MOVISUITE® ModuleUpdatePackage V2.10.4.3 for MOVISUITE® V2.10.52.0

MOVI-C®

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Version: 002

Content:

1 General notes

This is the second MOVISUITE® module update package for MOVISUITE® version V2.10.52.0. This MOVISUITE® ModuleUpdatePackage contains the MOVISUITE® ModuleUpdatePackage V2.10.2.2. A previous installation of MOVISUITE® ModuleUpdatePackage V2.10.2.2 is therefore not necessary.
As a precondition for installing the MOVISUITE® ModuleUpdatePackage V2.10.4.3, only MOVISUITE® Version V2.10.52.0 must be installed. It does not matter whether the MOVISUITE® ModuleUpdatePackage V2.10.2.2 is also installed.

Installation:
The MOVISUITE® ModuleUpdatePackage V2.10.4.3 is used to update all unit and software modules of MOVISUITE® version 2.10.52.0. See chapters 2 and 3.

The installation requires approx. 50 minutes.

Following the installation, MOVISUITE® displays the MOVISUITE ModuleUpdatePackage Version on the "Program Information" tab under the MOVISUITE® Version as "Module package 2.10.4.3". If "Module package 2.10.52.0" or “V2.10.2.2” is displayed, this MOVISUITE® ModuleUpdatePackage was not yet installed.

Information:
You require administrator rights on the PC for this installation.

2 Contents of the MOVISUITE® ModulUpdatePackage

Due to error corrections the following modules are available with MOVISUITE® ModuleUpdatePackage V2.10.4.3:

2.1 Decentralized Inverter

- all Decentralized Inverter (DAC, DBC, DFC (+CiA402), DSI (+CiA402): Firmware 6.01

2.2 MOVIKIT® software modules

- MOVIKIT® MultiMotion: v2.5.155.202
- MOVIKIT® MultiMotion Gearing: v1.0.81.202
- MOVIKIT® MultiMotion Camming: v2.4.169.202
- MOVIKIT® Encoder Interface: v1.0.34.201
- MOVIKIT® Gearing: v1.0.134.202

2.1 ELSM control mode: Error 8.3 Maximum speed at the motor shaft

Firmware affected: The error affects firmware version 6.00 (decentralized inverters), which is included in MOVISUITE® V2.10.

Error description:
An ELSM initialization error occurs when switching between open loop speed control and closed loop speed control. As a result of this error, the calculated speed values are too high, which leads to error 8.3 on the drive.

Resolution: The ELSM initialization and speed calculation has been revised.
Availability: Starting with firmware version 6.01 for decentralized inverters.

2.2 MOVIKIT® software modules

MOVIKIT® MultiMotion: Modulo axis in mode "PositioningRelative" moves with an undefined modulo mode

Affected MOVIKIT® software module versions:

- MOVIKIT® MultiMotion v2.5.155.200
- MOVIKIT® MultiMotion Gearing v1.0.81.200
- MOVIKIT® MultiMotion Camming v2.4.169.200

Error description:
The error occurs only in the "PositioningRelative" mode under the following conditions:

- Modulo axis
- Configuration settings eMode = ActualPositionBased (change of target position = based on actual position)
- xStart and xActivate remain pending (no new starting edge)
- Target position changes to a new position

Result: Modulo axis moves with an undefined modulo mode!

Resolution: The described error has been fixed.
Availability: The error was corrected with these MOVIKIT® software module versions:

- MOVIKIT® MultiMotion v2.5.155.202
- MOVIKIT® MultiMotion Gearing v1.0.81.202
- MOVIKIT® MultiMotion Camming v2.4.169.202

MOVIKIT® MultiMotion: Absolute positioning with modulo axis leads to an error at the 32-bit overflow

Affected MOVIKIT® software module versions:

- MOVIKIT® MultiMotion v2.5.155.200
- MOVIKIT® MultiMotion Gearing v1.0.81.200
- MOVIKIT® MultiMotion Camming v2.4.169.200

Error description:
The error occurs only in "Positioning" mode:

Before the positioning starts, a check is made to determine whether the target position and the travel path are within the permissible limits. If necessary, a corresponding error message is shown correctly. When determining the travel path in the "Positioning" mode, an incorrect actual position is used for the modulo axis, which leads to a wrong error message at the 32-bit overflow.

