicated when a PLC reads the corresponding objects of the dictionary -> Error Bit in answer of objects that didn't exist were not set. Fixed (B577)

- Config Module SG5 IP/SC/PL: After stopping and restarting the MCSW, the fieldbus communication gets lost because the cyclic realtime data isn't updated anymore. Fixed (B578)

- C1250-IP: Get modified UPID list: The drive doesn't return the last UPID. Fixed. (B579).

- LinMot-Talk: Adding a user variable by UPID will display two variables. Fixed (B580).

- Config Module SG6 SC/PL: Config Module did not work. Drive SW crashes on execution of a config module command. Fixed (B581)

- C1250: MC-SW: 3 Phase motors: Back EMF was miscalculated. Fixed. (B586).

Build 20140326-IM

LinMot-Talk 6	Version 6.1	Build 20140326-IM
B1100/E1100 Series Firmware:	Version 3.20	Build 20140326-IM
E1200/E1400 Series Firmware:	Version 6.1	Build 20140326-IM
A1100/C1100 Series Firmware:	Version 6.1	Build 20140326-IM
C1200 Series Firmware:	Version 6.1	Build 20140326-IM

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

Features:

- C11x0-1S: Now supported by LinMot-Talk . (F673)

Fixed Bugs:

- Sercos: Timing correction between primary and secondary telegram war wrong. Fixed (B451).

- A/C1100: OS: Parameter Service: Write RAM has trapped when called by the interface. Fixed (B563).

- IP-Interface: Sometimes there occurred a communication problem between PLC and drives when a new program was downloaded to the PLC and several drives are connected to the network. Fixed (B564).

- B8050-IP: Lost of communication. (internal address/data bus timing changed). Fixed (B565).

- A/C1100: OS: Oscilloscope service: if uint8 / sint8 variables are configured as a trigger, the trigger did not work. Fixed (B566).

- A/C1100: OS: Oscilloscope service: sampling of values with odd addresses did not work. Fixed (B567).

- A/C1100: OS: Oscilloscope service: sampling of uint8 / sint8 variables did not work correctly → only every second read out value is correct. Fixed (B568).

- B1100: Motor comminication is not established reliably. The error “No Motor Communication” can occur. Fixed (B569).

- A/C11x0: Cam curves can be selected in the curve-editor even though no master encoder functionality is available (B571)

- A/C1100: OS: Oscilloscope service: “Greater than” trigger also triggers on condition “equal” by mistake. Fixed (B572)

Build 20140227-IM

LinMot-Talk 6	Version 6.1	Build 20140227-IM
B1100/E1100 Series Firmware:	Version 3.20	Build 20140227-IM
E1200/E1400 Series Firmware:	Version 6.1	Build 20140227-IM
A1100/C1100 Series Firmware:	Version 6.1	Build 20140227-IM
C1200 Series Firmware:	Version 6.1	Build 20140227-IM

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

Features:

- C1250: sercos interface added. (F668)
- C1250: PowerLink interface added. (F669)

Fixed Bugs:

- Sinoide-ApplA1100/C1100: The scaling of the Bestehorn demand position was wrong. Fixed. (B550)
- A lot of minor bug fixes.

Build 20140211-IM

LinMot-Talk 6	Version 6.0	Build 20140211-IM
B1100/E1100 Series Firmware:	Version 3.19	Build 20140211-IM
E1200/E1400 Series Firmware:	Version 6.0	Build 20140211-IM
A1100/C1100 Series Firmware:	Version 6.0	Build 20140211-IM
C1200 Series Firmware:	Version 6.0	Build 20140211-IM

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

Features:
- B8050-SC: SDDML file created for device, so it can be configured in a PLC. (F666)

Fixed Bugs:

- Parameters : Unit scale values are wrong, because the IEEE float to integer conversion was wrong. Fixed. (T015).
- A lot of minor bug fixes.

Build 20140120-IM

LinMot-Talk 6	Version 6.0	Build 20140120-IM
B1100/E1100 Series Firmware:	Version 3.19	Build 20140120-IM
E1200/E1400 Series Firmware:	Version 6.0	Build 20140120-IM
A1100/C1100 Series Firmware:	Version 6.0	Build 20140120-IM
C1200 Series Firmware:	Version 6.0	Build 20140120-IM

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

Features:
- LinMot-Talk: Control Panel / Monitoring: User selectable variables, which are monitored, added. (F329)
- OS: C1100/C1200/E1200 change state machine, so wait2seconds state is the first one. (F658)
- E1400-SC-QN-0S/1S: SDDML files for PLCs to work with 0S / 1S drive types created. (F662)
- C1200: Run mode ‘‘Position Indexing’’ added in tree. (F665)

Fixed Bugs:
- E1400: PnP: When drive parameters are on default, and a PS10x70 motor (with PnP functionality) is plugged, “Cfg Err: No Motor Defined” will occur. Fixed (B441)
- C1100-CO: Problem with user stacks in FW. Fixed. (B444)

Build 20131216

LinMot-Talk 6 Version 6.0 Build 20131216
B1100/E1100 Series Firmware: Version 3.19 Build 20131216
E1200/E1400 Series Firmware: Version 6.0 Build 20131216
A1100/C1100 Series Firmware: Version 6.0 Build 20131216
C1200 Series Firmware: Version 6.0 Build 20131216

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

Features:
- A1100: OS: Default parameters by DIP-Switch added. (F655)
- A1100 / C1100: OS: Default parameters by instance via Talk-Command added. (F656)
- A1100/C1100: OS: Stop on startup added. (F657)
- EthernetIP: EDS-File added. (F660)

Fixed Bugs:
- LinUDP: Telegram size is sometimes below 64 bytes. Fixed to minimal size of 64 Bytes. (B394)
- Install-Script: E1200 / E1400: Installation does not work, if installation is done over Ethernet in a network without a DHCP server. Fixed. (B437)

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Build 20131122-IM

LinMot-Talk 6	Version 6.0 Build 20131122-IM
B1100/E1100 Series Firmware:	Version 3.18 Build 20131122-IM
E1200/E1400 Series Firmware:	Version 6.0 Build 20131122-IM
A1100/C1100 Series Firmware:	Version 6.0 Build 20131122-IM
C1200 Series Firmware:	Version 6.0 Build 20131122-IM

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

Features:
- LinMot-Talk: When saving a configuration, operating time will be saved too. (F608)
- -Talk: Saving an osci shot the parameters for serial number, device type, article number and firmware are saved too. Additional parameters can be defined by the user. (F609)
- MS-SW: UPID $1591 "Cycle Monitoring" changeable for service. (F642)
- EC-Intf: Move motor to a safe position if an error occurs (for example when communication lost.). (F645)
- OS A1100 / C1100: Parameter to delay the FW-Startup for up to 65s added. (F653)

Fixed Bugs:
- SG5 LinRS: Parity (odd or even) did not work correctly. Fixed. (B371).
- SG5 MC-SW: Demand position keeps running while homing if emergency stop (eg. SVE=0) occurs. Fixed. (B377)
- SG5 PN: Interface has some unpredictable behaviour with VAI commands. Fixed. (B423).
- E1250-EC: NC In-/Outputs did not work. Fixed. (B425).
- SC: (E1250, B8050): LinMot streaming does not work (problem with time stamp). Fixed. (B426)
- MC: E1200 & B1100: on homing with „Index on X13 And Limit Switch Negative“, the evaluation of the index is too early. (The Limit Switch is still active). Fixed. (B427 & B428)
- CFG ETH: On parallel communication over CFG ETH and Powerlink, the Powerlink generates often time outs. Fixed. (B433)
- E1250-IP-/LinUDP: Count Nibble in State Var is set to 0 after the command execution. (Can be watched in the override mode in the control panel.) Fixed. (B436)

