

**NO:** PC-323  
**DATE:** April 2016

**PRODUCT:** Sysmac Studio Version 1.15  
**TYPE:** Modification Notice

## Sysmac Studio Updated to Version 1.15 (SYSMAC-SE200D)

*New version contains expanded product capabilities and significant bug fixes*

**Effective date:** April 2016

**Affected Part:** SYSMAC-SE200D

There is no modification in SYSMAC-SE2□□L, SYSMAC-VE001L, SYSMAC-NE001L, or SYSMAC-ME00□L because they are license certificates.

Listed below are key changes from the previous version 1.14 followed by a detailed update of changes available in Version 1.15. This update will be available via Auto Updates.



### Highlights

- Support for Windows 10 operating system



- Adept Robot Controllers are supported as a configurable device



- Support for NJ/NX series CPUs with Firmware version 1.11
- Support for NX I/O modules, Temperature controller, Displacement sensors and Vision sensors

# Detail of Differences

## Changes

Before the change	After the change
<p>The functions on the right were not provided.</p>	<p><b>Sysmac Studio Ver.1.15</b></p> <p><b>Support for the following CPU Units.</b>            *NJ701 CPU Units Ver. 1.11            *NJ501 CPU Units Ver. 1.11            *NJ301 CPU Units Ver. 1.11            *NJ101 CPU Units Ver. 1.11</p> <p><b>Support for the following Units.</b>            *Modular Temperature Controller: EJ1N-HFUC-ECT            *NX-series NX Units: NX-PG02□□, NX-PG03□□            *ZW-7000-series Confocal Fiber Displacement Sensor: ZW-7000□            *FH-series Vision Sensor: FH-1□□□, FH-3□□□ Ver. 5.60</p> <p><b>Support for FH Series Ver. 5.60.</b>            *Support for FH-SM05R/FH-SC05R 5M Cameras.</p> <p><b>Support for Adept Robot Controllers as a configurable device in the EtherNet/IP Connection Settings.</b></p>
	<p><b>[New functions]</b>            *Support for Windows 10.            *Provided a function to specify where the right bus bar should be displayed in the Ladder Editor.            *Support for auto startup of Japanese IME when editing variable comments in the variable tables and Ladder Editor.            *Provided a function to directly specify variables in the Cross Reference tab page.            *Provided a function to automatically close the tab page that has not become active for the longest time when the maximum number of tab pages is exceeded by opening a new tab page.</p> <p><b>&lt;Related to Displacement Sensors&gt;</b>            *Provide function to edit the configuration of ZW-7000 Series.</p> <p><b>&lt;Related to Safety&gt;</b>            *Support for simple automatic test function with the offline simulator.            *Added the following functions in the Safety Slave Unit Parameter Settings view.            *Easy switching between the setting views of each Unit.            *Settings of the ESTOP pushbutton and Safety Light Curtain and other devices.            *Display of contacts/wirings of devices            *Copy &amp; paste of devices            *Support for jump function to the next/previous variable from the context menu displayed in the FBD Editor.            *Provided a function to add user-defined FB and data type conversion instructions from the Toolbox in the FBD Editor.            *Added an option to print the safety signature code in the Print Setup view.</p>

