

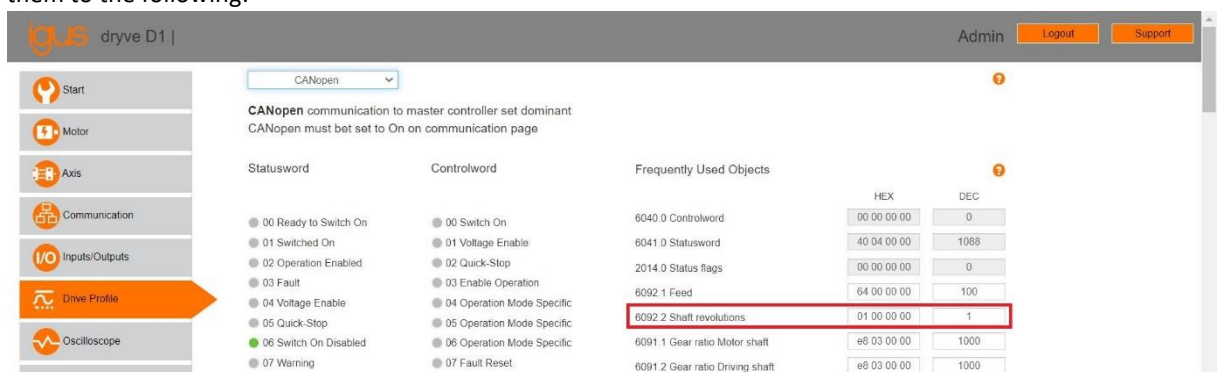
dryve D1: Firmware Update Information

valid from firmware version: dryve-D1-1-20210510



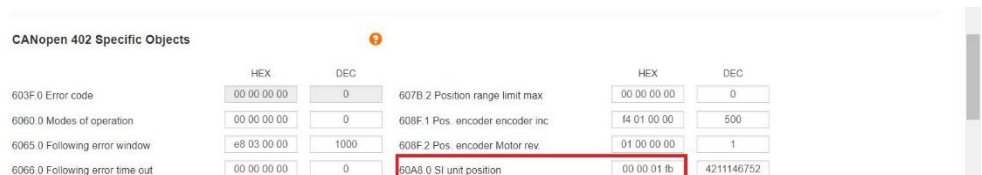
Due to substantial functional enhancements, it is necessary to follow the following procedure when updating firmware versions "dryve-D1-1-2020xxxx" and older to versions "dryve-D1-1-2021xxxx" and younger:

1. Deactivate the bus systems
[Operating Manual dryve D1 V 3.0](#), chapter 5.6.3 Bus Systems, page 63
2. Disable motor controller via DI7 "Enable"
[Operating Manual dryve D1 V 3.0](#), chapter 6.1 Usage DI7 – Enable, page 87
3. Save the current configuration via the user interface of the dryve D1
[Operating Manual dryve D1 V 3.0](#), chapter 5.3.5 Configuration, page 39
4. Execute the firmware update
[Operating Manual dryve D1 V 3.0](#), chapter 5.3.6 Firmware, page 40
5. Load the previously saved configuration
[Operating Manual dryve D1 V 3.0](#), Chapter 5.3.5 Configuration, page 39
6. Check the following objects on the drive profile page in the mode CANopen and if necessary, change them to the following:



	HEX	DEC
6040.0 Controlword	00 00 00 00	0
6041.0 Statusword	40 04 00 00	1088
2014.0 Status flags	00 00 00 00	0
6092.1 Feed	64 00 00 00	100
6092.2 Shaft revolutions	01 00 00 00	1
6091.1 Gear ratio Motor shaft	e8 03 00 00	1000
6091.2 Gear ratio Driving shaft	e8 03 00 00	1000

➔ 6092.2 Shaft revolutions has to be set to 1 (DEC)



	HEX	DEC		HEX	DEC
603F.0 Error code	00 00 00 00	0	607B.2 Position range limit max	00 00 00 00	0
6060.0 Modes of operation	00 00 00 00	0	608F.1 Pos. encoder encoder inc	f4 01 00 00	500
6065.0 Following error window	e8 03 00 00	1000	608F.2 Pos. encoder Motor rev	01 00 00 00	1
6066.0 Following error time out	00 00 00 00	0	60A8.0 SI unit position	00 00 01 fb	4211146752

➔ 60A8.0 SI unit position: standard for linear is "00 00 01 fb" (HEX); for rotary "00 00 01 fe" (HEX)

7. Change the mode back to the one you preferer
[Operating Manual dryve D1 V 3.0](#), chapter 5.8 Drive Mode Selection, page 72
8. Enable motor controller via DI7 "Enable"
[Operating Manual dryve D1 V 3.0](#), chapter 6.1 Usage DI7 – Enable, page 87
9. Bus systems only:
Activate the bus systems
[Operating Manual dryve D1 V 3.0](#), chapter 5.6.3 Bus Systems, page 63
10. Restart the dryve D1 by disconnecting it from the power supply

This procedure is necessary to ensure that previously set parameters are adopted correctly.

If a bus system has been activated, no movement-relevant settings can be changed via the user interface – corresponding parameters are greyed out.

If a parameterised dryve D1 with a firmware version older than or equal to "dryve-D1-1-2020xxxx" is used after an update to "dryve-D1-1-2021xxxx" without loading a configuration, all previously set movement parameters values will be reduced by a factor of 10^{-5} and the "Feed Rate" will be set to the default value of 1 mm.

The functionality is therefore no longer identical to that before the firmware update.

New configurations or firmware updates of versions from "dryve-D1-1-2021xxxx" to younger versions are not affected by this procedure.