Release Information LinMot-Talk 5

Build 20130910-IM

LinMot-Talk 5	Version 5.1 Build 20130910-IM
B1100/E1100 Series Firmware:	Version 3.18 Build 20130910-IM
E1200/E1400 Series Firmware:	Version 5.1 Build 20130910-IM
A1100/C1100 Series Firmware:	Version 5.1 Build 20130910-IM
C1200 Series Firmware:	Version 5.1 Build 20130910-IM

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

Beta-Build 20130626

LinMot-Talk 5	Version 5.1 Beta 20130626
B1100/E1100 Series Firmware:	Version 3.18 Beta 20130626
E1200/E1400 Series Firmware:	Version 5.1 Beta 20130626
A1100/C1100 Series Firmware:	Version 5.1 Beta 20130626

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

Features:
- A1100 Drives with CANopen interface added. (F637)
- C1100 Drives with CANopen and EtherCAT interface added. (F638)

Fixed Bugs:
- M8050-PN and other PN-drives: RAM error is reported on startup. Fixed (B412).
- B1100 / C1100 OS: OSCI: When MC-SW is stopped, the time base for the osci shots was wrong (4 times the value). Fixed. (B417)
- E1400: MC-SW: Overcurrent detection when disabled was wrong. Fiexed (B418).

Beta-Build 20130506

LinMot-Talk 5 Version 5.1 Beta 20130506
B1100/E1100 Series Firmware: Version 3.18 Beta 20130506
E1200/E1400 Series Firmware: Version 5.1 Beta 20130506
E1200/E1400: Supported Interfaces:
Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos,
sercos over EtherCAT, CANopen over EtherCAT, LinUDP, PROFINET
B8050 / MB8050 ML (MC-Link) Supported Interfaces:
PowerLink, EtherCAT, EthernetIP, sercos, PROFINET

Features:
- B8050: PROFINET interface added. (F629)
- SG5: MC-SW: New triggered cam curve run mode on rise curve on encoder Z added. (F636)

Fixed Bugs:
- E1250: RAM error occurs if controller is warm. Timing fixed. (B403).
- SG5 Sercos: Homing procedure (IDN148) did not work correctly. PLC did not update the Position command value, so the motor can "jump" after homing command is executed. Fixed. (B408)
- SG5. OS: Options in DHCP messages which the drive did not properly evaluate, could lead to a firmware crash. Fixed (B409)
- sercos with FSP-IO profile E1xx0: MC streaming commands did not work because internal slave generated time stamp was not updated. Fixed. (B410)
- SG5: MC-SW: Board temp scaling was too low. Fixed. (B413)
- SG5: MC-SW: AB/ABZ encoders: overflow of continuous counter was not handled correctly. Fixed. (B414)
- E1100/B1100 MC-SW: Position Recovery: Home position recovery addition bug fixed. (B415).
- E1100/B1100 MC-SW: Linearization improved. More stable algorithm when noisy sin cos or bad controller settings. Fixed. (B416)

Beta-Build 20130130

LinMot-Talk 5 Version 5.1 Beta 20130130
B1100/E1100 Series Firmware: Version 3.18 Beta 20130130
E1200/E1400 Series Firmware: Version 5.1 Beta 20130130
E1200/E1400: Supported Interfaces:
Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos,
sercos over EtherCAT, CANopen over EtherCAT, LinUDP, PROFINET
B8050 / MB8050 ML (MC-Link) Supported Interfaces:
PowerLink, EtherCAT, EthernetIP, sercos, PROFINET

Features
- OS SG5: Override MAD-ID parameter added. So a controller can be replaced in the field. The parameter is inactive by default. (F626).
- LinMot-Talk: Osci: Under advanced user, selection parameters (EnumDIr, CapDir) now can also be monitored. (F631)

Fixed Bugs:
- LinMot-Talk: When several firmware installation instances are running in parallel, not all "Package Installer" windows will be closed at the end. Closing the windows manually will show the error message "A script is still running…" . Fixed. (B329)
- LinMot-Talk: Motor wizard: Statoren 37S are called -N not -C. The stator length is 6mm too long. The PS01-37Sx60 is not of Type F (Wizard). Motor 37Sx120F has wrong force constant, must be 10.2N/A. Fixed (B393).
- Sercos ML: WDT happens in CAN HW init routine, then the systems does not even start up. Fixed. (B398)
- SG3: OS: System traps when CAN receive buffer gets full. Fixed. (B400)
- SG5 OS: Reading ROM value from UPID 0x0615 (RT Module) system traps. Fixed. (B400a).
- LinMot-Talk: Osci: Parameters under "Advanced User" have not been saved with a configuration. Fixed. (B404).
- LinMotTalk: Osci: When adding a parameter from "Advanced User" sometimes an access violation is reported. Fixed. (B405).
- LinMotTalk: Osci: UPID format for advanced user parameters was not correct. Fixed. (B406)

Build 20121010

LinMot-Talk 5 Version 5.1 Build 20121010
B1100/E1100 Series Firmware: Version 3.18 Build 20121010
E1200/E1400 Series Firmware: Version 5.1 Build 20121010
E1200/E1400: Supported Interfaces:
Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos,
sercos over EtherCAT, CANopen over EtherCAT, LinUDP
B8050 ML (MC-Link) Supported Interfaces:
PowerLink, EtherCAT, EthernetIP, sercos

Features:
- SG5: MC-SW: If Control word bit 0 or 1 is reset during homing, new the setpoint generation is also finished. (F613)
- E1100/B1100: MC-SW: The linearization has been made more stable. Especially for noisy sin/cos signals or bad controller settings. (F614)
- LinMot-Talk: OSCI: A list of parameters can be configured, which will be also printed. (F616)
- E1400 series with safety function 0S and 1S added. (F617)
- CANopen SG5: Triggering of sending TPDOs through Remote Transmission Frames is now possible in all modes that support this behaviour. Transmission Mode 253 (Asynchronous RTR only) added. (F618)
- SG5 CANOpen: Transmission Modes 2-240 added. (F623)

Fixed Bugs:
- SG5 CANOpen: Inhibit Time of TPDO's was one hundred times bigger than the configured value. Fixed. (B378)
- SG4 CANOpen: Event Timer of TPDO's starts AFTER the Inhibit Time has passed -> Total Event Time is the sum of the configured Event Time and Inhibit Time. Both Timers have to start at the same time directly after a TPDO is sent. Fixed (B379).
- SG5 CANOpen: Motion Cmd Slave Headers are not evaluated -> new MC-Command gets executed if only master MC Header is changed. All Slave Headers have to change also before a new command gets executed. Fixed. (B380)
- SG5 CANOpen: resetting the drive via 0x2000 0xb can cause error frames on the bus. Fixed. (B381)
- SG5 CANOpen: NMT ResetNode command does not completely reset the drive. Fixed. (B382)
- E1100/B1100: MC-SW: In position recovery mode the home position has been processed wrongly. Fixed. (B384).
- SG5: MC-SW: Status word bits "Special Motion Active" and "Motion Active" were not released if Homing was aborted before finished. Fixed (B386)
- SG5: MC-SW: Digital IO display value for inverted outputs was wrong in control panel. Fixed (B387).
- SG5: MC-SW: Event Handler Initialization, Rise and Fall Trigger functions are now preset with no functionality. Bug fixed. (B388)
- LinUDP: The dummy word before MC-Intf is eliminated, so it is consistent with other interfaces and documentation. (B389)
- SG5: Intf-DP: Streaming did not work. Fixed. (B390)
- SG5: Intf-DP: Save to Flash did not work. Fixed. (B391)
- SG5: OS: Get modified UPID list can have the last UPID missing, if the two last UPID are consecutive. Fixed (B392)

