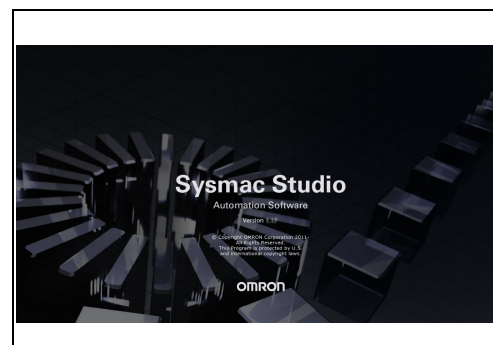# PRODUCT NEWS

OMRON

Modification Notice

Modification Notice of version upgrade (Ver.1.56).

[Target Products]

Machine Automation Controllers   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-64,
because they are license certificates.)

< Refer to the " **[Details of applicable model]** " . >

[Effective Date]

SYSMAC-SE200D (32bit)
Effective as of our production on November 9, 2023.
SYSMAC-SE200D-64 (64bit)
Effective as of our production on November 1, 2023.

[Reason for change]

To upgrade of products

OMRON

[Changes]
<Changes of Sysmac Studio Ver.1.56>

Before the change	After the change

The functions on the right were not provided in Ver.1.55 or older.	**Sysmac Studio Ver.1.56**
	
	[Support of New Type]
	- Support the following Controllers:
	    - NJ101 Ver.1.64
	    - NJ301 Ver.1.64
	    - NJ501 Ver.1.64
	    - NX102 Ver.1.64
	    - NX1P2 Ver.1.64
	    - NX502 Ver.1.64
	    - NX701 Ver.1.35

[Changes]

<Changes of Sysmac Studio Ver.1.56>

Before the change	After the change
The functions on the right were not provided in Ver.1.55 or older.	**Sysmac Studio Ver.1.56** **[New functions]** **<Controller>** - Support the OPC UA for PackML 1.01 specifications. (SYSMAC-XR101, Sysmac Library OPC UA PackML Library required) - Support CIP Safety communications via the built-in EtherNet/IP port of the NX502 CPU Unit. (Project unit version Ver. 1.64 or later) **<Safety>** - Support CIP Safety connection settings with the built-in EtherNet/IP port of the NX502 CPU Unit. **<Drive>** - Support Advanced Auto-Tuning function.

[Changes]

<Changes of Sysmac Studio Ver.1.56>

Before the change	After the change
The functions on the right were not provided in Ver.1.55 or older.	**Sysmac Studio Ver.1.56** **[Improved functions]** **<Common to Sysmac Studio>** - Solved the problem that variables might not be monitored immediately after upload. - Revised the message displayed when the Reset All button for Troubleshooting is pressed while a coupler is directly connected. - Solved the problem that a double-click could not open a project file stored in a folder allocated to a network drive. **<Controller>** - The item Role is now available in OPC UA Security Settings. - Added a new security policy for OPC UA Security Settings. - Solved the problem that the Simulator would not start when a pulse output unit and digital input unit on the NX Bus were assigned to a servo axis in the Simulator. - Solved the problem that an encoder axis's actual position calculated with SIM_SetVelocity instruction did not become 0 or less in the Simulator. This response solved the problem that an initial value of the absolute encoder did not become 0. - Solved the problem in the Simulator that a major fault occurred due to "Illegal User Program/Controller Configurations and Setup" when the retained variable memory usage in NX502 exceeded 2MB (50%). **<HMI>** - Solved the problem that Sysmac Studio might terminate abnormally when performing a replacement of recipes. - Solved the problem that changing a controller name immediately after opening a project was not reflected in the HMI. - Solved the problem that copying and pasting device data other than HMI while a page was opened might cause an error. - [Runtime] Solved the problem that short lines did not edge when two or more lines of text were left-aligned or right-aligned on a lamp object. - [Runtime] Solved the problem that objects under IAG might be displayed with a different font size from the setting when TabControl and IAG have objects with the same name. - [Runtime] Solved the problem that E_PAG_011 might occur when screens were switched with a button release event while a pop-up page was being displayed. - [Runtime] Solved the problem that E_COM_001 might occur in Soft-NA depending on the IP address of a communication destination during secure communications with a controller.

