# Release Notes

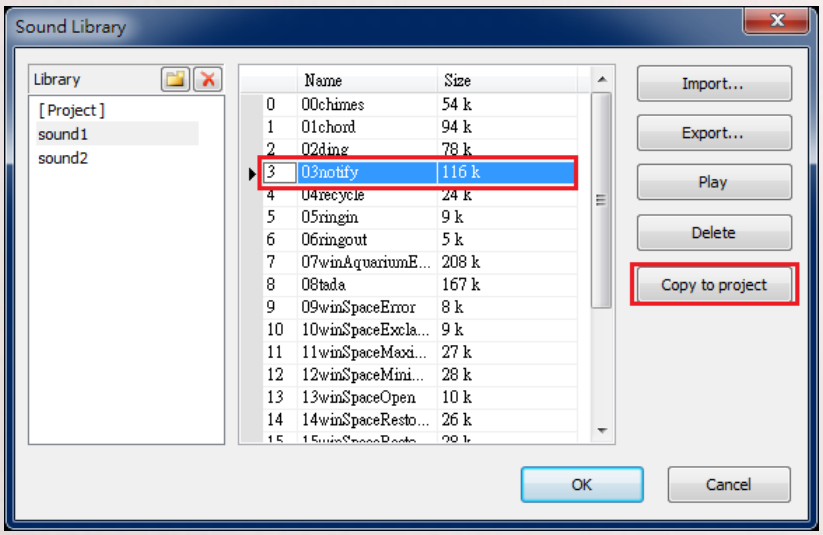
EasyBuilder Pro Version 3.00.01 Build 2013/02/27

## *New Features*

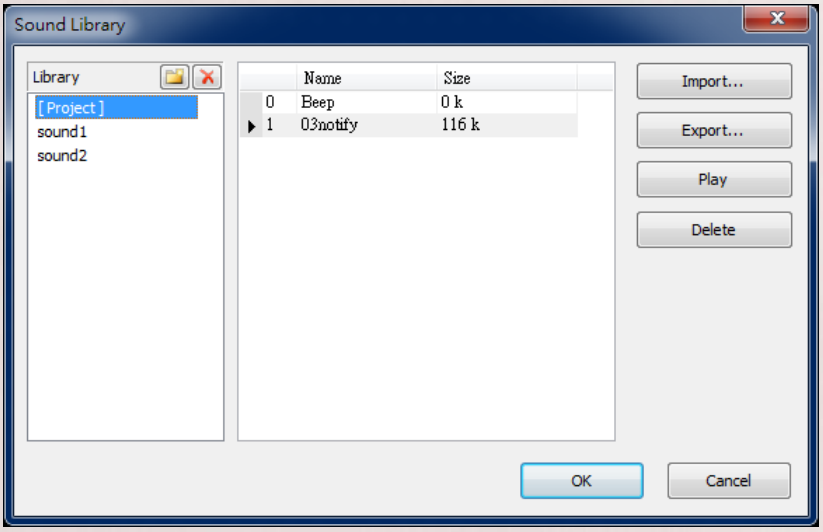
***1.*** Sound files can be saved in project file.

Sound Library provides [Project] directory. Sound files in [Project] directory are stored in the .emtp project file. When open the .emtp file on other PC, the sound files included can be used.

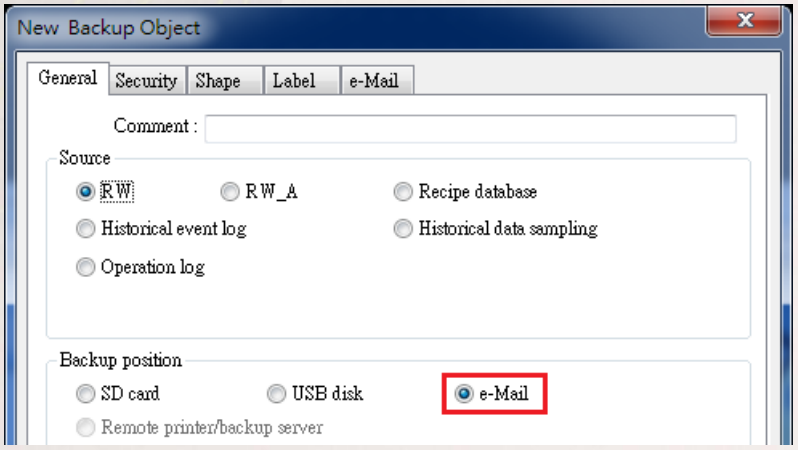
Open Sound Library, select a sound file and click [Copy to project].