Build 20120710

LinMot-Talk 5 Version 5.0 Build 20120710
B1100/E1100 Series Firmware: Version 3.17 Build 20120710
E1200/E1400 Series Firmware: Version 5.0 Build 20120710
E1200/E1400: Supported Interfaces:
Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos,
sercos over EtherCAT, CANopen over EtherCAT, LinUDP
B8050 ML (MC-Link) Supported Interfaces:
PowerLink, EtherCAT, EthernetIP, sercos

Features:
- SG5: MC-SW: Time Curves: Variable "Actual Sample Point Number" added. (F581)
- MC-SW: SG5: Ctrl Word: Special Mode added to X4 IO mapping. (F583)
- SG5: LinUDP interface added. (F586)
- SG5: MC-SW: New Motion Command "VAI Increment Act Pos And Reset Force Control Set I (387xh)" added. (F587).
- SG5: MC-SW: Ctrl Word: Special Mode added to X4 IO mapping. (F590).

Fixed Bugs:
- LinMot-Talk: Login All did not work. Fixed. (B351)
- SG5, MC-SW: Bugfix Continous Curve; live changes in curve time didn't change the demand velocity scale. Fixed (B352)
- SG5, MC-SW: Tree IO state variables shows now the value after the force mask (compatibility E1100). (B354)
- E1100: MC-SW: Bleeder is not turned off, when FW is stopped. Fixed. (B356)
- B1100: CO: Controller may report a phase voltage error due to wrong A/D conversions. Fixed. (B357)
- SG5: MC-SW: Setting and resetting of the Event Handler Active bit in the Status Word was wrong in many cases. Fixed. (B359)
- E1200: MC-SW: Workaround because of HW Bug, hall switches on X3 are evaluated analog . Relevant for Maxon motors. (B360)
- sercos: Save curves/CT to flash and default interface did not work via config module. Fixed (B362)
- SG5 Config Module: Command 0x33 (default ROM values of interface parameters) and 0x34 (default rom values of application) did not work. Fixed. (B363).
- SG5: MC-SW: Range indicators with int16 variables negative values have not been supported. Fixed (B364).
- SG5: MC-SW: Curve offset calculation with Commands (042xh, 043xh, 04Exh and 04Fxh) was not correct. Fixed. (B365).
- SG5: MC-SW: Current reduction with Brake and Abort when leaving state "Aborting" with "Switch On" etc. was not correct. Fixed (B366).

Release Information LinMot-Talk 4

Build 20120130

LinMot-Talk 4: Version 4.4 Build 20120130
B1100/E1100 Series Firmware: Version 3.16 Build 20120130
E1200 Series Firmware: Version 4.4 Build 20120130
E1200: Supported Interfaces:
Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos, sercos over EtherCAT, CANopen over EtherCAT
B8050 ML (MC-Link) Supported Interfaces:
PowerLink, EtherCAT, EthernetIP, sercos

Features:
- LinMot-Talk: Switch user level without logout/login added. Works online and offline. (F492)
- B1100 and B1150ML Revision E controllers supported. (F560)
- LinMot-Talk: Motor Wizard improved with pictures for the right direction/cable situation (F561).
- SG5: OS: Depending on the topology, a controller could be inaccessible from configuration SW. To improve the situation the default gateway is now checked every minute (F568)
- E1200 / E1400: OS/MCSW: Check if Bleeder is turned off when MC-SW is stopped or when supply voltage drop down is detected. (F571)
- LinMot-Talk: CAN bus scanning: ID=0 will be scanned as well. (F572)
- SG5: CoE (CANopen over EtherCAT) added. Included in EtherCAT interface. (F573)
- SG5: SoE (sercos over EtherCAT) added. (F574)
- B1100 & SG5, set controller temperature warn level down to 65°C. (F575)
- LinMot-Talk: Motor-Wizard: Homing modes for linear part of linear/rotative motors completed. (F576)

Fixed Bugs:

- E1200: OSCI: When sampling start delay time becomes higher (> 0x8000) the time axis will be displayed wrong. Fixed. (B315)
- LinMot-Talk: CT: E1200: Commands using the switching levels of the analog input X4.4 are scaled wrong. Fixed. (B335).
- OS4: Config ETH sometimes stops communication. Even ARP or Ping request are not responded. Fixed (B337)
- SG5 OS: Default Gateway MAC ID was handled incorrectly. Fixed. (B338)
- E1100/B1100: MC-SW: Status Word Motion active bit in continuous curve run mode was not set. Fixed. (B339)
- SG5: MC-SW: Reset setpoint generation when entering in state operation enabled did not work. Fixed (B343).
- SG5: StateVar was not updated in state operation enabled when the error acknowledge bit was set. Fixed. (B344)
- B110/E1100-CO: Definitions in EDS files corrected that could lead to errors if the file was imported into some development environments. (B345)
- E1400: MC-SW: The calculation of the Actual Force variable is wrong. Fixed. (B349)

Build 20110901

LinMot-Talk 4: Version 4.3 Build 20110901
B1100/E1100 Series Firmware: Version 3.15 Build 20110901
E1200 Series Firmware: Version 4.3 Build 20110901
E1200: Supported Interfaces: Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos
B8050 ML (MC-Link) Supported Interfaces: PowerLink, EtherCAT, EthernetIP, sercos

Features:
- E1250: sercos interface added. (F476)
- SG5: MC-SW: Commutation init mode “Abs Pos” added. (F559)

Fixed Bugs:
- E1200: OS: Get Modified UPID List: The last reported parameter were always the parameter with the highest UPID, regardless if it is modified or not. If it is modified, it will be even reported twice. Fixed. (B289)
- LinMot-Talk: Save configuration of any B8050ML system did not generate a file. Fixed. (B320)
- LinMot-Talk: Saving complete pvl-List did not save the unchanged string parameters. Fixed. (B321)
- B100/E1100: CO: 32 bit parameters are only transmitted with 16 bits. The upper 16 bits are missing. Fixed. (B322)
- sercos: Parameter names of IDNs added for the PLC to read. (B323)
- sercos: IDN List (S-0-0017) sorted correctly. (B324)
- sercos: Errors while reading string parameters (i.e. S-0-0095) fixed. (B325)
- SG5: MC-SW: Reset force Ctrl mode (commands 381xh and 386xh) bug fixed. (B326)
- SG5: DP: Stop start of MC and Interface-SW fixed. (B327).
- SG5: DP: Write curves and CT to flash bug fixed. (B328)
- E1200 MC: When switching from “Current Command Mode (390xh)" back to "Change to Position Controlled mode (39Fxh)” the motor’s demand position may jump, because the demand position generator finishes in the background. Fixed. (B330)
- E1100/B1100 MC-SW: The evaluation of the absolute position for the rotary part in linear rotary motors can be wrong. Fixed (B336).