Workaround:

If "xStart" = False/True, i.e. a new start edge is generated for a new positioning, the error does not occur and the positioning is performed correctly.

Resolution: The described error has been fixed.
Availability: The error was corrected with these MOVIKIT® software module versions:

- MOVIKIT® MultiMotion v2.5.155.202
- MOVIKIT® MultiMotion Gearing v1.0.81.202
- MOVIKIT® MultiMotion Camming v2.4.169.202

MOVIKIT® MultiMotion Camming: MOVIKIT® MultiMotion Camming: incompatible behavior after xSetMasterValue when using XOffsetCorrection

Affected MOVIKIT® software module version: MultiMotion Camming V2.4.169.200.

Error description:
The behavior in MOVIKIT® MultiMotion Camming V2.3.34.201 (from MOVISUITE® V2.2) was OK:
The master value of the curve position results from the sum: Position internal master + Position XOffsetCorrection.
Behavior in MOVIKIT® MultiMotion Camming V2.4.169.200 (from MOVISUITE® V2.10):
The master value of the curve position results directly from the position of the internal master, i.e. the position of XOffsetCorrection is not taken into account.
In particular, if the user performs a phase correction using the function XOffsetCorrection, it results in two different curve positions for the slave axis with the same initialization with "xSetMasterValue" before another start of the "Camming" mode.

Resolution: The described error has been fixed.
Availability: MOVIKIT® software module version: MultiMotion Camming v2.4.169.202.

MOVIKIT-EncoderInterface (Standard, Advanced): modulo limits in scaling of user unit are not processed correctly

Affected MOVIKIT® software module version: EncoderInterface V1.0.34.200.

Error description:
MOVIKIT encoder interface (Standard, Advanced): Modulo limit values are not processed correctly when scaling the user unit.
When defining the modulo limits, the number of decimal places must be taken into account.
Example: A modulo maximum of 360 degrees with 3 decimal places is the intended value. For this purpose, the modulo maximum must be set to 360000.

Resolution: Input is now possible without additional "zeros" for the decimal places.
Availability: MOVIKIT® software module version: EncoderInterface V1.0.34.201.

MOVIKIT® EncoderInterface with data source "external encoder": position value is doubled after reset warm or switching off and on

Affected MOVIKIT® software module version: EncoderInterface V1.0.34.200.

Error description:

After "reset warm" or switching off and on, the output value of EncoderInterface in mode "advanced" is doubled. The output value is passed directly to the linked slave axis via the interface "IMaster" in the structure "stMasterSetpoints.lrMasterPosition".

Resolution: Input is now possible without additional "zeros" for the decimal places.
Availability: MOVIKIT® software module version: EncoderInterface V1.0.34.201.

MOVIKIT® MultiMotion Gearing: If "Profilebased" is set as the start / stop transition, there is an exception error

Affected MOVIKIT® software module version: MOVIKIT® MultiMotion Gearing v2.5.155.200.

Error description:

The selection "Profilebased" is not yet supported as a start / stop transition. However, if this is configured, there is an exception because the GetIStart (Stop) Transition method does not return an interface. This cannot be configured in MOVISUITE, but this selection is possible in the IEC.

Resolution: Input is now possible without additional "zeros" for the decimal places.
Availability: MOVIKIT® software module version: MOVIKIT® MultiMotion Gearing v1.0.81.202.

3 MOVI-C® modular automation system – version overview of all MOVISUITE® series versions

With the following table, you can assign the available hardware and software components to a particular version.
The columns list only the latest version numbers of a particular version. The latest updates are highlighted in green font.

