DriveControlSuite V 6.7-D

In the new DriveControlSuite, the **switch to 64-bit architecture** enables you to manage significantly larger drive projects, in which **EtherNet/IP** is now also available for industrial communication. For **live firmware updates**, the new Latest version option offers greater ease of use.

Starting with version 6.7-D, Windows 11 (64-bit) or Windows 10 version 1809 or later (64-bit) is required for the installation and operation of DriveControlSuite.

- **EtherNet/IP**
  SB6, SC6, SI6: In addition to PROFINET and EtherCAT, the new V 6.7-D-**IP** fieldbus variant of the firmware now also provides EtherNet/IP for industrial communication. For more information on this topic, refer to the new EtherNet/IP manual and the new versions of the drive controller manuals.
  - **New wizards and parameters**
    Numerous new parameters are available for parameterizing EtherNet/IP. For targeted commissioning of the communication, they are grouped thematically for you in the new wizards (wizards: EtherNet/IP > ...).
- **DS6: Switch to 64 bits**
  As part of the implementation of the requirements of the Cyber Resilience Act (CRA), DriveControlSuite was switched from Qt5 (32-bit) to Qt6 (64-bit). With the switch to 64 bits, DriveControlSuite can address more memory, thereby enabling the management of significantly larger project files. In the future, Windows 11 (64-bit) or Windows 10 version 1809 or later (64-bit) will be required in order to install and operate DriveControlSuite.
- **Live firmware update: Latest version**
  The new Latest version option allows you to easily and simultaneously update multiple drive controllers to the latest available firmware version without having to manually select the version for each series or fieldbus variant (Online connection window, Live firmware update tab).

More new features

- **PROFIdrive: Torque reduction, drive data**
  A new wizard is now available for Siemens telegrams 102 and 105 Torque reduction (MOMRED); in addition, the Additional telegram 750 wizard has been updated to include the M558 parameter. To improve searchability, the Drive data wizard has been expanded to include the reference speed coordinates and maximum speed (parameters: M571, B83).
- **Motor potentiometer: Range limits**
  Drive Based: The range limits for the motor potentiometer additional function have been extended, allowing for greater flexibility in parameterization. The new default values are 100% and −100%, respectively (parameters: G362, G363).

Optimizations

- **Predictive maintenance: Send load matrix**
  Starting with DriveControlSuite V 6.7-D, the load matrix can once again be sent to STOBER. Due to a technical change by Microsoft, STOBER needed to make server-side and software-side adjustments to enable the load matrix to be sent again.
- **Display text: Saving values**
  SB6: For SB6 series drive controllers with an operating unit, the display text has been optimized for the case that the A00 Save values action fails due to the write protection of the SD card (result: A00[2] = 16: SD write protected).
- **Analog inputs/outputs**
  SB6: For SB6 series drive controllers with XB6 terminal modules, the wizards now allow you to toggle the mode of analog outputs AO1 and AO2 between current and voltage sources. For the velocity override, all available analog inputs are now displayed as sources (wizards: Analog output 1, Analog output 2, Velocity override: Data source).

11/2026 | ID 443238

- **Double-axis controller: Parameter check, cyclic set value specification**
  SC6, SI6: For double-axis controllers, a correction was made regarding the update of the set value specification in axis B when the same motion command with cyclic set value specification is active on both axes. In addition, the plausibility check for the release and engaging times of the brakes has been expanded to include axis B (parameters: F04[1], F05[1]).
- **Software limit switches**
  Outside the software limit switches, the axis now also rejects Jog+ and Jog− commands, as well as the MC_TorqueControl, MC_GearIn, and MC_GearInPosition motion commands.
- **Referencing**
  Drive Based, PROFIdrive: When referencing using a reference switch or limit switch, the correct velocity and direction of motion are now used if the MC_MoveVelocity motion command was executed in cyclic mode before referencing (mode: I424 = 1: Velocity cyclic).
- **Motion commands: MC_MoveAdditive, MC_Winder**
  For multiple consecutive MC_MoveAdditive motion commands, the motion is now rejected if the command would result in negative motion due to a value range overflow. In the Drive Based Center Winder application, the correct set value specifications are now used in the Command operating mode when switching from MC_Winder to another motion command.
- **FSoE: Process data mapping**
  SX6, SY6: The safety-relevant parameters in process data mapping are now set to the standard mapping during device start-up to correct any unintended changes.
- **EtherCAT: Process data mapping**
  SC6, SI6: For double-axis controllers, a correction was made for array parameters in axis B for user-defined mappings; for single-axis controllers: only the channel for axis A is now displayed in the process data mapping wizards (wizards: Received process data RxPDO, Transmitted process data TxPDO).
- **PROFIdrive: Drive data, stop signal**
  SB6, SC6, SI6: For better searchability, the coordinates of the reference speed and the maximum speed have been added to the wizard (parameters: M571, B83; wizard: Drive data). If a motion in progress is interrupted by the stop signal from the control panel, the interrupted motion command now resumes as soon as the stop signal is no longer active.
- **Sensorless vector control 2.0: Brake**
  If the brake is activated when an online connection exists, the corresponding parameters are now displayed in full immediately (control mode: B20 = 4: ASM - Sensorless vector control 2.0).
- **Fault memory**
  The display of motor temperature for PTC thermistors and the display of the current values for short-circuit, ground fault, or overcurrent events have been optimized in the fault memory (events: 31: Short/ground, 32: Short/ground internal, 33: Overcurrent).
- **Drive controller duplication**
  When duplicating a drive controller in the project tree, the Messages window no longer incorrectly displays the Reverse documentation deleted entry.