Build 20110704

LinMot-Talk 4: Version 4.2 Build 20110704
B1100/E1100 Series Firmware: Version 3.14 Build 20110704
E1200 Series Firmware: Version 4.2 Build 20110704
E1200: Supported Interfaces: Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP, sercos
B8000 ML (MC-Link) Supported Interfaces: PowerLink, EtherCAT, EthernetIP

Features:
- E1200: MC-SW: F-Mode without encoder simulation added. (F476)
- LinMot-Talk: Firmware installation over ETHERNET does only work if correct login and password have given as authentication. Controller can be still defaulted by hex switches. (F493)
- B1100: CANopen: T-PDOs will be sent every “Inhibit Time”, even if no changes have occurred in the mapped data. Fixed (F494).
- E1200: MC-SW: Gantry-Mode added. (F506).
- E1200: MC-SW: When switching to the state8, the run mode will not be reloaded, if the Homed, Jog Move or Goto Initial Pos. bit is set. (F507)
- E1200: MC-SW: Analog Current Command Mode in Special Mode added. (F508)
- E1100/B1100: MC-SW: New Motion Cmd VAI 16 Bit Dec=Acc Go To Abs Pos (0D1xh) added. (F513)
- E1200: MC-SW: Start Sine & Bestehorn move with Rise/Fall trigger added. (F520)
- B1100/E1100: MC-SW: Rotative Motors are supported with absolute encoders. (F521)
- E1250-EC: ML available (ML1 on ME CAN, ML2 on CMD CAN)
- E1200: OS: Oscilloscope: Trigger on floating point values added. (F529)
- E1100/B1100: Motion Cmd: "Time Curve To Pos With Default Speed (042xh)" and "Time Curve To Pos With Adjustable Time (043xh)" increased precision curve amplitude scaling. (F534)
- E1100/E1200: MC: Current compensation for sine/cosine feedback signals improved. The P/D values can now be set higher. (F535)
- E1200: MC-SW: AB encoder simulation on X13 supported. (F546)
- MC-SW: Command "VAI Go To Pos From Act Pos And Reset Force Control Set I (386xh)" added to avoid force jumps. (F547)
- B1100: MC-SW: Status word bit 12 "Fatal Error" can be mapped to outputs. (F548).

Fixed Bugs:
- LinMot-Talk: Motor Wizard: units are missing in ext encoder step for edge distance. Fixed (B294)
- E1200: Command Module: CTGetPresenceList returns the inverted flags. Fixed. (B295)
- B1100: MC-SW: The command Predef VAI 16 Bit Go To Pos After Actual Command (0A8xh) did not work correctly. Fixed. (B295a)
- LinMot-Talk 4: Logging out does not close all communication channels. Behaviour is different when logout/login than from close / open LinMot-Talk. Fixed. (B296)
- E1200: MC-SW: Bugfix Motion Commad "Encoder CAM 1/2 Define Curve from Act Pos (111xh/112xh) CAM Start-Offset calculation wrong in some cases. Fixed. (B298)
- B1100: MC-SW: Bugfix encoder simulation startup behaviour. (B299)
- E1100/B1100: MC-SW: Bugfix Motion Command (028xh, 0A8xh, 0B8xh, 0C8xh) incorrect velocity and acceleartion settings. (B300)
- E1200: MC: When using the command "Encoder Cam 1 Define Curve With Default Parameters" with the parameter "Curve Start Count" the motor does not really stand still until the start counts are reached. The demand speed and demand acceleration are not equal to zero when waiting. They are set to the value corresponding to the curve start. Fixed. (B301)
- E1200: MC-SW: The commands 015xh & 016xh (VAI Increment Act Pos...) did not work correctly. The demand position instead of the actual position has been taken as start value. Fixed. (B302)
- E1100: MC-SW: At the end of „Goto Pos With Curve” motion, it can happen that the motor jumps to the target position. Corrected. (B303)
- E1200: MC-SW: Range indicator wrong with signed types. Fixed (B308)
- E1200: MC-SW: Capture inhibit evaluation bug fixed. Time was not correct. (B311)

Build 20101126

LinMot-Talk 4: Version 4.1 Build 20101126
B1100/E1100 Series Firmware: Version 3.13 Build 20101126
E1200 Series Firmware: Version 4.1 Build 20101126
E1200: Supported Interfaces: Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen, ProfibusDP
B8000 ML (MC-Link) Supported Interfaces: PowerLink, EtherCAT

Features:
- B8000ML: MC-Link. Consists of a B8000ML (bus module) and up to 8 B1100ML (axle module). (F417)
- E1200/B8000: OS: Oscilloscope: Expanded to 8 data channels. (F437)
- Interfaces on E1100 controllers: The following controllers support the listed interfaces: (F440)
  E1100-DN: DN, CO and RS
  E1100-CO: CO and RS
  E1100-RS: RS
- B1100/E1100: CO: Bit-Variables can be mapped in PDO-Communication (F441)
- POWERLINK: LinMot FieldBus Configuration Interface through process data supported (F442)
- B1100: MC: CAM start Enable Mapped to inputs (F445)
- E1200: MC: Motion profiles Bestehorn and sine added. (F448)
- B1100/E1100: CO: Bit and Byte parameters can be mapped to PDOs. Transmission types 1-240 for TxPDOs supported. (F451)
- B1100 CAM start Enable Mapped to inputs (F445)
- E1200: MC: New Motion Command 005yh Select Postion Controller Set added (F457)
- E1200: MC: New Motion Command 026yh IF CAM COunts Less Than added (F458)
- E1200: MC: Encoder counter mode supported. (F459)
- B1100, E1100, E1200: MC: Support of R01 temp sens calculated temp model (F460)
- B1100: MC: CAM start Enable Mapped to inputs (F463)
- OS: Trap variables visible with service login. (F465)
- E1200: Ethernet, Activity LEDs configured for each port separately.(F466)
- E1100: MC: New Jog move mode Speed limited with limit switches. (F468)
- MC: Variables for Short Time Overload Warn & Error temp (UPIDs 0x1BD5 and 0x1BD6) added. (F469)
- LinMot-Talk: Motor wizard supports SSC motors with all standard options.(F472)
- B1100: MC: As the input current on the B1100HC/XC controllers is quite noisy, the limit for the Power On Phase Test (UPID E268) is set to the double value, because the input current scaling has also changed. The input current is visible as service. (F478).