The selected sound file is copied to [Project] directory.



2. Added [e-Mail] option to Backup object. Information such as RW, RW_A, Recipe Database, Event Log, Data Log, and Operation Log can be sent to configured email contacts.




3. Operation Log is a new feature in this release.

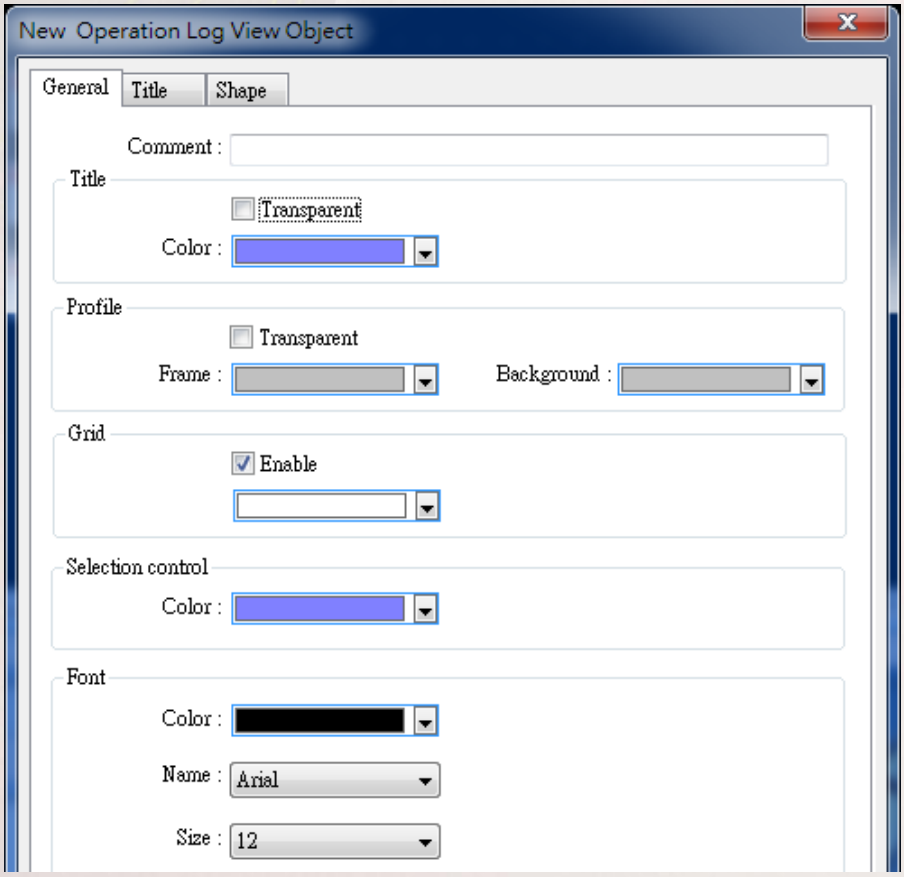
Operation Log records user operation steps and display them in real-time. When an error occurs, use operation log to analyze the problem. Operation Log View can also be used to review the process.

Open EasyBuilder Pro; click [Objects] on the menu and point to [Operation Log], and then click [Operation Log Settings] to set the control address.

