BUCHER automation

Version Update



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Version update from 6.0.1 to 6.0.2

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1 New additions

Below, all features newly included in this software version, as well as product enhancements are listed.

1.1 General

1.1.1 Change to platform files

The folder structure of the platform files has been modified.

1.1.2 Changes to the active configuration were not saved

If the active configuration was changed and then JetSym was closed without saving, the current active configuration in the .wsp file was lost. The behavior was the same even after saving.

1.1.3 UTF-8 with BOM

In the project settings of JetSym you can select UTF-8 with BOM as text encoding for the project files. This encoding is recommended as JetSym can then work more efficiently (compiler, Find in Files etc ...). You have the option of analyzing your project files and converting them to UTF-8 with BOM.

1.1.4 Automatic character encoding conversion

If UTF-8 with BOM is selected as the text encoding for the project files in the project settings and you add a file to the project that does not have a Unicode format, this file is automatically converted to UTF-8 with BOM format.

1.2 Editor

1.2.1 Search and replace term marked

When the focus changes from the search to the replace text box or back again, the text content is selected in both cases.

1.2.2 Note when searching/replacing

When searching and replacing, there is now an indication of how many search hits have been changed.

1.2.3 Cancelling an IntelliSense Update

If an IntelliSense update is running when JetSym or the workspace is closed, it can now be cancelled.

1.2.4 Code folding

Code blocks between **#ifdef** / **#ifndef** and **#endif** can now also be folded in and out using the code folding mechanism.

1.2.5 Displaying the character encoding

The character encoding of the active document is now displayed in the status bar of JetSym.

1.3 Hardware

1.3.1 New controller type JC-97xEXT

From this version onwards, the new controller types JC-970EXT and JC-975EXT can be selected.

1.3.2 MC-JM-600

The MC-JM-600 hardware is no longer supported from this version onwards

1.4 Setup

1.4.1 Changing the status of outputs using keys

The status of outputs can be changed directly using the **+** and **-** keys in the setup without using the Shift key.

1.4.2 Switch to next content cell

After activating the new option in the **Editor/Switch to next content cell after value change** dialog, the next valid content cell is automatically selected after changing a value in a content cell.

1.5 Motion API

1.5.1 Property MCAxisMovePtp.AbsModuloAutoKeepDirectionWhenInMotion

Extension of the Motion API 1.x and 2.x by the property MCAxisMovePtp.AbsModuloAutoKeepDirectionWhenInMotion property.

1.5.2 Motion API 2.x: Adjustments to commutation offset measurement

Extension of the DriveMotor.MeasureCommutationOffset(...) method to include an additional optional timeout parameter (default: 20000ms).

1.6 Oscilloscope

1.6.1 Duplicating an oscilloscope file

You can duplicate an oscilloscope file as follows:
1. Select the oscilloscope file
2. Open the context menu, e.g. via the right mouse button
3. Select the menu item Duplicate oscilloscope file.

The file name of the duplicate has the scheme, <previous file name>_copy<consecutive number>.[z]sxof.

1.7 EtherCAT

1.7.1 Showing the product code

The product code is now displayed on the device parameters page and in the hardware tree tooltip.

1.7.2 Display of module identifier

For a 3rd party EtherCAT module, the module identifier is displayed in the following places:

- In the dialog for adding new 3rd party EtherCAT modules
- In the configuration page for the 3rd party EtherCAT module
- In the hardware tree as a text part of the node

1.7.3 Name of the module

The name of the EtherCAT module is now also displayed in the parameters dialog.

1.7.4 Name EtherCAT device

In the “Previous address” field, the name of the corresponding EtherCAT device has been added after the address number.

2 Fixed Software bugs

This chapter describes the software bugs fixed in the new software release.

2.1 Editor

2.1.1 IntelliSense window size

The IntelliSense window did not scale to the size of the content.

2.1.2 Adjusting a format color to "Automatic"

The foreground and background color for certain elements is set under **Tools/Options/Format**. After setting a user-defined color and then resetting with **Automatic**, the color was not always set.

2.1.3 .NET framework error when calling the parameter info

If the parameter info was called up with **Ctrl+Alt+P** for a Motion API command, there was a .NET framework error in some cases.

2.1.4 Sequence of IntelliSense suggestions

The order of the IntelliSense suggestions was not optimal.

2.1.5 Compiler error due to ESI file

If an ESI file contained umlauts and special characters (üäöÜÄÖß°C°F etc.), the compiler issued an error.