Fixed Bugs:
- B1100: MC: Input Current displayed in tree is wrong. For HC and XC controllers it is half the value since 3.12, for LC controllers it is 2/3 of the value since ever. The values are correct now, the value for “Phase Test Max Incurrent” is the same for all controllers. (B257)
- B1100/E1100: CO: Bit and Byte mapping does not work. Fixed (B259)
- B1100/E1100: CO: Data mapped to RPDO3 was written once after the transition to the operational state, even if no new data was available data has been overwritten with zeros until real data was sent. Fixed. (B261)
- B1100: MC: Encoder speed AB encoder type bug fixed. (B266)
- E1200: OS: Timer Struggle occurs on starting up. Fixed. (B269)
- E1200: OS: Remanent memory not always stored. Fixed. (B270)
- E1200: MC: I-gain is wrong by factor 5. Fixed (B271)
- B1100: MC: Encoder speed AB encoder type bug fixed. (B273)
- E1200: MC: Trap occurs when changing to run mode continuous curve and curve number is set to 0. Fixed. (B275)
- All controllers: Position recovery fixed. Was wrong since 3.11. (B276)
- LinMot-Talk: The calculation of the sample points for a cam profile with the wizard "Conveyor Synchronization" had a jump at the beginning of the deceleration phase. Fixed. (B277)
- B1100 OS: Remanent memory is not saved on power cycle. Fixed. (B278)
- B1100: OS: WDT Trap when over RS232 more than 12 bytes are received while MC SW starts up. Fixed. (B279)
- B1100: MC: Motion Command "Write X14 Intf Outputs with mask (003h)" didn't work. Fixed. (B281)
- Linmot-Talk: The printed messages have not the same order as on the screen. Fixed. (B282)
- E1200: EasySteps: Goto Abs Pos with Curr Limit takes the wrong value for the current limit. Fixed. (B283)
- E1130: DP Intf: The controller traps when the command “Set Parameter ROM values to default” (31h, 32h, 33h or 34h) is executed. Fixed. (B287)
- E1200: Get Modified UPID List: The last modified parameter reported may be reported with wrong data (data from previous parameter). Fixed. (B288)

Build 20100707

LinMot-Talk 4: Build 20100707
B1100/E1100 Series Firmware: Version 3.12 Build 20100707
E1200 Series Firmware: Version 4.0 Build 20100707
E1200: Supported Interfaces: Ethernet IP, PowerLink, EtherCAT, LinRS, CANopen

Features:
- LinMot-Talk 4: The PC configuration tool replaces the LinMot-Talk1100 V3S11. It can program and configure all controller series B1100, E1100 and E1200. (F420)
- B1100-MCSW: MC-SW: Encoder simulation frequency limit (UPID $623B) added. (F407)
- E1200: Web interface with controller status, accessible with any webbrowser by typing the controllers IP-address in the browser's address field. (F403)
- E1100-GP-XX: Interface EasyStepsX6 added. This provides EasySteps functionality on the X6 connector. (F398).
- ADF-Files: Slider definitions for PL01-27x... from 1220mm up to 2000mm length added. (F401)
- ADF-Files: PS02-23Sx80 added. (F397)
- LinMot-Talk: Improved find text function for parameter and variable section scanning. (F339)
- MC-SW: (all controllers) VAI command "VAI Dec=Acc Go To Pos With Max Curr" are now available via the command table. (F315)
- B1100: Command Write X14 Intf Outputs with Mask added. (F255)

Fixed Bugs:
- E1200: Faulty message entries are written. This could have been happen after a reboot via LinMot-Talk. Fixed. B230
- LinMot-Talk: Scanning via Ethernet, if interface has IP 0.0.0.0, then process will never be ended. Fixed. B233
- On all controllers: When pretrigger mode is selected and the sampling period is very short, the sampled data will not be displayed. Fixed. (B235, B237). LinRS: Did not work. Fixed. (B237a)
- E1200: OS: OSCI: if more than 256 sample points are selected, no error is displayed but the shot is displayed strangely. Fixed. (B238)
- B1100 OS: when starting up, the controller sends a 0x00 over the RS232. The sent "byte" is too long (about 30ms) and can also generate a stop bit error. Fixed. (B239)
- CANopen E1200: Nodeguarding was started on transition to NMT state operational, but instead should start on reception of the first node guarding message. Fixed. (B242)
- E1200: OS: Set parameter to default value by ID switches does not work correctly. Fixed. (B244)
- E1200: CANopen: Disabling of PDOs was not possible, all PDOs were always active. Fixed. (B245)
- E1200: CANopen: Legacy SYNC Watchdog: value for LSW monitored Cycle Time is divided internally by 100 which incorrectly triggered the watchdog too soon. Fixed. (B246)
- B1100: Controller PH1+ too hot error occurs randomly. (E.G. when running with LinRS, or when doing the HW checks). Fixed. (B251)
- E1100: OS: Hash Value Feature did not work. Fixed. (B252)

Release 3.11 Build 20100104

- Controller series E1200 added. Controller types E1200-GP-UC, E1250-EC-UC and E1250-PL-UC.
  Supported interfaces: CANopen, LinRS, EtherCAT and POWERLINK.
  Supported applications: EasySteps, MasterSlave in booster mode.
- PC-SW: Offline configurations can be generated for all supported controller types and the software parts running on them. (File → Create Offline). (F280)
- PC-SW: Drivers for USB-CAN and USB-RS are no more installed automatically. This prevents from undesirable behaviour. The drivers can be downloaded from the home page. (F282).
- MC-SW: Parameter added for Low Pass filter time for actual speed calculation used for the D-Gain part of the position controller (UPID 13x8h). (F313)
- OS-SW: B1100: Minimal start up voltage set to 18.8V. Consistent with MC supply voltage monitoring range. (F336)
- E1100: CO: ID-Switches for CAN-Baud Rate and MAC ID + 16. When baud rate is taken from S1, the switch positions 8..15 define the same baud rate as 0..7 but the MAC ID is added by 16. (F372)
- MC-SW: New Parameter “Max Motor Voltage” (UPID 11A7h) added. (F377)
- MC-SW: E1100/B1100: In the position indexing mode the “VAI command “ will only be setup if the position has changed -> in position keeps stable if position hasn’t changed. (F378)

- PC-SW: Curve properties from curves which have no wizard information cannot be displayed. Fixed (B168)
- PC-SW: When computer is locked or screen save has been active, the decimal separator is changed to the system default. Fixed (B211)
- MC-SW: HW checks on “Switch On” when motor supply voltage is low may result in a wrong diagnosis. Fixed. (B212)
- CO-SW B1100/ E1100: Change of process data wasn’t sent if the can message with the changed data was delayed long enough in the can-controller, so that newer process data was already available. This happens just in asynchronous mode with a very small inhibit time. (B226)
- MC-SW: Status Bit Operation Enabled on X4.8 output does not work. Fixed. (B229)

Release 3.10 Build 20090707

- CO-SW: B1100: Object Dictionary Index 1008 (Manufacturer Device Name) has responded with 0h. Fixed. (B181)
- Install Script: E1100RSXC SW not supported correctly. Fixed. (B202)
- B1100: OS: RAM values when starting up not correctly initialized. May result in ejecting the slider when starting the MC-SW and enabling the power stage. (B203).
- B1100: MC-SW: Linearizing: Parameter values are written to false location. Fixed. (B205)

Release 3.10 Build 20090415

- MC-SW: B1100: velocity control mode supported (F160)
- MC-SW: B1100-GP: Run Mode Command Table added (F254)
- OS-SW: B1100: MAC ID selection: Dig In + Offset (Offset can be MAC ID Parameter) (F258)
- MC-SW: B1100: Position controller set B added (used also for Velocity-Control mode) (F275)
- MC-SW: B1100: motion command clear event handler added (008xh) (F289)
- MC-SW: B1100: indexer motion commands added (070xh, 071xh, 07Exh, 07Fxh) (F290)
- MC-SW: B1100: Force control with analog feedback functionality added (with access code) (F292)
- OS-SW: B1100: On power up, until +24V supply is ok, the red LED changes every second. (F312)
- OS-SW: E1100: On power up, until +24V supply is ok, the ERROR and WARN LEDs are blinking (change every second) (F312)
- MC-SW: B1100: Motion command functionality harmonized with E1100 (F313)
- MC-SW: B1100: Motion command clear event handler (008xh) added. (F314)
- MC-SW: B1100: Motion command (007xh) broadcast trigger for interfaces with broadcast functionality (for CanOpen) added. (F315)
- MC-SW: B1100: Absolute 0..5V sensor type supported on X3. (F316)
- MC-SW: B1100: Support linearzing hall signal offset and amplitude gain. (F317)
- MC-SW: New I decrement for axis with friction when standing with position deviation hysteresis for start and stop (disables noise deadband). (F318)