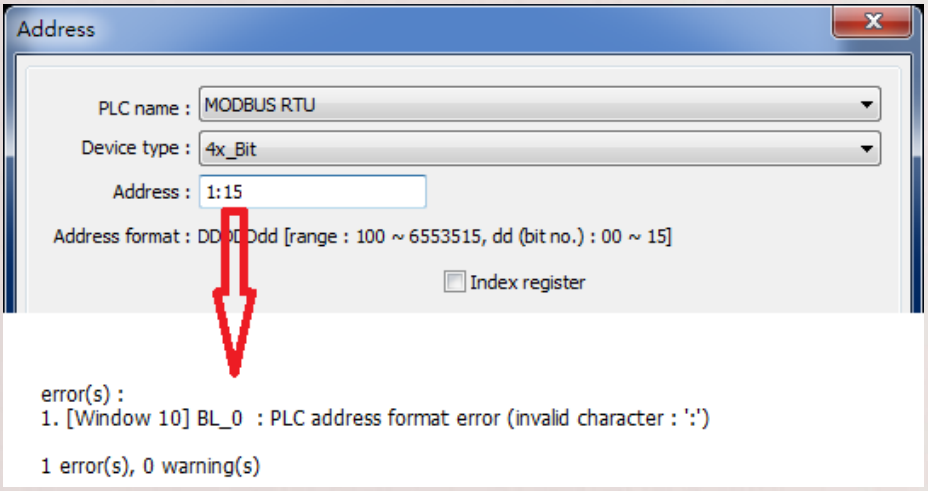
Control address is used to clear data or copy data to the external devices, the value in control address and the corresponding commands are listed in the following table.

| Value | Command |
|---|---|
| 1 | Clear all records |
| 2 | Copy data to USB disk |
| 3 | Copy data to SD card |
| 4 | Copy data to USB disk and clear records |
| 5 | Copy data to SD card and clear records |

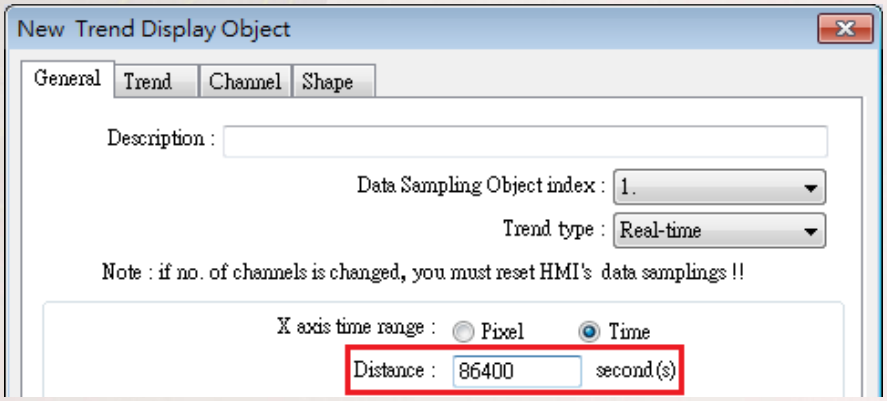
After setting Operation Log, add Operation Log View to review the operation process and records. Click [Objects] on the menu and point to [Operation Log], and then click [Operation Log View] to create the object.



