



# **JetSym**

## **Version Update**

### **from V4.10 to V4.12**



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# 1 Introduction

Overview of Version Update			
Version	Function	expanded	corrected
V4.1.1	Object Model Expanded	✓	
	Shortcuts „Comment“ and „Uncomment“ Commands	✓	
	Adjusted Workbook View	✓	
	Bug-ID #662		✓
	No connection to a STX-Controller under Windows Vista®		
	Bug-ID #849		✓
	Frequent Interruption of the Ethernet Communication		
	Bug-ID #838, #857 sowie #872		✓
	Various Errors with Motion Setup		
	Bug-ID #796		✓
	Double and Triple Entries in Function View		
	Bug-ID #807, #845, #846, #854, #856, #805 und #809		✓
	Problems at Change of Controller in Hardware Manager		
	Bug-ID #866		✓
	Display of program code inactive		
	Bug-ID #731		✓
	Value display in monitor mode with the controller offline		
	Bug-ID #821		✓
	Digit in front of a motion command causes it to be invisible		
	Bug-ID #865		✓
	Replacements in a selected text work does not work properly		
	Bug-ID #781		✓
	Deletion of structure and array variables in setup window		
	Bug-ID #737		✓
	Wrong Address Calculation in Monitor Window (STX)		
	Bug-ID #789, #792		✓
	Context Menu in Hardware Tree		

	Bug-ID #790	✓
	Changing the Settings of an Axis Group	
	Bug-ID #794	✓
	Intellisense of Struct Elements	
	Bug-ID #808	✓
	Loosing Focus after Closing Motion Command's Dialog	
	Bug-ID #814, #839	✓
	Crash after Adding a JetMove	
	Bug-ID #818	✓
	IP-Address not completely visible in Address Field	
	Bug-ID #732	✓
	JetSym freezes shortly during Oscilloscope Recording	
	Bug-ID #736	✓
	Program Download using serial Interface	
	Bug-ID #826	✓
	Missing „MC-Global“ after Opening a Project for the first Time	
	Bug-ID #828	✓
	Error at Creation of a MC axis	
	Bug-ID #882	✓
	Deletion of a Project while CPU Window is open	
	Bug-ID #884	✓
	No 8 Axis possible with JetControl248	

## 2 Expansions

### 2.1 Object Model Expanded

The object model of JetSym is now expanded by a few additional functions. It is now possible to implement a wizard program, which creates and configures projects, configurations as well as documents.

### 2.2 Shortcuts „Comment“ and „Uncomment“ Commands

Both commands „Comment Selection“ and „Uncomment Selection“ can now be called using the shortcuts „Alt+Shift+C“ and „Alt+Shift+U“.

### 2.3 Adjusted Workbook View

The workbook view is now adjusted to run with the hardware manager. The tab used to display the complete path of the hardware manager tree, which is now not the case anymore. Additionally all documents belonging to the active project are now displayed with bold and all others are shown with grayed letters.

## 3 Eliminated Software Bugs

### 3.1 No connection to a STX-Controller under Windows Vista®

Platform: JetSym Bug-ID #662

Running the PC under operating system Windows Vista® it was not possible to establish a connection to a STX controller while the windows firewall was switched on.

### 3.2 Frequent Interruption of the Ethernet Communication

Platform: JetSym Bug-ID #849

If the Ethernet communication to a STX controller was interrupted several times by unplugging the network cable, then it could happen that instead of the variable values the error text „Invalid function“ was displayed.

### 3.3 Various Errors with Motion Setup

Platform: JetSym Bug-ID #838, #857 sowie #872

Implementing the following SCARA configurations caused the creation of an incorrect program code: Shoulder, elbow, wrist.

On page “Amplifier” the PWM frequency was displayed in a list box. Configuring some drives it is possible to alter this parameter, while with some other drives it should not be possible to alter it. But this was the case as soon as the controller was offline.

Editing motion command “MotionWriteParameter” with a SCARA not having the standard configuration (shoulder, elbow, wrist, z-axis) did not show the entry of the arm length.

At a SCARA including less than four axis the arm length was not displayed and therefore could not be altered. Additionally the corresponding parameters were not taken over at the creation of an initialisation file.

### 3.4 Double and Triple Entries in Function View

Platform: JetSym Bug-ID #796

Looking at the function view it could happen the some functions had double or triple entries. As soon as it was clicked on one of these multiple entries, JetSym was terminated.