- MC-SW: B1100: Pos Lag Standing does not exist, removed consistently (B174)
- LinMot-Talk: CT-Table: When an entry could not be read correctly, the error message contained the wrong entry ID. Fixed. (B186)
- B1100-CO: MAC ID has been always taken from Parameter. Changed to working MAC ID variable. (B187)
- ADF-file: PS01-48x with PL01-28x2450/2370 was defined with wrong force constant. Fixed. (B188).
- MC-SW: Linearizing Sine/Cosine adjust did not work in negative direction. Fixed. (B193)
- E1100: MC-SW: Bug fix Linearizing Mode Motor Hall Offset and Amp Correction with positive Motor Count direction (didn't work at all since Version 3.8) (B194)
- B1100: MC-SW: Missing Parameters: PTC Sensor 1 Hot and PTC Sensor 2 Hot in Warn Detection Mask, PTC Temp Sensor in Error Detection Mask. Added (B196)

Release 3.9 Build 20090630

- Install Script: E1100RSXC SW not supported correctly. Fixed. (B202)
- B1100: OS: RAM values when starting up not correctly initialized. May result in ejecting the slider when starting the MC and enabling the power stage. (B203).

Release 3.9 Build 20090520

- B1100 Revision C controllers supported. (F311)
- ADF: PS 48, PL01-28x2450/2370 defined with false force constant Corrected. (B188).
- B1100: +24V watch on startup: Starts up when voltage rises over 21V (was 22.2V).(B189)

Release 3.9 Build 20090105

- OS-SW: B1100: Save remanent memory on power down did not work. The Operating hours and error messages have not been saved. Fixed. (B180)
- CO-SW: B1100: Object Dictionary Index 1008 (Manufacturer Device Name) has responded with 0h. Fixed. (B181)
- ADF-Files: The high clearance slider list for the PS01-37x120F-HP stator contains wrong items (PL01-19x305/160 and PL01-19x365/220). Fixed. (B183)

Release 3.9 Build 20081110

- MC-SW: Parameter Control Frequency (E1100: UPID $1388, B1100: UPID $61B0) can be adjusted by the user (service login necessary). (F265)

- CO-SW: Boot up MSG after communication reset did not work. Fixed. (B175).
- CO-SW: Node guarding bug fixed. (B176)
- PC-SW: The CT on E1100 is only written into Flash. So, when read out afterwards, the old values are still displayed. Corrected (write into Flash and RAM). (B177)
- MS-SW: When homing started from position greater than 1670mm, the error „position lag always too big „ occurs wrongly. Fixed (B178)
- MC-SW B1100: Faulhaber motors only can turn in one direction. Fixed. (B179)

Release 3.9 Build 20080825

- MC-SW: B1100-GP & -VF: Command Table (CT) functionality with up to 31 commands added. (No RAM mirror, no CT service → CT cannot be altered at run time or from PLC). (F225)
- MC-SW: Triggered Rise/Fall motion run mode for VAI motion added. (F226)
- E1100GP (LC, HC, XC) Rev. D (UL-conform) supported. (F230)
- MC-SW: B1100-GP Streaming variables added. (F232)
- MC-SW: B1100 Capture functionality added. (F233)
- MC-SW: B1100 digital PTC1/2 functionality added. (F234)
- MC-SW: B1100-LC: Phase Switch On Test turned off. Default values set to the HC/XC levels (import/export problem). (F238)

- MC-SW: Trees Min/Max Values for LC, HC, XC controllers adapted. (B156)
- CO-SW: Every RPDO which is enabled had to be received at least once before any RPDO works. Changed, each RPDO will be handled when received, independent of other RPDOs. (B160)
- OS-SW: B1100: Talk Cmd LogIn has responded wrong device text, response was too short by 2 bytes. (B161)
- PC-SW: OSCI: Displays negative values wrongly (value: $FFFF → display: –2), fixed. (B162).
- MC-SW: Homing on Z sometimes ca 6.5mm wrong, fixed. (B164).
- MC-SW: B1100: Brake output functionality did not work correctly, fixed. (B167).

Release 3.8 Build 20080603

- PC-SW: Motors PS01-37x120F-HP with PL01-19x… added. (F204)
- OS-SW: B1100: Serial number parameter added in parameter section. (F215)
- PC-SW: Inductivity values for motors and default position control parameter values adapted. (F216)
- MC-SW: B1100: Current pattern phase search for 3 phase motors added. (F217)
- MC-SW: New Parameter Ready To Operate Mode (Position Controlled, Demand Current = 0) added. (F218)
- MC-SW: B1100: Motion Command 019xh Go To Analog Position supported. (F219)
- MC-SW: B1100: eval X14 digital output driver status added. (F220)
- MC-SW: New Motion commands added: 06Dxh/06Exh Start CAM curve on rise/fall trigger event with delay in counts and amplitude scale and length in counts. (F221)
- MC-SW: B1100: Motion commands 0C0xh..0C5xh supported. (F222)

- OS-SW: E1100: Curve Service: Modify curve data from interface has written wrong values. Fixed. (B146)
- OS-SW: RS-Talk communication stability improved. (B147)
- MC-SW: E1100: Motion command write X4/X6 with mask bug fixed (set was without mask). (B149)
- MC-SW: Motion Command 0C5xh (VAI Dec=Acc Go To Pos With Max Curr) bug fixed. (B150)
- CO-SW: On NMT Operational State data is always copied, even if no data has been received so far. (May have effect to power up behaviour (Not Ready to Switch On) if state machine on PLC is not correctly implemented.) Fixed (B152).
- OS/MC-SW: B1100: The LEDs have a similar behavior as the E1100 (OS turns all LEDs on for check, MC only uses the red LED for error display). (B155)