11/2026 | ID 443238

DriveControlSuite V 6.7-D SP1

This release is a product update and includes general optimizations.

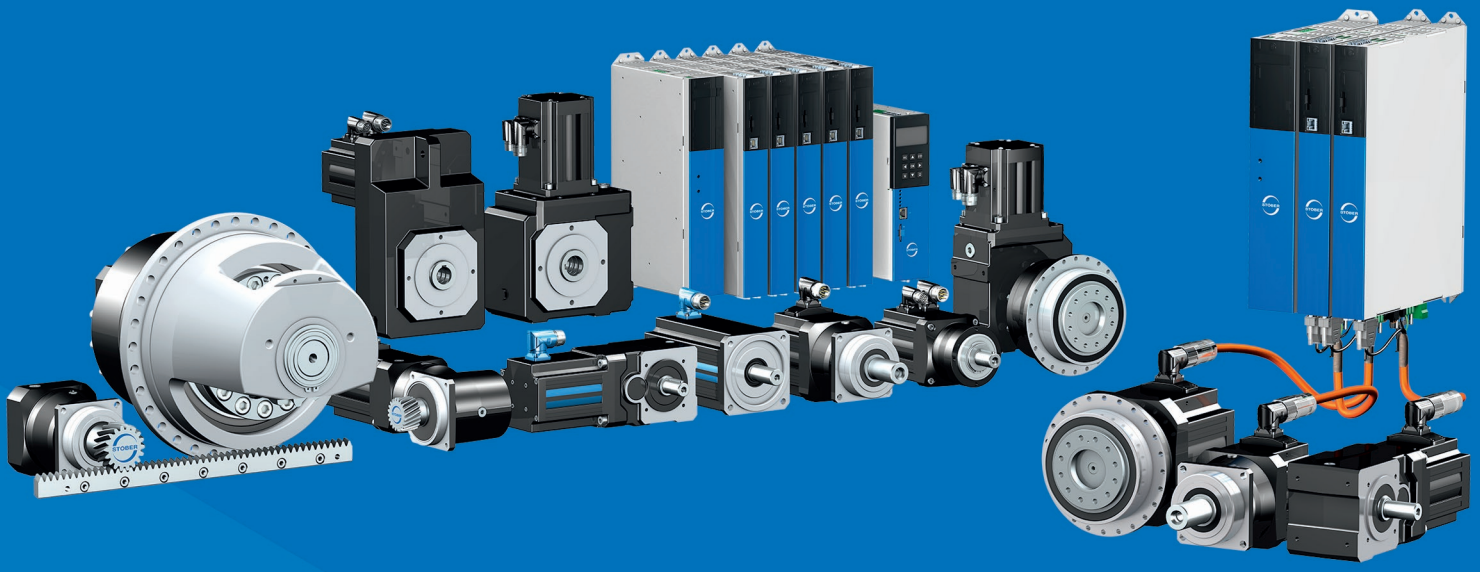
- **Service communication**
  SC6, SI6: The new firmware contains a correction for service communication between DriveControlSuite and drive controllers with production numbers ≥ 9500000 for the -EC and -IP fieldbus variants of the firmware (nameplate: S/N; parameter: E52[2]).
- **EtherNet/IP**
  SB6, SC6, SI6: To improve the use of convenience functions for cyclic communication in CODESYS controllers, the EDS file (*.eds) has been expanded to include additional information on process data mapping.
- **DriveControlSuite**
  DriveControlSuite can now also be run on virtual machines that do not have any components installed for displaying 3D content.

DriveControlSuite V 6.7-D SP2

This release is a product update and includes general optimizations.

- **Quick stop velocity**
  SB6, SC6, SI6: For axis types that are not user defined, the velocity for initializing the quick stop is scaled based on the axis model again (velocity: I10; axis type: I05 = 2: Rotational, 3: Translational).
- **Service communication**
  SC6, SI6: The V 6.7-A SP6-PN firmware contains a correction for service communication between controller and drive controllers with production numbers ≥ 9500000 for PROFINET, the correction is already included in firmware V 6.7-D SP1 for EtherCAT and EtherNet/IP (nameplate: S/N; parameter: E52[2]).

11/2026 | ID 443238



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11/2026

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