### **3.5 Problems at Change of Controller in Hardware Manager**

Platform: JetSym Bug-ID #807, #845, #846, #854, #856, #805 und #809

There were several bugs detected when a controller type was changed inside the hardware manager. For example the dirty bit was not implemented properly or the windows were not updated correctly. All these bugs should now be removed.

### **3.6 Display of program code inactive**

Platform: JetSym Bug-ID #866

Inactive program code was not displayed correctly at all times. This could happen especially if compiler switches were located in include files.

### **3.7 Value display in monitor mode with the controller offline**

Platform: JetSym Bug-ID #731

Up to now as soon as a controller went offline, the monitor window displayed the last variable values read successfully. Now the string "???" is displayed the same way it is implemented inside the setup window.

### **3.8 Digit in front of a motion command causes it to be invisible**

Platform: JetSym Bug-ID #821

If a digit was entered directly in front of a motion command, then the command itself vanished from the program editor. A double click on the command now invisible always resulted in a script error message.

### **3.9 Replacements in a selected text work does not work properly**

Platform: JetSym Bug-ID #865

The last line of a selected text block was overlooked occasionally when an attempt was made to replace a text sequence by another inside it.

### **3.10 Deletion of structure and array variables in setup window**

Platform: JetSym Bug-ID #781

If a structure or array variable displaying its members or indices values was deleted, then these values mistakenly remained visible in the setup window.

### **3.11 Wrong Address Calculation in Monitor Window (STX)**

Platform: JetSym Bug-ID #737

If a STX function had a pointer to a register structure as one of its parameters, which also includes a string member, then wrong values were displayed in the monitor window caused by a wrong address calculation.

### **3.12 Context Menu in Hardware Tree**

Platform: JetSym Bug-ID #789, #792

Changing focus to a setup window after a context menu had been opened in the hardware tree did not close the menu as it should do. So it remained visible.  
If a configuration was set active using the context menu of the hardware tree, then the combo box in the toolbar was not updated. Besides this it was not possible to activate the configurations of all inactive projects.

### **3.13 Changing the Settings of an Axis Group**

Platform: JetSym Bug-ID #790

The name of an axis group was changed followed by altering some of its settings. Now the hardware tree mistakenly took over the previous name again.

### **3.14 Intellisense of Struct Elements**

Platform: JetSym Bug-ID #794

If a data type name began with a STX program code keyword like „struct“ then Intellisense did not offer the struct or index members for selection.

### **3.15 Loosing Focus after Closing Motion Command's Dialog**

Platform: JetSym Bug-ID #808

The program editor did not regain the focus after a motion command had been created or edited over its dialog.

### **3.16 Crash after Adding a JetMove**

Platform: JetSym Bug-ID #814, #839

JetSym crashed as soon as a JetMove had been added to a JetControl350 or JetControl970 in the hardware manager.

### **3.17 IP-Address not completely visible in Address Field**

Platform: JetSym Bug-ID #818

Using a certain type size caused the effect that the IP address was not visible completely in the parameter settings window of the hardware manager. Then very often the user was unable to alter the fourth byte of the IP address.

### **3.18 JetSym freezes shortly during Oscilloscope Recording**

Platform: JetSym Bug-ID #732

If the monitor mode was activated or deactivated during recording samples for the oscilloscope, then JetSym froze for a short while.

### **3.19 Program Download using serial Interface**

Platform: JetSym Bug-ID #736

The download of a ST program to a JetControl24x or JetControl64x failed when using the serial interface.

### **3.20 Missing „MC-Global“ after Opening a Project for the first Time**

Platform: JetSym Bug-ID #826

A MC-project created by a previous version of JetSym was opened for the first time with JetSym 4.1. "MC-Global" was then missed in the hardware manager as well as in the setup tab. The projects needs to be closed and reopened again to get it back.

### **3.21 Error at Creation of a MC axis**

Platform: **JetSym Bug-ID #828**

After creating a new MC axis the combo box „Execution/Modulo/Direction“ was empty when running JetSym with german resources. Closing and reopening the project cured this misbehaviour.

### **3.22 Deletion of a Project while CPU Window is open**

Platform: **JetSym Bug-ID #882**

A project was deleted while its controller definition window of the hardware manager is still open. All files of the project to be deleted were removed from the hard disk. If the user then called command "Save All" then JetSym crashed.

### **3.23 No 8 Axis possible with JetControl248**

Platform: **JetSym Bug-ID #884**

In the hardware manager it was not possible to add 8 axis to a JetControl248, even this is technically possible.