



JetSym
Version Update
from V2.31 to V2.40



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1 Introduction

Overview of Version Updates			
Version	Function	Added	Fixed
V2.40	IntelliSense for axis instruction dialog	✓	
	+/- key in the setup window	✓	
	Setup: Bit Number	✓	
	TIMER_END can be entered in the setup window as remaining time	✓	
	Immediate response in monitor mode to changes in IP address	✓	
	Monitor Mode: Monitor mode is terminated once the monitor window is closed	✓	
	ST: New keyword „break”	✓	
	Error handling for lines with a length of more than 2048 characters	✓	
	JetSym: new directives #else, #define, #undef, and #error	✓	
	GotoItem is now vertically centered in editors	✓	
	When transferring a program the paths are saved	✓	
	Displaying axis names in motion setup windows	✓	
	Faster communication in motion setup	✓	
	FTP passive mode in motion setup	✓	
	Find/replace function across several files	✓	
	Several axis commands in one line	✓	
	Printing out line numbers	✓	
	Entering values directly in the setup window	✓	
	MC support	✓	
	“End of Page” message when performing a search	✓	
	Mixed data areas in DA files	✓	
	Window position/size		✓
Umlauts in string variables		✓	
Large arrays in map files		✓	
Increased performance with large program files		✓	

Overview of Version Updates			
Version	Function	Added	Fixed
	Setting of background colors in setup/symbol editor		✓
	Scrollbar positioning when performing a search		✓
	Finding in files with lines exceeding 2048 characters		✓
	Error message when using different controllers		✓
	Setup inactive during OS update		✓
	Line number display in split mode		✓
	IntelliSense with mixed ST/Sympas projects		✓
	TIMER_END is now correctly displayed with all controllers		✓
	Updating the setup windows after build		✓
	Motion commands in split mode		✓

2 New Functions/Features

2.1 IntelliSense for axis command dialog

As it already has been implemented in text editors, IntelliSense is now available for axis command dialogs. For more information please refer to JetSym Online Help, keyword "IntelliSens".

2.2 Setup: +/- Key

If a numeral is displayed in the setup window, its value can be incremented/decremented by 1 using the +/- keys. When pressing the SHIFT key simultaneously, the value is incremented/decremented by 10, or by 100 when pressing CTRL. Once a binary value is displayed, the +/- keys can be used to set/reset an individual bit. The corresponding bit can be selected using the arrow keys (left/right).

2.3 Setup: Bit Number

If binary mode has been selected for displaying a value in the setup window and the cursor is placed on a bit, the current bit number of the cursor is displayed in the value field (e.g. „101.23“ = bit 23).

2.4 Setup: Remaining time for TIMER_END

If a value in the setup window is displayed as timer, the remaining time may now be entered as TIMER_END value.

2.5 Monitor Mode: Modifying the IP-Address

If the IP address of the controller is modified in the settings, these modifications will automatically be taken over in monitor mode.

2.6 ST: New keyword „break”

ST has been provided with a new keyword: break. When using break in CASE branches, defined constants are now allowed as branchings values at the end of each branch.

2.7 Error handling for lines with a length of more than 2048 characters

Lines with a length of more than 2048 will be wrapped. This is indicated to the user by a message which must be acknowledged.

2.8 JetSym: new directives #else, #define, #undef, and #error

The directives #else, #define, #undef, and #error are available in the program editor, as well as in the symbol editor. For more information refer to JetSym help.

2.9 GotoItem is now vertically centered in editors

When activating a text editor (e.g. by clicking the search result in the output window), the line to which the jump is made is positioned in the middle of the editor window.

2.10 When transferring a program the path is saved

When transferring a program, the path used last is saved as is already the case when transferring OS files. This approach makes transferring the same files to several controllers much easier.

2.11 Displaying axis names in motion setup windows

Now, the current axis name is displayed in the title bar of the motion setup window.

2.12 Faster communication in motion setup

Now, only such values which are presently displayed on the screen are read out of the controller.

2.13 FTP passive mode in motion setup

Now, FTP passive mode is used for communication with axes. This makes communication easier when firewalls are used.

2.14 Find/replace function across several files

Now, the match of a search word can directly be replaced by a new string. The lookup (and replace) function can be applied to the current document, the current project or to all projects of a workspace.

2.15 Several axis commands in one line

Now, axis commands can be used within the program text at any position. They are no longer restricted to one command per line. From this results, that the user himself has to enter a semicolon (;) required at the end of an axis command. This way, the readability of the program has been improved.

2.16 Printing out line numbers

This release allows printing of line numbers when printing out the program.

2.17 Entering values directly in the setup window

Now, values can directly be entered into the corresponding field without opening a dialog. To enable this option uncheck the checkbox "Change content with dialog" in the menu item Options/Editor. The new value is sent to the controller once the ENTER key is hit.

2.18 MC support

An extensive support of MC functions has been integrated. For more information refer to JetSym help.

2.19 "End of Page" message when performing a search

When performing a lookup in a document, a message appears now which indicates that the end of the page or the first match has been reached.

2.20 Mixed data areas in DA files

To use mixed data areas in DA files, the type „variant“ has been implemented. Mixed data areas may contain both integer and floating point registers. When transferring values, an analysis of the data type takes place. This way, the values can be saved in the same format as is used in the controller.

3 Fixed Software Bugs

3.1 Window position/size

When loading an existing project, the windows appear at the same position and in the same size they were positioned when the project was closed.

3.2 Umlauts in string variables

Umlauts are now correctly processed when using `DISPLAY_TEXT` commands.

3.3 Large arrays in map files

When using large arrays, creation of map files took considerable long time, since arrays were not treated in an optimized way. This resulted in long compiling times.

3.4 Increased performance with large project files

When editing large program files (> 10000 lines of code in one file), processing speed slowed down due to frequent calculations in the background. This problem has been fixed. This way, large files are processed with high performance.

3.5 Setting of background colors in setup/symbol editor

The background and text colors set in the options menu are now correctly displayed in the setup and in the symbol editor.

3.6 Scrollbar positioning when performing a search

When jumping to a text position, e.g. when doubleclicking a search result in the output window, the scrollbar is now correctly positioned.

3.7 “Find in files” with lines exceeding 2048 characters

If files were opened which contained lines with more than 2048 characters, these lines were automatically wrapped during search run. This wraparound could cause unwanted effects. Therefore, this function has been removed.

3.8 Error message when using different controllers

When using a controller other than the type specified in the settings the message „offline“ was displayed so far. This bug has been fixed. Now, the following message is displayed “different controller in use”.

3.9 Setup inactive during OS update

When the operating system of a controller is updated, this controller is prevented from reading setup data during that time. Once the update process is completed, setup continues working.

3.10 Line numbers in split mode

Line numbers were not correctly displayed in split mode in the program editor.

3.11 IntelliSense with mixed ST/Sympas projects

With mixed ST/Sympas projects Sympas functions were not always correctly displayed in IntelliSense. This bug has been eliminated.

3.12 TIMER_END is now correctly displayed with all controllers

The TIMER_END calculations have been revised for all controllers. This way, the end is now correctly displayed for all controllers.

3.13 Updating the setup windows after build

Now, after a build has been carried out all opened setup editors are refreshed. This way, possible changes in the program (e.g. a changed register number) are now immediately displayed in the setup window.

3.14 Motion commands in split mode

When using split mode, axis commands were inserted into the program at the wrong place. This bug has been eliminated.