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Revision 1.00

8/22/2017

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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 Motion Setup

1.1.1 JM-1xx/JM-2xx: OS picklist

Updated OS picklist for JM-1xx, and JM-2xx.

1.2 Controllers

1.2.1 Controller JC-970MC

The controller JC-970MC has been added to the controller picklist.

2 Fixed software bugs

This chapter describes the software bugs which have been fixed in the new software release.

2.1 EtherCAT

2.1.1 JetSym failed to update the EtherCAT slave number

JetSym failed to update the EtherCAT slave number if axis parameter windows were open, and an axis, which was upstream on the bus, was set to simulation and then reset.

2.2 JetSym Editor

2.2.1 Redundant entries in IntelliSense list

The IntelliSense list contained duplicate entries if in keyword options “Match case” was selected.

2.2.2 Incomplete tooltips for method parameters in Editor window

The tooltip of a method displayed for pointers as parameters only the text **Pointer** in the Editor window. Now, the full type information is displayed, e.g. **Pointer To MCAxis**.

2.2.3 “Go To Definition” from Function Tree

In the case of methods and global functions of the same name, it could happen that the command “Go To Definition” jumped to wrong targets.

2.2.4 Missing keywords “this”, and “base” in a SUB method.

In a SUB method, JetSym neither proposed the keywords **this** and **base**, nor were any entries displayed in the IntelliSense pane if the keywords were followed by a period.

2.2.5 No IntelliSense picklist in connection with Enums & Bits

If an Enum or Bit variable was followed by a period, the IntelliSense pane did not show any entries.

2.3 Programming language

2.3.1 Initialization of an Array of Enum in a declaration

When an Array of Enum in a declaration was initialized, the initialization values of individual elements were not included.

2.4 Motion API

2.4.1 MCTechnoCoupling.GetCoupleFollowerPosition(...)

The Motion API method MCTechnoCoupling.GetCoupleFollowerPosition(...) returned a wrong value.

2.4.2 MCManager.FaultyObject[...] returned NULL Pointer

Read access to an MC object via Motion API call MCManager.FaultyObject[...] in MC versions 1.19.0.74 or higher returned a NULL pointer.

2.5 Pub/Sub

2.5.1 Incorrect Pub/Sub configuration of JX3-COM modules

If for an existing Pub/Sub configuration of JX3-COM modules the number of registers to be transmitted was reduced, JetSym did not correctly create the related Pub/Sub configuration files.

2.5.2 Pub/Sub configurations following “Save Project As...”

If a project consisting of JX3-COM modules and related Pub/Sub configuration was saved under a different name using “**Save Project as...**”, and then reopened, the Pub/Sub configuration of the JX3-COM module could not be read.

2.5.3 Upon program download “PubSub Error” was displayed

Once a program was downloaded to the controller, the red LED on JX-3-BN-ETH modules sometimes indicated an error (in the error register “PubSub error” was set).

2.6 General issues

2.6.1 Slow update process if a great number of axis parameter windows was opened

At updating axis parameters while a great number of axis parameter windows was opened, JetSym could freeze for seconds.

2.6.2 Copying multiple axes using drag & drop resulted in an incorrect ID

At copying multiple axes using drag & drop in Hardware Manager JetSym failed to assign new device and axis ID to the axis.

2.6.3 Display problems with font size of 150%

In Windows 8.1, Windows 10, and in some instances in Windows 7 certain dialogs and controls were displayed too small, or not correctly if the font size was 150%.

Note: In the case of display problems, the computer must be restarted after JetSym 5.4.1 was installed.

2.6.4 Revised axis parameter page for EtherCAT axes

Information on EtherCAT slave and device ID was removed from the axis parameter page.

2.6.5 Unhandled exception at opening a JX3-BN-ETH dialog

If the user switched to another controller using Hardware scan, and if there was a JX3-BN-ETH module in the hardware tree, it could happen that an exception was thrown when the configuration dialog was opened.