	Series versions					ModuleUpdatePackage				Series versions	Module-Update-Package	Module-Update-Package
Component	V1.1 (SP7)	V1.2 (SP8)	V2.0 (SP9.1)	V2.1 (SP10)	V2.2	V2.2.7.1	V2.2.8.2	V2.2.9.3	V2.2.10.4 & V2.2.11.5	V2.10	V2.10.2.2	V2.10.4.3
Release date	07/2017	01/2018	10/2018	03/2019	10/2019	12/2019	12/2019	02/2020	03/2020	07/2020	09/2020	10/2020
MOVISUITE® version	1.1.1180.0	1.2.1253.0	2.0.114.100	2.1.237.0	2.2.12.0					2.10.52.0		
IEC-Editor	3.5 SP9 Patch 5		3.5 SP12 Patch 3	3.5 SP13 Patch 1	3.5 SP14 Patch 3							
SEW-Profile (IEC)	SEW 3.5.9.50 (V3)		SEW 3.5.12.3 (V5)	SEW 3.5.13.1 (V6)	SEW 3.5.14.3 (V8)							
IEC libraries (extract)												
SEW IoDrvEtherCAT	1.0.200.0	1.1.200.0	1.3.200.0	1.4.200.0						1.5.200.0		
SEW IoDrvLogicalDevicePool	1.0.200.0		1.1.200.0	1.3.200.0	1.2.200.0					1.5.200.0		
SEW Common Fieldbus Slave Ext.	1.2.200.0		1.3.200.0	1.4.200.0						1.5.200.0		
SEW DeviceHandler	1.0.200.0	1.0.202.0	1.1.200.1	1.3.200.0						1.5.200.1		
SEW DeviceHandler Interfaces	1.0.100.7											
SEW DeviceHandler Interfaces 2	-		1.1.200.1	1.1.200.1						1.2.200.1		
SEW DeviceHandler Interfaces 3	-			1.3.200.0						1.4.100.0		
SEW PDO Handling	1.0.200.0											
MOVIKIT® Module												
Velocity Drive	-		1.1.200.1	3.0.3.200						3.0.3.200		
Positioning Drive	-			2.0.0.200	3.0.2.200					3.0.2.200		
RapidCreepPositioning Drive	-									3.2.0.200		
EncoderInterface	-									1.0.34.200		**1.0.34.201**
MOVIRUN® flexible	-		1.0.200.0	1.1.0.200	1.1.15.200					1.2.101.200		
MultiMotion	1.3.201.0	1.5.200.0	2.0.200.0	2.4.13.200	2.4.18.200					2.5.155.200	2.5.155.201	**2.5.155.202**
MultiMotion Camming	1.3.201.0	1.5.200.0	2.0.200.0	2.3.28.200	2.3.34.200				2.3.34.201	2.4.169.200	2.4.169.201	**2.4.169.202**
MultiMotion Gearing	-									1.0.81.200	1.0.81.201	**1.0.81.202**
Robotics	-		2.0.200.0	2.3.21.200	2.3.24.200					2.5.56.200	2.5.56.201	
MultiAxisController	-		2.0.200.0	2.6.20.200	2.6.28.200					2.7.217.200	2.7.217.201	
MultiMotion Auxiliary Velocity	-		1.0.200.0	1.4.11.200	1.4.13.200					1.5.87.200		
MultiMotion Auxiliary Positioning	-		1.0.200.0	1.4.11.200	1.4.13.200					1.5.87.200		
Velocity	-			1.3.21.200	1.3.25.200	1.3.25.201				1.5.74.200	1.5.74.201	
Positioning	-			1.3.21.200	1.3.25.200	1.3.25.201				1.4.173.200	1.4.173.201	
Gearing	-									1.0.134.200	1.0.134.201	**1.0.134.202**
StackerCrane	-									1.6.28.200		
StackerCrane MultiAxisController	-									1.6.28.200		
StackerCrane MultiMotion	-									1.6.28.200	1.6.28.201	
DirectMode	-				1.1.45.200	2.0.44.200				2.0.89.201		
PowerMode	-				1.1.59.200	2.0.49.200				2.0.105.201		
EnergyMode	-					1.0.21.200				1.0.73.201		

