

Modifications Notices

Machine Automation Controllers

Issue Date
September, 10, 2022

No. W-220804

Modification notice of version upgrade (Ver.1.52) of Automation Software Sysmac Studio (SYSMAC-SE200D and SYSMAC-SE200D-64)

[Effective Date]

SYSMAC-SE200D (32bit)

Effective as of our production on October 27, 2022.

SYSMAC-SE200D-64 (64bit)

Effective as of our production on October 19, 2022.

[Applicable Model]

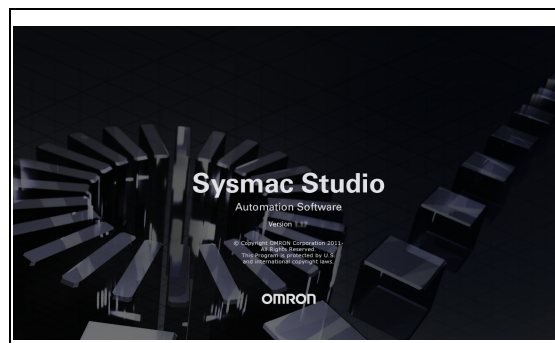
SYSMAC-SE200D

SYSMAC-SE200D-64

(There is no modification in SYSMAC-SE2□□L, SYSMAC-VE0□□L,

SYSMAC-ME0□□L, SYSMAC-NE0□□L, SYSMAC-DE0□□L,

SYSMAC-FE0□□L, SYSMAC-TA4□□L or SYSMAC-SA4□□L, because they are license certificates.)



[Reason for change]

- To adopt upgraded products.
- With the end of support for Microsoft's .NET Framework 4.6.1, Windows 8 which not supporting .NET Framework 4.6.2 and later will be excluded from the System Requirements.

[Change of products specification]

Unnecessary

[Changes]

Before the change	After the change
Sysmac Studio Ver.1.50 or older [System Requirements: Operating System] SYSMAC-SE200D (Sysmac Studio (32 bit)) Windows 7 SP1 (32-bit or 64-bit edition) *1 Windows 8 (32-bit or 64-bit edition) Windows 8.1 (32-bit or 64-bit edition) *2 Windows 10 (32-bit or 64-bit edition) Windows 11 (64-bit edition) SYSMAC-SE200D-64 (64 bit) Windows 10 (64-bit edition) Windows 11 (64-bit edition)	Sysmac Studio Ver.1.52 [System Requirements: Operating System] SYSMAC-SE200D (Sysmac Studio (32 bit)) Windows 7 SP1 (32-bit or 64-bit edition) *1 Windows 8.1 (32-bit or 64-bit edition) *2 Windows 10 (32-bit or 64-bit edition) Windows 11 (64-bit edition) SYSMAC-SE200D-64 (64 bit) Windows 10 (64-bit edition) Windows 11 (64-bit edition)

*1: Windows 7 Update (KB4474419 and KB4490628) must be applied to the OS.

*2: Windows 8.1 Update (KB2919355) must be applied to the OS.

[Changes]
<Changes of Sysmac Studio Ver.1.52>

Before the change	After the change
The functions on the right were not provided in Ver.1.50 or older.	Sysmac Studio Ver.1.52 [Support of New Type] - Support the following Controllers: NJ101 Controller Ver. 1.50 NJ301 Controller Ver. 1.50 NJ501 Controller Ver. 1.50 NX102 Controller Ver. 1.50 NX1P2 Controller Ver. 1.50 NX701 Controller Ver. 1.29 [New Functions] <Controller> - It is possible to set a POU data protection version for a controller. - For estimating execution time, calibration is available for a currently selected controller in the project. [Improved functions] <Controller> - IEC62714 AutomationML Import supports NX-ECT101 units. <Safety> - Solved the problem that toggling the case of a variable name temporarily hid the variable in the exposed variable table. - Solved the problem that adding a device while opening more than one Safety IO Settings tab page might force the termination of Sysmac Studio. - Solved the problem that opening the context menu of an FSoE slave unit that did not exist in a standard controller caused a .NET Framework error. <HMI> - Solved the problem that a value, not an IP address, was configurable in an NTP server. - Solved the problem that a drag-and-drop of a ladder circuit part onto an IAG project terminated Sysmac Studio abnormally. - Solved the problem that a copying and pasting of an object might display an unnecessary conflict resolving window. - Improved the problem that scale names were case-sensitive at an upload, etc. - Solved the problem that in a project whose Runtime version was 1.11 or higher, showing the property of an object included in an IAG object might terminate Sysmac Studio abnormally. - [Runtime] Solved the problem that an alarm might not rise even when a conditional expression was met in the Alarm Viewer. - [Runtime] Solved the problem that if a user logged in before an operation, the user unintentionally logged out before a set period passed.