Release 3.8 Build 20080505

- PC-SW: Save/Load Image added. The complete firmware, tables and configuration of a controller can be read out and saved into another controller. The two controllers have to be the same type, version and revision. This allows making an exact copy (like a clone). (F105)
- PC-SW: Structure of manual improved. Under “Manuals” can be accessed the relevant documents and in a structured organization all manuals. (F116)
- Doc: Installation Guide for B1100 includes XC type. (F117)
- PC-SW: Motor Wizard: Pictures and description for B1100 and E1100 separated, because of different signals and UPIDs. (F156)
- MC-SW: CT commands “IF Cmd Table Var 1 Less Than UPID Value” and “IF Cmd Table Var 2 Less Than UPID Value” added. (F157)
- MC-SW: PS01-23x160H-HP motor type added. (F162)
- DN-SW: SDO Explicit messaging Eva for reading/writing CT, curves, error log and parameters added. (F163)
- PC-SW: Stop script for B1100 added. In case of LinRS the controller can now be stopped after a power up. (F164)
- PC-SW: Oscilloscope: Titel (caption) is now also be printed. (F165)
- MC-SW: B1100 init modes on limit switches added. (F167)
- MC-SW: Command 009xh Master Homing added. Can be used if master already knows the motor position. It is not necessary to enter the homing state. Useful for B1100 VF. (F170)
- MC-SW: The quickstop can be turned off for each error separately. If quick stop is turned off, the motor goes directly to the power off state. (F171)
- Easy-Steps: Master Home command added. (F173, see also F170)
- PC-SW: If a error cannot be mapped to a clear text message, the error code will be displayed. (F174).
- PC-SW: B1100 streaming motion commands in control panel supported. (F175)
- MC-SW: B1100 Limit switch functionality added. (F176)
- PC-SW: New variables for monitoring “Mapped Home Switch”, “Limit Switch negative” and “Limit Switch positive” added under (MC SW Capture, Trigger & Mapped Inputs). (F177)
- CO-SW: B1100: Node guarding, heart beat and sync watch dog can be freely combined as long as compatible with the norm. (F180)
- Easy-Steps: B1100: Each digital input on X14 has its linked output mode. (e.g. in position for each command). (F189).
- PC-SW: Multiple Login over CAN-bus added. Under File\Scanning (With CANusb) a MAC ID scan is performed and all present controllers are listed. (F190).
- MC-SW: State Ready to Operate can now also be configured as current less (Max Curr = 0A). (F195)
- DP-SW: For displaying the cycle time, there are now two variables. Time fast (same as before) and time slow. (F196).
- PC-SW: B1100: NMT states are available as clear text messages. (F197)
- PC-SW : Siboni DC brushless motors added. (F203)

- OS-SW: B1100: MAC ID and Baud rate can be defined over digital inputs on X14. The MAC ID Source Select parameter (UPID 60B0h) has different modes for evaluating the digital inputs. The CAN Baud Rate Source Select parameter (UPID 60B2h) has also new modes.(F205)

- PC-SW: Buttons for Show Messages and Show Curves have been active for B1100 controllers. Fixed. (B114)
- PC-SW: Guest could not import configurations. Feature added (B115)
- MC-SW: E1100: Modify CT entry (209xh), did not handle ID = 0 correctly → problems when reading out the CT from the PC. Fixed. (B118)
- PC-SW: When controller was in error state, LinMot-Talk still showed the running flag. Fixed (B122)
- PC-SW: USB_RS232 converter under windows vista now supported. (B126)
- PC-SW: File name problem for quick start configurations (PS01-37x120-HP.adf) solved. (B127)
- PC-SW: Max current definitions in adf-file for 48x240F motors changed to 26A. (B128)
- DP-SW: Timer watchdog on DP master with Master/Gantry communication occurred, when Profibus started up. Fixed. (B129).
- DP-SW: BusID parameters Min/Max limited to range 1..126. Configuration and ID-switches will be checked on power up. If error is detected, ID is set to 126 and ASIC is started up. (B131)
- PC-SW: Oscilloscope: Did not work on variables/parameter offsets. (B133).
- LinRS: Problem in streaming mode with task priorities. Fixed. (B134)
- CO-SW: B1100: Node guarding bug fixed. (B136)
- MC-SW: B1100: Indexing encoder Step/Dir evaluation bug fixed. (B137)
- DP-SW: Baud rate display variable was not appropriate. Variable now read out in cyclic task. (B138)
- MC-SW: X4 connector write interface outputs bug fixed. (B139)
- OS-SW: CanTalk sends an object too much. Fixed (B140).
- LinRS: Increased receive communication speed, allows now streaming with 4ms period at 115 kBaud. (B141)
- MC-SW: AD converter timing improved. (B142)
- MC-SW: B1100: Digital Outputs cannot be set to “Always On”. Bug fixed. “Always On” on X14.18 and X14.19 also available. (B141).
- OS-SW: E1100: CanTalk did sometimes not respond. Bug fixed. (B142)
- OS-SW: E1100: Read (modified) UPID list via interface bug fixed. Since 3.7. (B143)
- OS-SW: E1100: Add curve via interface but fixed (Trap occurred). Since 3.7 (B144)

- SW: Improved comments for DN variables. (D111)

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- CO SW: On B1100 the SDO set UPID command has performed a reset. Fixed. (B117)
- PC SW: File PS01-37x240.adf had a format error. Fixed. (B120)
- Doc: Installation_Guide_E1100 updated (current ratings for LC and XC controllers updated). (D103)
- PC SW: File PS01-37x120-HP.adf renamed to PS01-37x120F-HP.adf. If a 37x120F-HP motor was set up with a former LinMot-Talk version and the motor wizard is run again in the actual version, the .adf file is not found. In this particular case the motor must be set up again. (B124)

PC SW: B1100 firmware release text not written when firmware loaded via bootstrap. (B125)

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- MC SW: Read out number of temperature sensors and error High/Low temperature from motor (if available). (F104)
- MC SW: Position recovery feature (under homing) added. (F119)
- MC/PC SW: HP (High Performance) motors are supported. (F122)
- MC SW: New motion commands 0C5h..0C7h with limited maximal current. (F125)
- MC SW: Newest LinMot PIC motors (with versions higher= C0h) the maximal temperature for the calculated model is derived from the programmed error temp in the motor. (F126)
- MC SW: New CT "motion" command 24Cxh and 24Dxh "write RAM value of UPID to Command Tab Var1/2" added. (F127)
- MC SW: Status Word bits Position Band1/2 changed to more flexible range indicator 1/2. The default configuration is compatible. (F128)
- MC SW: Analog Force Feedback: Scaling and UPID (was 1506h new 1508h for I Gain Force Control function changed (from 0.1 A/(N*s) to 0.01 A/(N*s)). (F129)
- MC SW: New CT "motion" commands 262xh and 263xh "IF masked X4 resp. X6 inputs equal then else" added. (F130)
- MC SW: New CT "motion" commands 264xh and 265xh "IF masked status word resp. warn word equal then else" added. (F131)
- MC SW: New Motion commands 0050xh..0056xh to modify/define curves in RAM added. (F132)
- MC SW: New motion commands 02Ex and 02Fx for infinite motions of rotative motors added. (F133)
- MC SW: New CT "motion" commands 136xh and 137xh "VAI Go To Cmd Tab Var1/2 Pos From Act Pos And Act Vel" added. (F134)
- MC SW: IO force capabilities over UPID's 1CC0h, 1CC1h, 1CC2h, 1CC3h and 1C88h. Because of this feature, the PC SW supports new the IO Panel. (F135)
- MC/PC SW: High clearance motors and modules supported. (F136)
- MC SW: Commutation Init Modes „Hall Switches On X3/X13 Until Hall Switch Edge“ added. (F141)
- MC SW: Variables with value for analog inputs are actualized before the motor is in controlled state.
- MC SW: Motion Command range added for interface and application SW layers. (F146)
- MC SW: New motion commands 06Axh and 06Bxh "CAM goto pos with delay and length on trigger event" added. (F147)
- MC SW: CT command for masked access to X6 DigOut added. (F148)
- MC SW: Triggered Cam Commands added. (F149)

- DP SW: CT can be read/written over the bus. (F137)
- DP SW: Read error log over the bus added (error number and short text). (F151)

- CO SW: CT can be read/written over the bus. (F137)
- CO SW: Read error log over the bus added (error number and short text). (F151)

- LinRS SW: Read error log over the bus added (error number and short text). (F151)