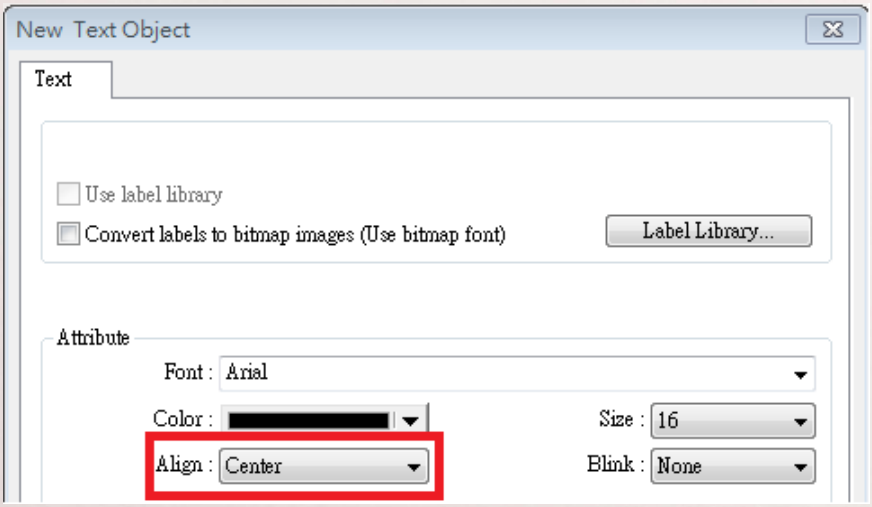

4. Colons (:) in non-tag based PLC addresses are automatically eliminated in compilation, therefore the following message is not shown.



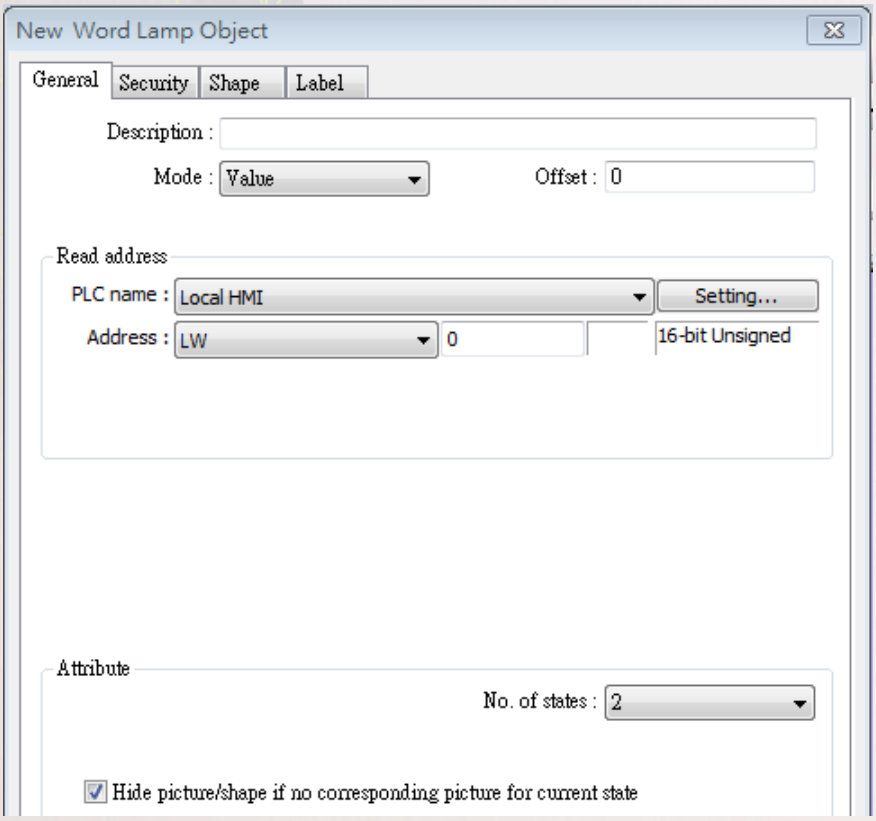
5. The maximum X axis time range of Trend Display object is extended to 86400 seconds.



