JetSym 5.6.0

Features and Improvements

Release 5.6.0 of JetSym brings numerous features and improvements which make engineering your automation projects even more convenient and safe.

OPC UA Server

Jetter's new controller generations can optionally be equipped with an OPC UA server. JetSym 5.6.0 provides a particularly convenient interface for configuring the server. For example, the desired variables can be enabled/disabled for publication with just one click.

Furthermore, the OPC UA Server also supports the publishing of functions that are filled with values from the client. The function itself is then executed on the OPC UA server side and the result value is returned to the OPC UA client.

In addition to anonymous access, the OPC UA server can also be configured so that the client must authenticate itself to the server using a login name and password. In addition, the Jetter's OPC UA server uses industry-accepted security standards, such as X.509, to ensure secure communication.

More safety in engineering

Optionally, projects can be provided with a new security mechanism. If a program is downloaded to the controller, the system provides a safety message with information about the program currently available on the controller. This means that the name of the controller, its IP address and the name and time stamp of the program are displayed. Users can thus better assess whether the program download should be permitted to the desired target controller.
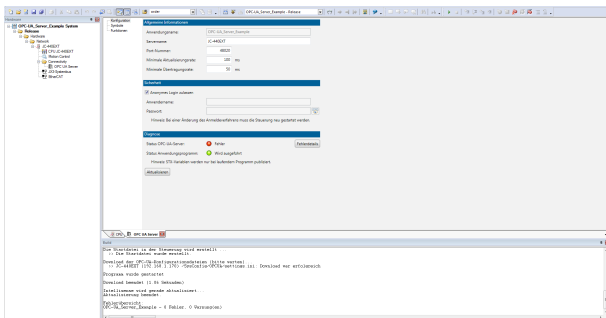
To prevent the message from appearing every time a download is to be performed, it can be optionally muted until the next project or configuration change.
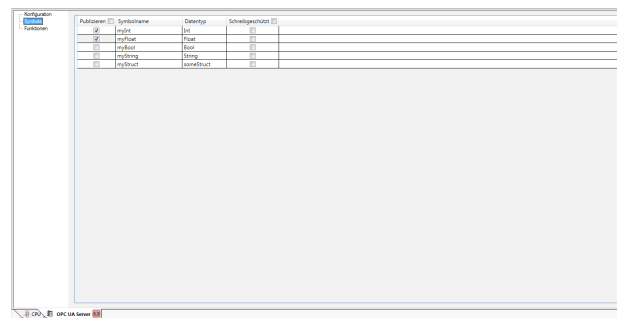
Interface to SIMIT Simulation Software

The new release provides a connection to the widely used simulation software SIMIT by Siemens. Using a shared memory interface in combination with a configuration file generated from within JetSym, real-time information such as the latest axis positions and states of inputs and outputs can be transferred to SIMIT. In SIMIT, the data is finally used for 3D-animated virtualization of the movement of machines and their components.

More User-Friendly Diagnostics

The new release also contains numerous small improvements in usability which significantly improve the ease of use in your daily work with the software. For example, in the case of diagnostics: It is now possible to simply move set breakpoints to another position with the mouse. In addition, when creating trace points, the previously required detour via the creation of a breakpoint is no longer required.

Configuration of the OPC UA server

Variable selection of the OPC UA server

Trace points can now be created directly at the desired location in the code. The following feature is particularly convenient: If the position of the cursor is on a simple variable when the corresponding function is called, the output text of the trace point is automatically preconfigured with placeholders for the variable name and its value.

JetSym has also been optimized in the field of setup: Lines with pointer expressions had to be updated

manually. There is now the option to automatically resolve these entries.

In addition, expressions containing pointers are displayed in italics for better visibility.

Finally, the behavior of delete operations in the Setup, Declaration Editor, and STXDA file areas has been adapted to common Microsoft Excel operating standards.

All the new features at a glance

Editor	- Dragging breakpoints by moving the mouse - Indentations for Autotext with tab stops - Direct and easy creation of preconfigured trace points
Setup	- Automatic resolution of expressions with pointers - Expressions with pointers are displayed in italics - Delete operations have been adapted to Microsoft Excel
Motion API	- New Touch Probe functionality - New torque off functions - Motion API has been updated to version 2.0.0.4
Motion Setup	- New box for entering comments for axes and axis groups - Extended selection of temperature sensors - Updated motor database
General information	- Optional prompt when downloading programs - Export of configuration files for Siemens SIMIT is now supported
STX	- Introduction of navigation marks in the code editor - New file functions FileTell and FileSeek
Hardware Manager	- New Connectivity node with configuration interface for OPC UA Server - Support for new JC-975MC, JC-440EXT, and JX3-BN-EC hardware - New interface for configuring the JX3-BN-EC bus node