- PC SW: Login "Guest" added. This login has no password, restricted service support, parameter and variables are read only. (F106)
- PC SW: Oscilloscope configuration and sampled data is read out from controller and displayed at login. (F108)
- PC SW: Button for "Switch Offline" added. (F110)
- PC SW: Find parameter can also search for a caption or part of caption. (F111)
- PC SW: Generate UPID list from actual configuration. List of Device UPID, Master UPID and path. (F114)
- PC SW: Improved information display at login process. (F118)

- PC SW: SVE (secure voltage enable) is clearly highlighted when not set. Helps for commissioning. (F120).
- PC SW: The install package guides also through the possible application software (which is type dependent). (F138)
- PC SW: In the oscilloscope comments can be added and save with shots. (F142)
- PC SW: When controller is running and the user changes a non life parameter, a window with the stop proposal is displayed. Stop must be chosen explicitly. (F143)
- PC SW: Module-Wizard added. In the motor wizard can be chosen LinMot Modules as motor types. (F144)

- MC SW: Reactivation of parameter 1473h after homing. Fixed. (B103)
- MC SW: Position Controller with Integrator Limit = 0 fixed. (B107)
- CO SW: NMT state numbers according DS301 fixed (B113)
- OS SW: AddCurveData and ModifyCurveData bug last data part fixed. (B102)
- PC SW: Max Motor Current in PS01-48x210.adf changed from 20A to 15A. (B104)
- PC SW: Error in command list fixed. „IF Analog Value on X4.4 Greater Than“ command must be "Less Than”. Command table condition: If Analog Value greater then is IF analog value is less than corrected. (B106)
- PC SW: Control panel switched offline by hazard. Fixed. (B108)
- PC SW: Serial link after aborted install script not released. Fixed. (B109)
- PC SW: LinRS test tool: After Open port without selected baud rate made it impossible to open correctly port afterwards. Fixed (B110).
- PC SW: Oscilloscope continuous mode in combination with cyclic variable read was instable. Fixed (B111)

Release 3.6 Build 20071126

- CANopen: Legacy Sync Watchdog bug fixed (Sync Cycle time can now be set to max value)
- PC SW: Max Motor Current in PS01-48x210.adf changed from 20A to 15A (B104)
- MC SW: Reactivation of parameter 1473h after homing bug fixed (B103)

Release 3.6 Build 20070803

- Parameter Tree Bug (Default, Min, Max Value) fixed

Release 3.6 Build 20070621

- PC Software: Compatible with Windows Vista (HINT: In case of Windows Vista change the default install directory C:\Program Files\LinMot\... to C:\LinMot\... or C:\Users\Public\LinMot\...)
- OS: Curve number bug in curve service via fieldbus fixed
- MC SW: Temperature model bug for EC motors fixed
- Documentation updated

Release 3.6 Build 20070119

- PC Software: High clearance sliders supported.
- PC Software: EC Motors Data Sheets added (\DOC\EC Motors)

Release 3.6 Build 20061206

- CANopen: Sync interrupt handling bug fixed (bug since Release 3.6 Build 20060626)
- CANopen: Reading the changed parameters list ends now with FFFFh.
- PROFIBUS: Parameter Channel Module with fixed byte order added (not reversed). Is hidden in the GSD-File.
- MC SW: CT command caption “IF Analog Val on X4.4 Less Than” fixed (was “Greater Than”).

Release 3.6 Build 20060718

- Profibus: Timing problem of hall signal AD conversion in operational state 5 bug fixed
- MC SW: Scaling in Position Indexing Mode bug fixed.

Release 3.6 Build 20060626

- PC Software/MC Software: Command Table (CT) supported.
- MC Software: Capture functionality on X4.5 supported.
- MC Software: The Run mode "Analog" has a new parameter "Evaluation Position Deviation (UPID = 14D4h)".
- MC Software: New command Goto Analog Position 019xh.

Release 3.5 Build 20060522

- PC Software: Latest GP controller version (Version 1 Revision C) supported.

Release 3.5 Build 20060404

PC Software: Start up problem with Czech regional settings fixed.

Release 3.5 Build 20060316

- MC SW: status word: 'Motion Active' bit together with Trig CAM Run Mode bug fixed
- MC SW: Motion Commands 0Byxh bug fixed (velocity value was not evaluated before)
- OS: Startup timing problem bug fixed
- PC Software: Slider PL01-12x480/430 added to adf files

Release 3.5 Build 20060126

- MC SW: In Target Position when using Time Curves Bug fixed (did not work correctly in Release 3.5 Build 20060112

Release 3.5 Build 20060112

- PC Software: ADF-Files for further EC Motor types added.
- PC Software: LMC configuration can be open offline by double click in windows explorer.
- PC Software: Noise filter setting added to motor wizard.
- PC Software: PVL export bug fixed (did not work correctly in the Release 3.4).
- MC SW : Improved current commutation for 3 phase motors.
- MC SW : Improved commutation length calculation for sensor resolutions higher than 100nm (bug fix).
- MC SW : Variable with UPID 1C89h (X4 Intf Outputs) available now on all controller types (bug fix).
- MC SW : Sensitivity of Phase Switch on Test reduced (default value of UPID 102Dh increased to 10V).
- MC SW : Parameters with UPID 11A1h and 11A5h (Force Constant / Edge Force Constant) range extended.
- Profibus : Reduced CPU Usage in case of DP connection loss (bug fix).
- Profibus : Data word order configurable.
- EasySteps Appl: Up to 8 IO Motions definable now (before: 4 IO Motions).

Release 3.4 Build 20051121

- PC Software : Control Panel is available in offline mode now.
- PC Software : Live-Parameter monitoring with variable service possible.
- PC Software : Parameter, Variable, MC Command, Errors and Warning description in German.
- PC Software : Improved Motor Wizard (English/German/Italian, Pictures, EC Motors).
- PC Software : Improved curve tool (two lists, new curve type 'limited jerk').
- MC SW : New homing modes (usage of X12 index signal).
- MC SW : 3 phase EC motors supported.
- MC SW : Integrator Limit bug fixed.
- MC SW : Timer watchdog error on freezing bug fixed.
- MC SW : Analog PTC/NTC evaluation of PTC1 input added.
- MC SW : Ctrl Word Go To Position stops by clearing the flag during the motion (bug fix).
- MC SW : Status bits 'In Target Position' and 'Motion Active' added in State Machine Sub State variable.
- MC SW : Run Mode Triggered Cam Curve supports funning a Cam profile on falling trigger edge.
- MC SW : Noise Deadband to position controller added.
- MC SW : Correction values (hall offsets, etc) are read out of the motor and used at run time.
- MC SW : New lineraization mode added (linierization between two mechanical stops).
- Profibus : Diagnose priority bug fixed.
- Profibus : Monitoring Channels: 32 Bit Values bug fixed
- Profibus : Parameterchannel: Commands for Getting UPID List added
- Profibus : Intf Dip Switch evaluation bug fixed
- CANopen : Reset Command by SDO is now acknowledged
- CANopen : If a PDO is disabled, the corresponding mapping is automatically deleted
- New: MasterSlave Application
- New: EasySteps Application

Release 3.3 Build 20050610

- PC Software : Force Factor information added to Control Panel.
- OS/PC Software : Oscilloscope upgraded for the usage of 8Bit variables.
- MC SW : Parameter for resetting indexer encoder on homing added.
- MC SW : Disturbance mode parameter of Winding settings bug fixed.
- MC SW : 'Wrong Slider' error detection bug fixed.
- LinRS : Address selection via hex switches bug fixed.

Release 3.2 Build 20050603

- First official LinTalk1100 software release.