[Changes]
<Changes of Sysmac Studio Ver.1.52>

Before the change	After the change
The functions on the right were not provided in Ver.1.50 or older.	Sysmac Studio Ver.1.52 [Improved functions] <Robot Integrated CPU Unit> - In the V+ variable editor, added the description on the column [Value] for V+ variables under online connection. - It is possible to transfer only sequence control programs to the controller if it does not affect the RobotControlSettings section. - Copying and pasting between the V+ variable editor and external software are available. - Sysmac Studio displays a warning message regarding saving to the controller at an attempt of [Push to V+ Memory]. - CAD data are shown transparently. - It is possible to select the version of Application Manager to be created while Application Sample Wizard is performed. - Added functions that read and write arrays to Shape Script Default Functions. - Solved the problem that adding a robot using Compare and Merge with Actual Network Configuration might disable assigning the robot to Robot Settings. - The tooltip shows the description of the speed setting field in Part Motion Settings of Custom Mechanics. - Solved the problem that V+ Jog Control might be disabled after power-cycling a robot and reset the controller error. - Updated the ACE manual.

[Changes]

<Changes of Sysmac Studio Ver.1.50>

Before the change	After the change
The functions on the right were not provided in Ver.1.49 or older.	Sysmac Studio Ver.1.50 [Support of New Type] - Support the following NX unit (EtherCAT slave unit): NX-ECT101 Ver.1.0 - Support the following Controllers: NJ101-1□00 Controller Ver.1.49 NJ101-1□20 Controller Ver.1.49 NJ301-1□00 Controller Ver.1.49 NJ501-1□00 Controller Ver.1.49 NJ501-1□20 Controller Ver.1.49 NJ501-1340 Controller Ver.1.49 NJ501-4□□0 Controller Ver.1.49 NJ501-5300 Controller Ver.1.49 NJ501-R□□0 Controller Ver.1.49 NX102 Controller Ver.1.49 NX1P2 Controller Ver.1.49 NX701Controller Ver.1.29 - Support the following OMRON robots connectable to NJ501-R□□0 Controllers: EtherCAT (NJ501-R) compliant version of i4-350L, 450L, and 550L [New functions] <Controller> - It is possible to create a controller configuration and assign variables and IO by importing an AML file that created with the electric CAD software, EPLAN Electric P8. - Added the following security features: User authentication TCP/UDP port close Packet filter Secure communications - Added the function exporting event settings for the event log utility of SYSMAC Gateway. <Robot Integrated CPU Unit> - Added the function applying the same configured V+ version to both a Robot integrated CPU Unit and OMRON robot whose V+ versions are different. - TIO input and output are available in i4L/i4H robots.

[Changes]
<Changes of Sysmac Studio Ver.1.50>

Before the change	After the change
The functions on the right were not provided in Ver.1.49 or older.	Sysmac Studio Ver.1.50 [Improved functions] <Controller> - Solved the problem that when a variable was shared in devices, selecting Comment 2 from the Select comment drop-down was not reflected in the shared variable's comment correctly. - Solved the problem that Sysmac Studio misdetected a large-size project overwritten by the Version Control function as data edited from outside. - Solved the problem that cross referencing was inoperable during online editing. - Solved the problem that using a function or function block containing the range-specified data type in input/output/in-out variables in an ST program caused a build error. - Solved the problem that [To Lower Layer] might not be enabled in a user-defined function where a name space was set. - Solved the problem that an in-out variable for a function or function block could not be moved to the internal variable group. - Solved the problem that the IEC61131-10 XML Import function might not import an XML file when a comma (,) was used as a decimal point in the Windows Location settings. - Solved the problem that a device variable assigned to a node port in the I/O Map could be moved from a variable table to another one. - Solved the problem that if more than one library had a POU with the same name, and the option whether includes the POU or not was configured differently, the POU might be unavailable. - Solved the problem that when adding a PDO entry on PDO Map Settings, all device variables of PDO entries are unassigned. <Safety> - Solved the problem that uploading ([Transfer from Controller]) a Safety CPU Unit program that contains the 1S series Servo Drive might terminate Sysmac Studio abnormally. - Solved the problem that Sysmac Studio might abend while editing a program on the FBD editor. - Solved the problem that after sorting exposed variables in the global variable table, sorting a column in different variable table might terminate Sysmac Studio abnormally. <HMI> - Solved the problem that a direct copy-and-paste the CX-Programmer variables to the device variable table was not available. - [Runtime] Support the secure communications with NJ/NX series CPU Units.

[Changes]

<Changes of Sysmac Studio Ver.1.50>

Before the change	After the change
The functions on the right were not provided in Ver.1.49 or older.	Sysmac Studio Ver.1.50 [Improved functions] <Robot Integrated CPU Unit> - Shape Script Default Functions can be updated to the highest version that Sysmac Studio has. - Solved the problem that a wrong error message might appear at a mis-configuration of Robot Vision Manager in Application Manager. - Solved the problem that a V+ variable value might return after an upload of a project from a Robot Integrated CPU Unit. - Solved the problem that the Synchronisation window of RobotControlSettings might hide behind the main window. - Solved the problem that pressing the Here button on the V+ Jog Control pane might not register a variable to location variables. - Solved the problem that a message saying "Robot not attached to this program" might appear for a program with a robot registered. - Corrected the Viper CAD data. - Solved the problem that importing a project file caused a controller mismatch on the Synchronisation window in Application Manager. - Solved the problem that the Synchronisation window did not show a mismatch after editing a specific property of AnyFeeder. - Solved the problem that a comma-separated numeric value entered in the mechanical component setup tab page was set without the comma. - Corrected the wrong orientation of i4H's tool flange in the 3D simulator. - Solved the problem that Sysmac Studio might abend while uploading an Application Manager. - Solved the problem that an error appeared when adding an OMRON Sentech camera.

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.