[Changes]
<Changes of Sysmac Studio Ver.1.55>

Before the change	After the change

The functions on the right were not provided in Ver.1.54 or older.	**Sysmac Studio Ver.1.55**
	
	[Support of New Type]
	 - Support the following Controller:
	   - NX502 Ver.1.63"
	
	 - EtherNet/IP Connection Setting supports the following new target device:
	   - Laser Scanner OS33C-CS-5M
	
	[New functions]
	<Common to Sysmac Studio>
	- Added a function to manage projects by file.
	- Added functions to import and export the option settings.
	- Version control is available for projects on which POU data protection is enabled.（POU data protection version 2.0 or higher)
	- Referenced elements are kept in history, and selecting an element to reference from the history is possible.
	
	<Controller>
	- Added the Ladder Editor Guide.
	- The variable name suggestion function in Ladder Editor also displays variable comments.
	- The instruction suggestion function in Ladder Editor also displays instruction names and descriptions.
	- Added a function to display the shortcut key list for Ladder Editor.
	- Added a function to copy a rung pattern in a ladder program.
	- Added these items to the Color Selection option of Ladder Editor: AT specification variable background color and network variable background color.
	- Automation Playback can be enabled and two settings are available in collection settings.
	- Fetching a log of the collected variable values through Automation Playback from the Controller and playing it with a video on the monitor view in Sysmac Studio is possible.
	- Added a function to search for rungs that cause an output and display them in the tree structure on Ladder Editor.
	- Import of differences between an AML file and project is available in AutomationML Import.
	- Restoring an EtherCAT network topology is possible in AutomationML Import.

OMRON

[Changes]
<Changes of Sysmac Studio Ver.1.55>

Before the change	After the change
The functions on the right were not provided in Ver.1.54 or older.	**Sysmac Studio Ver.1.55** **[Improved functions]** **<Common to Sysmac Studio>** - An element in the list under Cross Reference that corresponds to the selected variable in a program is highlighted. - Changed default values for the following items in Option Settings: Ladder Editor, ST Editor, Program Check/Build, Variables, Comments for Variables and Data Types, and Safety. - Memory Usage provides detailed information. **<Controller>** - Commets on system-defined variables and data types are shown on a ladder program. - A ladder program with a rung containing connect lines only does not cause an error when the controller unit version in the program is 1.63 or later. - Solved the problem that the SD memory card instruction DirRemove did not work correctly in the simulator. - Solved the problem that the NX102 simulator could not execute 60 SktTCPConnect instructions simultaneously. - Solved the problem in NX502, a variable, which used a structure or array and the size was 4 MB to 8 MB, caused an error. **<HMI>** - Improved the message that appears when the Simulator is booted doubly. - Solved the problem that fonts in an IAG were not replaced correctly. - Solved the problem that unnecessary errors might be output in a log while Page Explorer was displayed. - [Runtime] Solved the problem that in Soft-NA, setting to the Input Prohibited Mode with the EnableInputOperation action or function while pressing the Feedback button might hold the button ON on a pop-up page. - [Runtime] Solved the problem that a long press on a Tab Control in Soft-NA worked as a right-click. - [Runtime] Solved the problem that under a specific state of communication, a communication error might be displayed periodically while Sysmac Studio was connecting to an NJ/NX Controller of version 1.49 or later (or 1.29 if the Controller is NX7). **<Drive>** - Solved the problem that test operation could not be performed in manual tuning of 1S Series Servo Drive.

[Details of applicable model]

Models / Specification
SYSMAC-SE200D
SYSMAC-SE200D-64