



JetSym

Version Update from V. 5.6.2 to V. 5.6.3

We automate your success

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1 New Features

Below, all features that are new in this version, as well as the enhancements are listed.

1.1 General information

1.1.1 New option when replacing in files

In the Replace in files dialog, a new option ensures that read-only files are skipped if the search criterion was found in read-only files instead of the replacement process being aborted as before.

This option should be used with great care, as it can produce inconsistent and untranslatable source code.

1.1.2 Remote maintenance mode

Introduction of a **remote maintenance mode**. The connection is established exclusively via TCP - XCOM.

1.2 Setup

1.2.1 Multidimensional constant arrays

Setup can now display multidimensional constant arrays.

1.3 Hardware Manager

1.3.1 EoE Configuration for JM-3xxx

The configuration pages for JM-3xxx in the hardware manager have been extended. It is now possible to activate and configure the Ethernet over EtherCAT (EoE) protocol.

1.4 Motion API

1.4.1 Overflow values of multiturn absolute encoders

If a modulo axis with a multiturn absolute encoder is always moved in the same direction, then at some point there will be an overflow of multiturn information. If the controller used is not switched off, it takes the overflow into calculation. However, if the controller is switched off, the axis is moved in this state and the gear used does not have a binary transmission ratio, it was previously not possible to restore the correct module position after switching on. Now there is a new function that can restore the correct module position even after the controller has been switched on. For example, the function is activated/deactivated for encoder 1 as follows, where AX1 is the name of the modulo axis:

```
AX1.EncoderChannel[1].HandleAbsOverflow.Activate()  
AX1.EncoderChannel[1].HandleAbsOverflow.Deactivate()
```

Whether the function is already activated for a modulo axis can be queried as follows:

```
AX1.EncoderChannel[1].IsHandleAbsOverflowAktive
```

Please use this function only for a modulo axis with multiturn absolute encoders.

1.5 Motion Setup

1.5.1 Commutation offset measurement

The page for measuring the commutation offset in the JM-35xx Motion Setup has been expanded to include the selection of the measuring method.

1.5.2 Updated motor database

The motor parameters for JHQ12-0018-018 have been updated in the motor database.

2 Fixed software bugs

This chapter describes the software bugs which have been fixed in the new software release. Please also refer to the **Open Issues** page in the online help.

2.1 General information

2.1.1 Multiple entries in the function tree

After loading a project, entries in the function tree could be present several times until a compilation run or an IntelliSense update had taken place.

2.1.2 Saving a project under a different name

After saving a project under a different name, JetSym could freeze after opening the program file.

2.1.3 Error when copying renamed files in the file tree

When renaming files in the file tree, if the clipboard was used to paste the file name, the contents of the clipboard could also have been pasted into an open editor window.

2.2 STX

2.2.1 STX compiler along with BigEndian controllers

Structured constants (arrays, structs) caused the compiler to generate incorrect code on BigEndian controllers (JC-36x / Coldfire).

2.2.2 Incorrect subscriber files for data type regFLOAT

Subscriber files could be corrupted if the regFLOAT data type was used.

2.3 Setup window

2.3.1 Probable crash associated with constant arrays

If an identifier of a constant array was entered in the Name column of the setup window, JetSym could crash.

2.4 Monitor

2.4.1 Incorrect display on the Task tab

In the monitor, the **Task** tab displayed the **+** boxes for all visible lines even if they did not contain any variables.

2.5 Editor

2.5.1 Tooltip for parameter information

If function calls involved further function calls as parameters or if the parameters were specified in multiple lines, the tooltip with the parameter information was not displayed.

2.6 Hardware Manager

2.6.1 "Motion Control" folder has always been created

The **Motion Control** folder in the Hardware Manager was always displayed after a new configuration was created, even if the used controller does not support Motion Control.

2.7 Motion Setup

2.7.1 Point-to-point motion buttons

If an axis was moved in Motion Setup using the **Endless Movement** button, it could happen that a short click on the button did not stop the axis motion after the button was released.

2.7.2 Motion Setup was not updated

The Motion Setup of MC-Global was not updated when adding/deleting axes.

2.8 Publisher/subscriber

2.8.1 When loading an old project the loss of configuration data was not indicated

When projects created with JetSym versions prior to 5.5.x are loaded, process data configurations may be lost. This is because the configuration rules have been modified in the meantime.

Now, JetSym displays a message and a description of what needs to be done to restore the process data configuration correctly.

2.8.2 Name of the generated variables for Publisher/Subscriber

When configuring publisher/subscriber registers of the JX3-COM-PND and JX3-COM-EIPA modules, inconsistent names were generated if the name of the bus node had been changed before.

2.8.3 Extended consistency checks for configuration of publisher/subscriber registers of JX3-COM-PND and JX3-COM-EIPA modules

For the configuration of publisher/subscriber registers of the modules JX3-COM-PND and JX3-COM-EIPA, the consistency check has been extended by the status and error registers.

3 Important notes

3.1 JetSym installation

The JetSym installer must be started with admin rights to be able to license JetSym during the installation process.

3.1.1 .NET Framework 4.7.2

This version of JetSym requires .NET Framework 4.7.2.