PRODUCT NEWS



NO: PC-413 PRODUCT: SYSMAC STUDIO DATE: April 2021 TYPE: Software update

Sysmac Studio (SYSMAC-SE200X) Version 1.45 Release Note (Contains expanded product capabilities and significant bug fixes)

Effective April 12, 2021, the following Sysmac Studio software will be updated to Version 1.45. Changes in Version 1.45 are listed below and this update will be available via Auto Update for 32 and 64 Bit Version.



■ Updates:

■ Support of New Hardware

Controllers:

NJ501-R[]00 Controller version 1.44

NJ501-R[]20 Controller version 1.44

NY512-1[]00 Controller version 1.24

NY512-Z[]00 Controller version 1.24

NY532-1[]00 Controller version 1.24

NY532-Z[]00 Controller version 1.24

NJ501-5300 Controller version 1.21 (CNC 1.02)

NY532-5400 Controller version 1.21 (CNC 1.02)

Robot Integrated CPU Units Ver 1.43 and later support the following robots:

Viper series articulated robots

i4 series SCARA robots

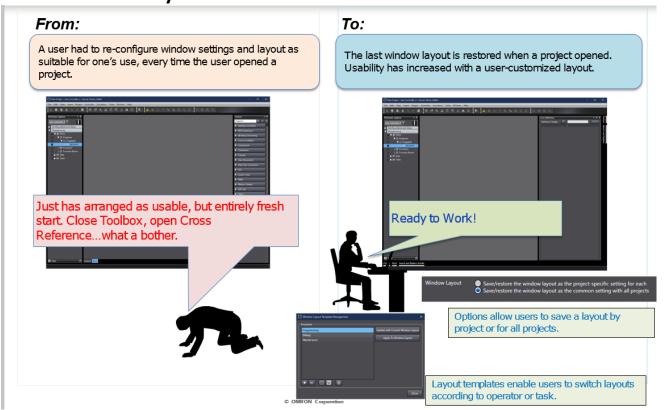
iX3/iX4 series parallel robots



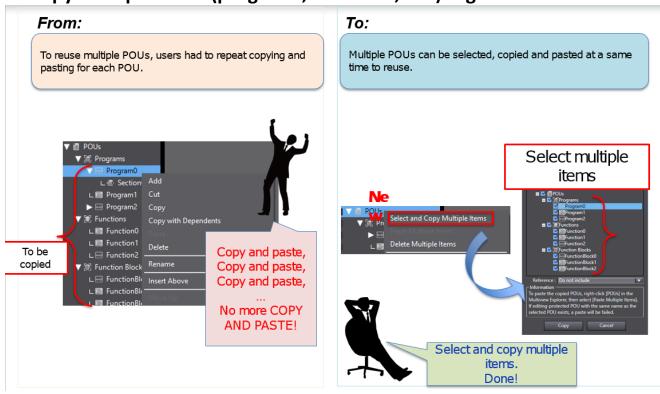


Improved Functions

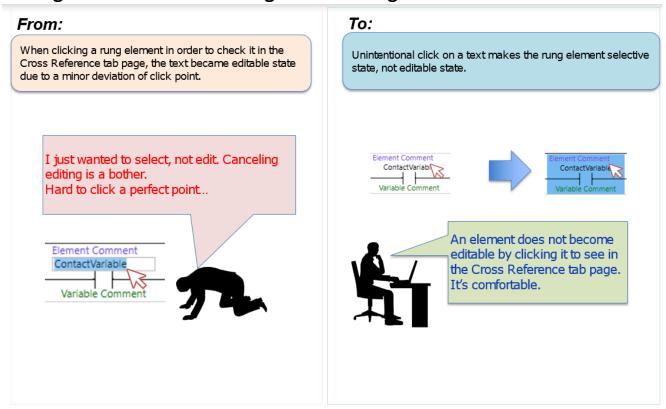
■ Save window layout



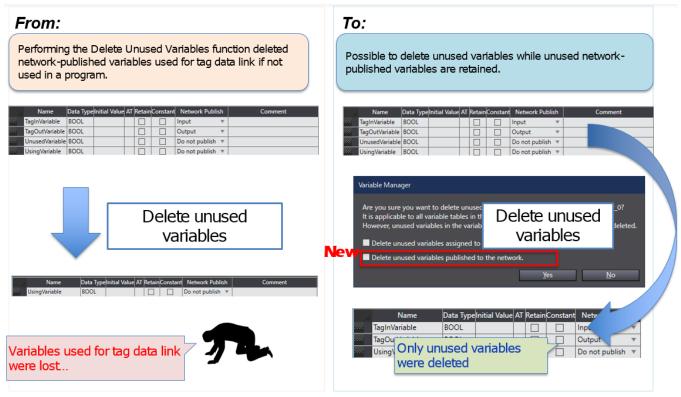
■ Copy multiple POUs (programs, functions, FBs) together



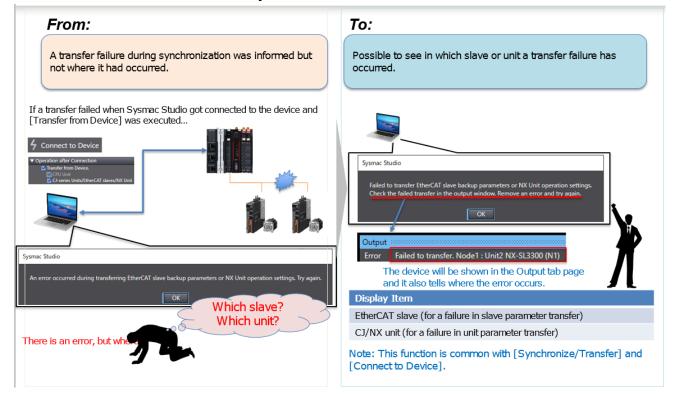
■ Single-click on a ladder rung makes a rung element selection



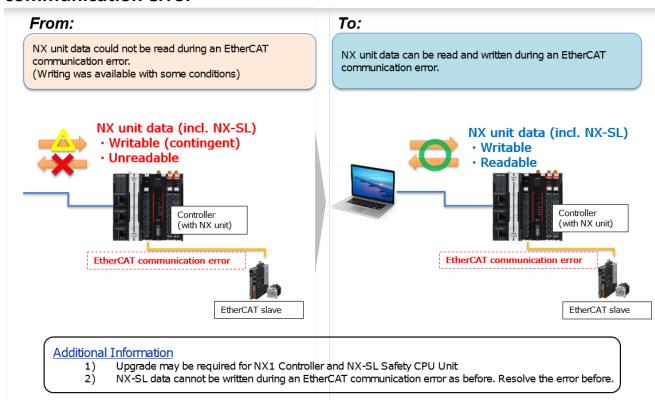
■ Network-published variables are not eligible for Delete Unused Variables function



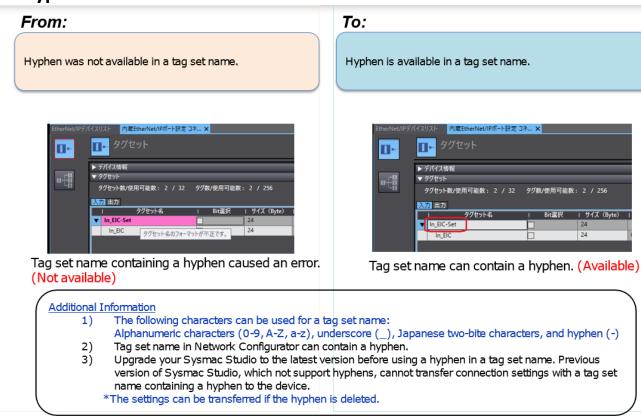
■ Show the EtherCAT slave/NX unit at a failed transfer