2.1.6 Checking the init code

The size of the init code was not checked by the compiler for controllers without XL code and led to problems if the init code was larger than 64kB.

2.1.7 Umlauts in variable names

The compiler did not recognize umlauts in variable names, which should normally lead to a compiler error.

2.1.8 Double-clicking on a line in the call stack did not cause a jump

If a line of code was displayed in the call stack during debugging and you wanted to jump to this line in the STX code by double-clicking on it, this did not work.

2.1.9 Error with smart indentation and commenting of lines

If a line comment was added to a line that followed a line with a line comment, the line was incorrectly indented by one tab.

2.1.10 Comment with a full stop at the end

If a comment in an STX program ended with a full stop, the cursor could not be moved using the up or down arrow keys. The same problem also occurred with the **POS1** and **END** keys.

2.1.11 Automatic indentation was incorrect

If the Smart indent option was not set, it was not possible to adjust the indentation yourself. If a line was edited, its content was automatically indented again. If the Smart indent option was set, it was not possible to enter a slash for a comment without a desired indentation being automatically changed again.

2.1.12 Incorrect highlighting for compiler directives #if, #ifdef and #ifndef

If a file was included in more than one project in a workspace, the highlighting for the compiler directives **#if**, **#ifdef** and **#ifndef** in the editor could be incorrect.

2.1.13 Highlighting of identifiers incorrect

In the editor it could happen, that after double-clicking on an identifier, not all occurrences of the identifier in a line were selected.

2.1.14 Text marking IF Define

A selection of a block excluded from the compile process was not displayed correctly in the text editor.

2.1.15 IntelliSense with arrays

The IntelliSense did not work with arrays behind the square brackets if the index parameter of the array contained two or more dots.

2.1.16 Opening help with the F1 key

After opening options or project settings dialogs, the help could no longer be opened via the F1 key in the editor.

2.2 General

2.2.1 Project settings dialog was empty

If a workspace with several projects was closed and then another workspace with a project was opened or created, the already closed projects were still displayed in the project list in the project settings.

2.2.2 Project settings showed old projects

If a workspace with several projects was closed and then another workspace with a project was opened or created, the already closed projects were still displayed in the project list.

2.2.3 Search in files led to errors

The function **Search in files** led to an error message in large projects with many open files.

2.2.4 JetSym Version

The JetSym version was not written correctly to the workspace/project files.

2.2.5 A copied configuration generated error

If a configuration, e.g. **Main**, was copied and then changes were made, there appeared .Net errors.

2.2.6 Project folder was not cleaned up correctly

When changing the configuration and then compiling the project, the original controller file was not cleaned up. The number of controller files in the project folder kept increasing.

2.2.7 Multiple restart of a controller

If the timeout parameter was set to 5000ms, a controller restarted several times during an OS update and subsequent restart.

2.3 Setup and Monitor

2.3.1 Display of located variables

Some located variables were displayed incorrectly in the setup. This was the case if the workspace or JetSym was closed and then the same workspace with the same project was opened again.

2.3.2 Local arrays and structs were not displayed

Local arrays and structs were not displayed in the **Locals** tab in the monitor window.

2.3.3 Font size in setup after change

If the font size was changed in the setup under **Tools/Options/Format**, the font size stayed the same. After closing and reopening the setup, the font was much too large.

2.4 Hardware Manager

2.4.1 Error message during OS update JM-D203

After performing an OS update on an MC-JM-D203, an error message was displayed.

2.4.2 Serial interface with JC-9xx

The serial interface was incorrectly offered for selection on the JC-9xx controllers.

2.4.3 JX3-EI modules could not be selected at JX3-BN-CAN

The modules JX3-AI4-EI/EIC, JX3-THI2-RTD-EI and JX3-THI2-TC-EI/EIC could not be attached to a JX3-BN-CAN during hardware configuration.

2.5 2.5 STX

2.5.1 Initialization of arrays of type “Regstring”

The initialization of arrays of type “Regstring” did not work.

3 Important notes

3.1 Installating JetSym

To be able to license JetSym during installation, the JetSym installation program must be started from an admin user account.

3.2 .NET framework 4.7.2

This JetSym release requires a .NET framework 4.7.2.

3.3 CodeMeter runtime

As of version 6.0.0 JetSym does no longer require the CodeMeter runtime.

3.4 Motion API

To use the Motion API in the new UTF-8 with BOM format, JetSym version 5.7.2 or newer is required.

3.5 No support for TFS version control

As of this version, version control is no longer supported with TFS 2010/2017.