MOVISUITE® ModuleUpdatePackage V2.10.4.3 for MOVISUITE® V2.10.52.0

installation information

Component	Series versions					ModuleUpdatePackage				Series versions	Module-Update-Package	Module-Update-Package
	V1.1 (SP7)	V1.2 (SP8)	V2.0 (SP9.1)	V2.1 (SP10)	V2.2	V2.2.7.1	V2.2.8.2	V2.2.9.3	V2.2.10.4 & V2.2.11.5	V2.10	V2.10.2.2	V2.10.4.3
Release date	07/2017	01/2018	10/2018	03/2019	10/2019	12/2019	12/2019	02/2020	03/2020	07/2020	09/2020	10/2020
MOVI-C® CONTROLLER												
power (UHX85A)	02.00	02.01	03.00	04.00	04.02				04.04	05.00		
progressive (UHX65A)	-		02.00	03.00	03.02				03.04	04.00		
advanced (UHX45A)	-	01.00	02.00	03.00	03.02				03.04	04.00		
standard (UHX25A)	-	01.00	02.00	03.00	03.02				03.04	04.00		
FIELDCONTROLLER advanced (FHX45A)	-									04.00		
FIELDCONTROLLER standard (FHX25A)	-									04.00		
MOVIDRIVE® modular												
MDA without MOVILINK® DDI (single-axis module)	02.03	02.10	03.00	04.00, SN[1]: 18259774		05.00, SN[1]: 18259774				06.00, SN[1]: 18259774		
MDA with MOVILINK® DDI (single-axis module)	-			04.00 SN[1]: 18272576	04.01 SN[1]: 18272576	05.00, SN[1]: 18272576				06.00, SN[1]: 18272576		
MDA-CIA402 without MOVILINK® DDI (single-axis mod.)	-		03.00	04.00, SN[1]: 18266320		05.00, SN[1]: 18266320				06.00, SN[1]: 18266320		
MDA-CIA402 with MOVILINK® DDI (single-axis module)	-			04.00 SN[1]: 18272592	04.01 SN[1]: 18272592	05.00, SN[1]: 18272592				06.00, SN[1]: 18272592		
MDD90 (double-axis module)	02.03	02.10	03.00	04.00		05.00				06.00		
MDD90-CIA402 (double-axis module)	-		03.00	04.00		05.00				06.00		
MDD91 with MOVILINK® DDI (double-axis module)	-				04.10	05.00				06.00		
MDD91-CIA402 with MOVILINK® DDI (double-axis module.)	-				04.10	05.00				06.00		
MDP92A (with regulated DC link voltage)	-				01.03		01.04			01.05		
MDE90A (DC/DC- Converter module)	-						01.03			01.04		
MOVIDRIVE® system												
MDX without MOVILINK® DDI	02.03	02.10	03.00	04.00, SN[1]: 18259731		05.00, SN[1]: 18259731				06.00, SN[1]: 18259731		
MDX with MOVILINK® DDI	-			04.00, SN[1]: 18269842		05.00, SN[1]: 18269842				06.00, SN[1]: 18269842		
MDX-CIA402 without MOVILINK® DDI	-		03.00	04.00, SN[1]: 18267572		05.00, SN[1]: 18267572				06.00, SN[1]: 18267572		
MDX-CIA402 with MOVILINK® DDI	-			04.00, SN[1]: 18269877		05.00, SN[1]: 18269877				06.00, SN[1]: 18269877		
MOVIDRIVE® technology												
MDX_T	-			04.00		05.00				06.00		
CFN21A fieldbus card (PROFINET)	-			02.00	02.01	03.00				03.01		
CFE21A fieldbus card (EtherNet/IP™ & Modbus/TCP)	-			02.00	02.01	03.00				03.01		
CFP21A fieldbus card (PROFIBUS)	-									01.00		
MOVI-C® decentralized electronics												
DFC	-		03.10	04.00		05.00		05.10		06.00		**06.01**
DFC-CiA402	-		03.10	04.00		05.00		05.10		06.00		**06.01**
DSI	-		03.10	04.00		05.00		05.10		06.00		**06.01**
CSB51A safety card	-			02.05								
DAC	-					05.00		05.10		06.00		**06.01**
DBC	-					05.00		05.10		06.00		**06.01**
DSI-CiA402	-							05.10		06.00		**06.01**
safety cards MOVISAFE®												
CSS21A	-	01.05		02.05								
CSB21A	-	01.05		02.05								
CSS31A	-	01.05		02.05								
CSB31A	-	01.05		02.05								

1) SN = Part number