■ Transfer to NX unit is possible during an EtherCAT communication error

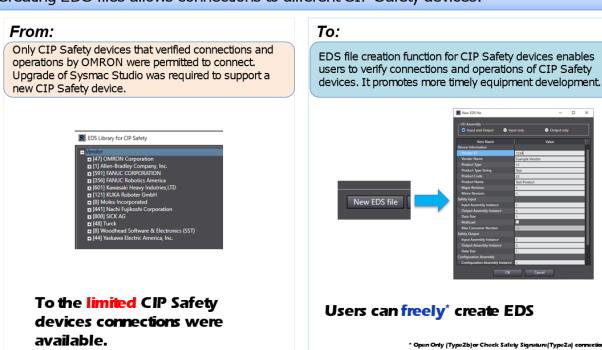


■ Tag set name in EtherNet/IP connection setting permits a hyphen



■ EDS file creation function for CIP Safety devices

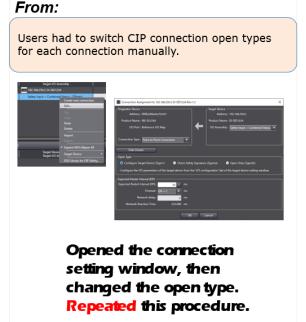
Creating EDS files allows connections to different CIP Safety devices.

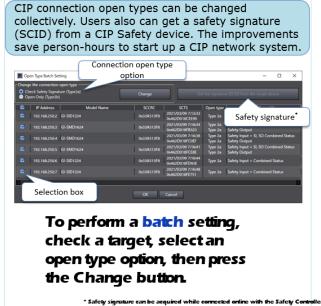


■ CIP connection type (Type2a, 2b) can be changed for several devices at once with batch setting feature

Improved functional safety management by assuring complete safety system integrity

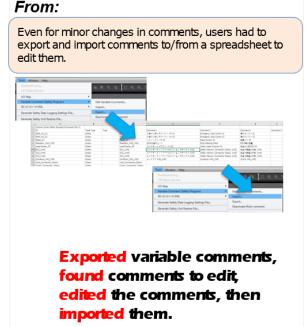
To:





■ Bulk editing for variable comments

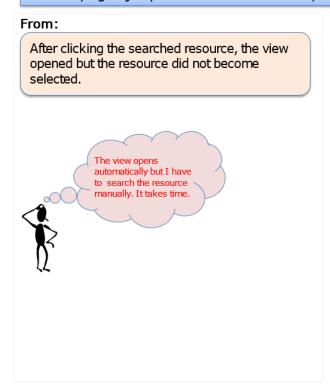
Collective management of multiple variable comments makes translation easier and more efficient.

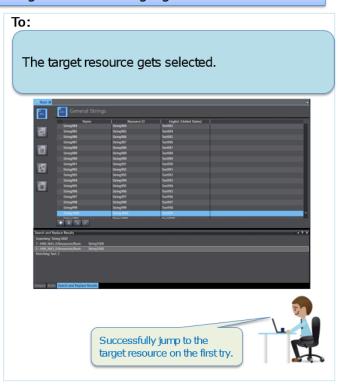




■ Search and jump to the resources

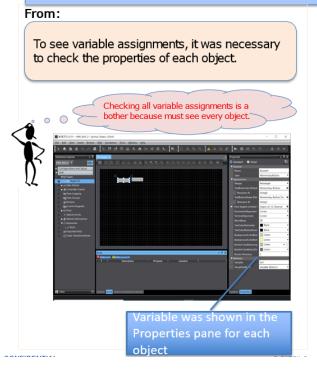
When trying to jump to a searched resource, the target resource is highlighted.

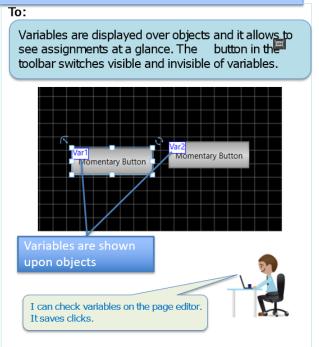




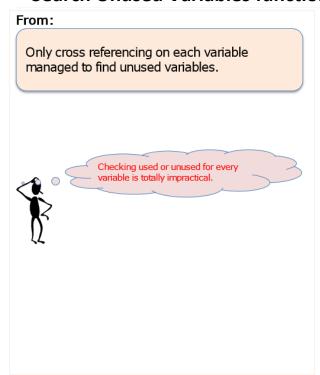
■ Variable display

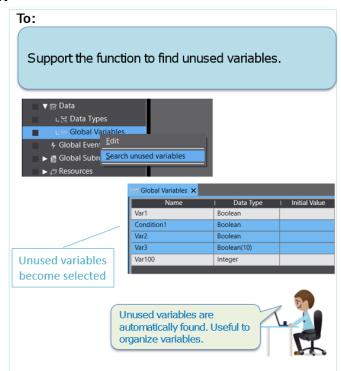
The function to display variables assigned to the objects on the page editor is available