## Changes (continued)

Before the change	After the change
<p><b>The functions on the right were not provided.</b></p>	<p><b>[Improved functions]</b></p> <ul style="list-style-type: none"> <li>*Improved so that variable comments can be edited in the Ladder Program during online editing.</li> <li>*Improved so that the section name is displayed in the title of ladder diagrams in the detailed comparison view of online comparison.</li> <li>*Shortened the startup time of the Measurement Sensor, Drive, and HMI Editions.</li> <li>*Solved the problem that the contents of the displayed variable comments were not unified.</li> <li>*Solved the problem that the cursor returned to the previous edit position if the view was scrolled and another location was selected while editing a variable in the Ladder Editor.</li> <li>*Solved the problem that the list of cross reference became incorrect after replacing a variable in a ladder diagram.</li> <li>*Improved so that the display height of the detailed information can be changed in the Troubleshooting Dialog Box.</li> <li>*Improved so that the number of samples can be changed in the data trace operations.</li> <li>*Solved the problem that the data might not be printed properly if the rungs were wrapped.</li> <li>*Improved the EtherCAT Diagnosis/Statistics Information tab page so that EtherCAT configuration diagram and error frame information can be displayed in a single tab page.</li> <li>*Improved so that the present values of retainable member and element variables can be retained when a retained structure/union variable member or a retained array element member is added, deleted, or changed and then transferred to the Controller. (CPU Unit with unit version 1.11 or later)</li> <li>*Improved so that other groups are not collapsed when a group is expanded.</li> <li>*Added the Expand All and Collapse All commands to the context menu of Toolbox so that all groups can be expanded/collapsed at the same time.</li> </ul> <p><b>&lt;Related to Displacement Sensor&gt;</b></p> <ul style="list-style-type: none"> <li>*Separated the sensing monitor view from each edit view.</li> <li>*Improved the main view, sensing monitor view, bank data edit view, system data edit view, and print view can be opened at the same time.</li> <li>*Improved the visibility of edit views by changing the parameter area to a list form.</li> <li>*Improved the axis scale so it is static in the trend monitor.</li> <li>*Added a function to output setting parameters to a CSV file.</li> </ul> <p><b>&lt;Related to Safety&gt;</b></p> <ul style="list-style-type: none"> <li>*Solved the problem that starting up the offline simulator might fail.</li> <li>*Solved the problem that programs might not match when opening a project after safety validation.</li> <li>*Solved the problem that a build error might occur when importing an old configuration file of a Safety Control Unit.</li> <li>*Solved the problem that variable tables could be edited and projects could be imported/exported while online.</li> </ul>

## Changes (continued)

Before the change	After the change
<p><b>The functions on the right were not provided.</b></p>	<p><b>[Improved functions]</b>  <b>&lt;Related to HMI&gt;</b>            *Solved the problem that a build error might occur in the projects created with Sysmac Studio version 1.13 or lower.            *Solved the problem that the software temporarily froze when operating an object.            *Solved the problem that a build error occurred after executing a replacement operation even if the view looks no problem.</p> <p><b>Runtime Functions</b>            *[Runtime] Solved the problem that external variable values did not match the values in the Controller in high-load projects.            *[Runtime] Solved the problem that NA's performance might be lowered during online editing of the Controller.            *[Runtime] Solved the problem that the view might not be refreshed when a structure was assigned to a data input object on the tab control.            *[Runtime] Solved the problem that text of a toggle button was not displayed correctly the first time the tab control was displayed.</p>
	<p><b>[Manual]</b>  <b>Added/Updated the following manuals.</b>            *Displacement Sensor ZW-7000 series Confocal Fiber Type Displacement Sensor User's Manual            *Displacement Sensor ZW-7000 series Confocal Fiber Type Displacement Sensor User's Manual for Communications Settings            *Sysmac Studio Version 1 Operation Manual            *NJ/NX-series CPU Unit Software User's Manual            *NJ/NX-series CPU Unit Motion Control User's Manual            *NJ/NX-series CPU Unit Built-in EtherCAT Port User's Manual            *NJ/NX-series CPU Unit Built-in EtherNet/IP Port User's Manual            *NJ/NX-series Motion Control Instructions Reference Manual            *NJ/NX-series Instructions Reference Manual            *NJ/NX-series Troubleshooting Manual            *NJ-series CPU Unit Hardware User's Manual            *NX-series CPU Unit Hardware User's Manual            *NX-series Safety Control Unit User's Manual            *NX-series Safety Control Unit Instructions Reference Manual            *Vision System FH Series Operation Manual for Sysmac Studio</p>

Specifications in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.