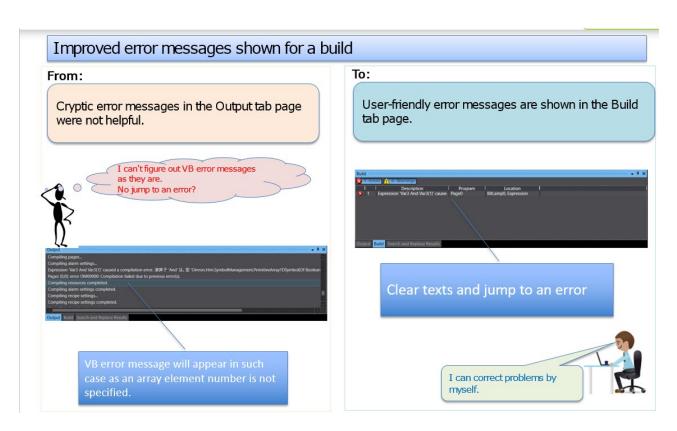


■ Search Unused Variables function

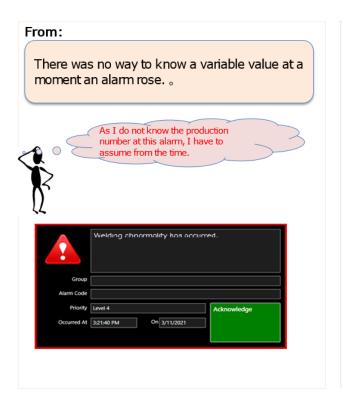




■ Improved error messages shown for a build

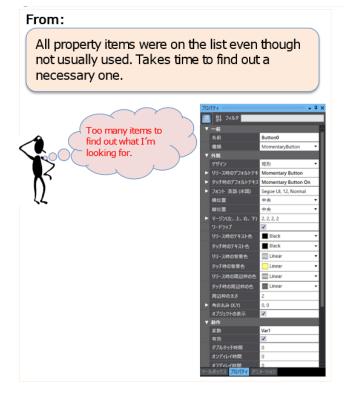


■ Embed a variable value in a user alarm message



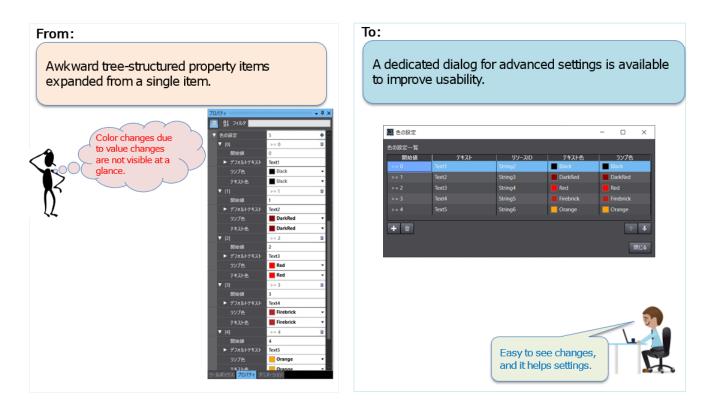


Only frequently-used property items are shown in the Standard mode.

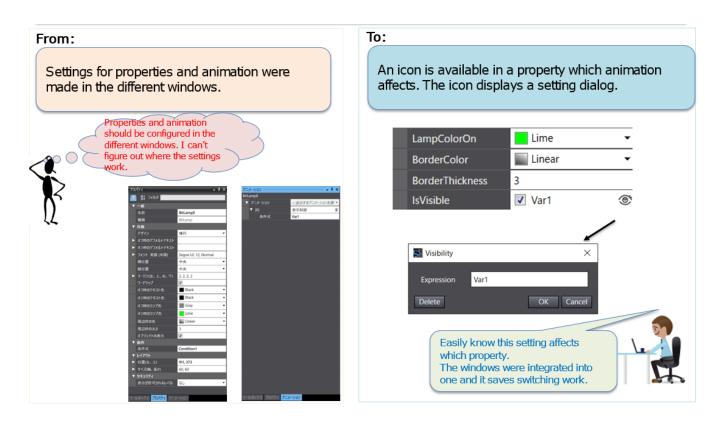




■ Embed Dialog for advanced settings is available in Properties Tab



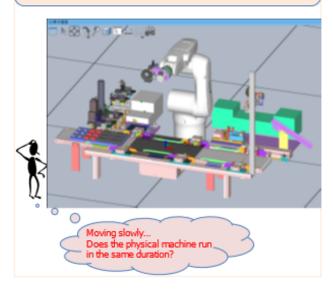
■ Animation window was merged into the Properties window.



■ 3D Visualizer displays real operational time

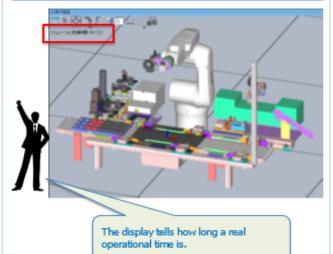


Increase of computer load might temporally slow down a simulation speed. It also might decrease operational speed of a virtual equipment running on the 3D Visualizer. User could not find out how slow it was compared with an actual machine.



To:

Simulation duration display enables to see an actual operational duration of the equipment on the 3D Visualizer just by a single look.



Enhanced/Improved Functions

■ Controller

- Solved the problem that executing [Transfer] in Online Edit during a simulation of NJ501-R[][] might stop a robot control task.
- Solved the problem that a major fault might occur after a build error associated with variables was resolved by changing the task setting.

■ Robot Integrated CPU/ 3D Simulation

- Support the Remote Encoder Setting Function
- Improved the problem that an error might occur and disturb an access to RobotControlSetting when a simulation of a project that includes a robot was performed.
- Improved the problem that executing a simulation from the 3D Visualization pop-up menu of an Application Manager device might fail.
- Improved the problem that during a simulation, performing online program editing that includes IEC variables referenced by EXTERNAL keywords in a V+ program caused a V+ program execution error.
- Improved the problem that when an NJ501-Rx20 (DB model) controller was set and a simulation of the project where an NJ Robotics instruction was used in a program was run, an error occurred and an access to RobotControlSetting was disturbed.
- Improved the problem that an online connection or simulation while the V+ variable list is shown initialized initial values of a precision point array.
- Improved the problem that when a shape script with a code to assign values into a REAL variable was run with Windows setting using a decimal comma instead of a decimal point, an error message was shown and the shape script was aborted.

Safety

- Support the function to update configurations and setting data for Safety Units
- Improved the usability so that a terminated connection can be reestablished with the Safety CPU Unit due to a timeout during an upload.

■ HMI

- Improved overall performances.
- Soft-NA supports Runtime 1.12 to 1.15.
- Solved the problem that in a project using multiple HMIs, data type definition might become invalid when a device was switched from controller to HMI.

- Solved the problem that a mapped variable might not be shown on the Variable Mapping when a device was switched from controller to HMI.
- Solved the problem that an invalid resources ID might be assigned to an edited resource on the page editor.
- Solved the problem that a copied page group might be pasted in the same page size of the original unit model.
- [Runtime] Solved the problem that an Input control action caused an error if performed at a start of NA.
- [Runtime] Solved the problem that E_PAG_011 might occur at a pop-up window appeared.
- [Runtime] Solved the problem that a CSV file created in data logging might be overlapped with a previously saved file.
- [Runtime] Solved the problem that an error occurred when a variable value set to a conditional expression of an event became unallowable one for its data type.
- [Runtime] Solved the problem that an error was rarely indicated in an operation when some objects sharing a variable were used in multiple pages.
- [OS] Support the function to insert a variable value into a message at a user alarm.

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