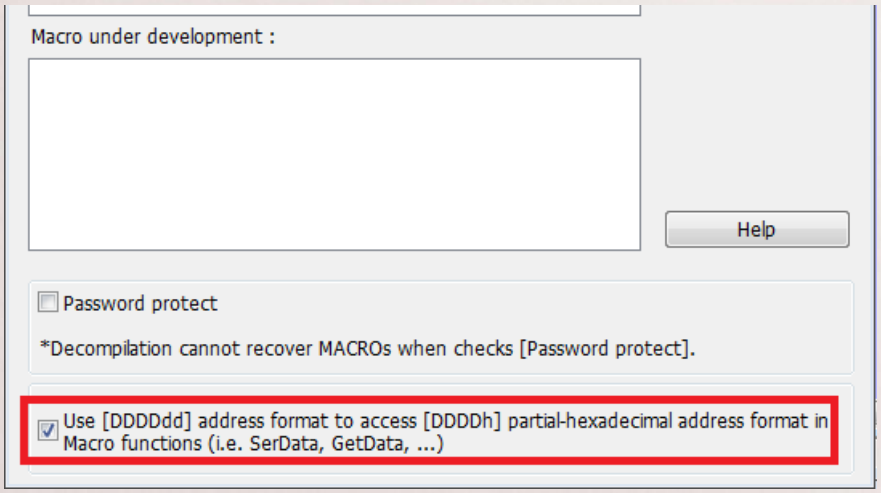

6. Center align mode is added in Text object.




7. For Bit Lamp and Word Lamp objects, which have the number of states greater than number of used shapes / pictures, Lamp objects can be configured to NOT use the last picture for undefined states.




*8.* Support using address format DDDDdd to replace DDDDh for Macro functions such as SetData and GetData.



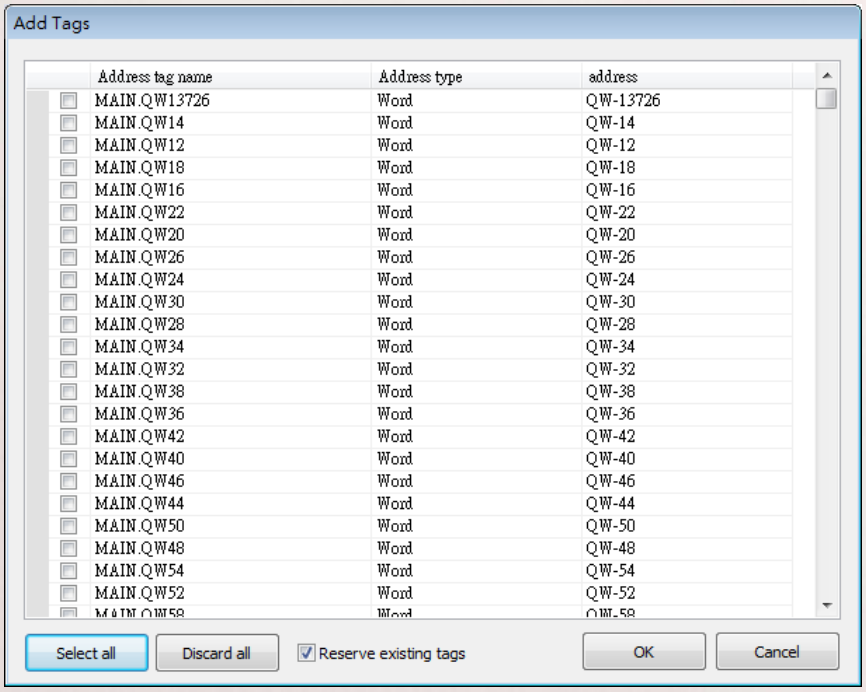

When the check box highlighted in the preceding figure is selected, and the address parameter is a variable (addr in this example), then address format DDDDdd can replace DDDDh, as a solution of using address format DDDDh by variables. The following two functions read the same register.

short status, addr =1011

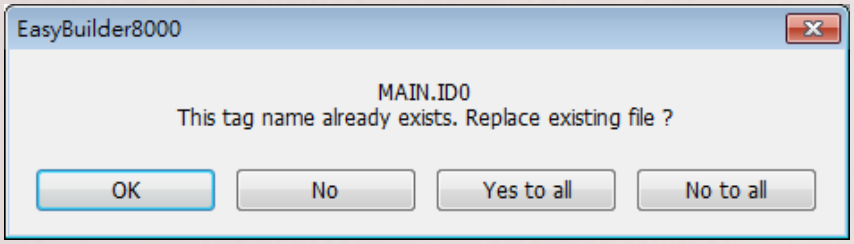
GetData(status, “Local HMI”, RW_Bit, 10b, 1) // use DDDDh format to decode the constant “10b”

GetData(status, “Local HMI”, RW_Bit, addr, 1)// addr == 1011, use DDDDdd format to decode the variable “addr”

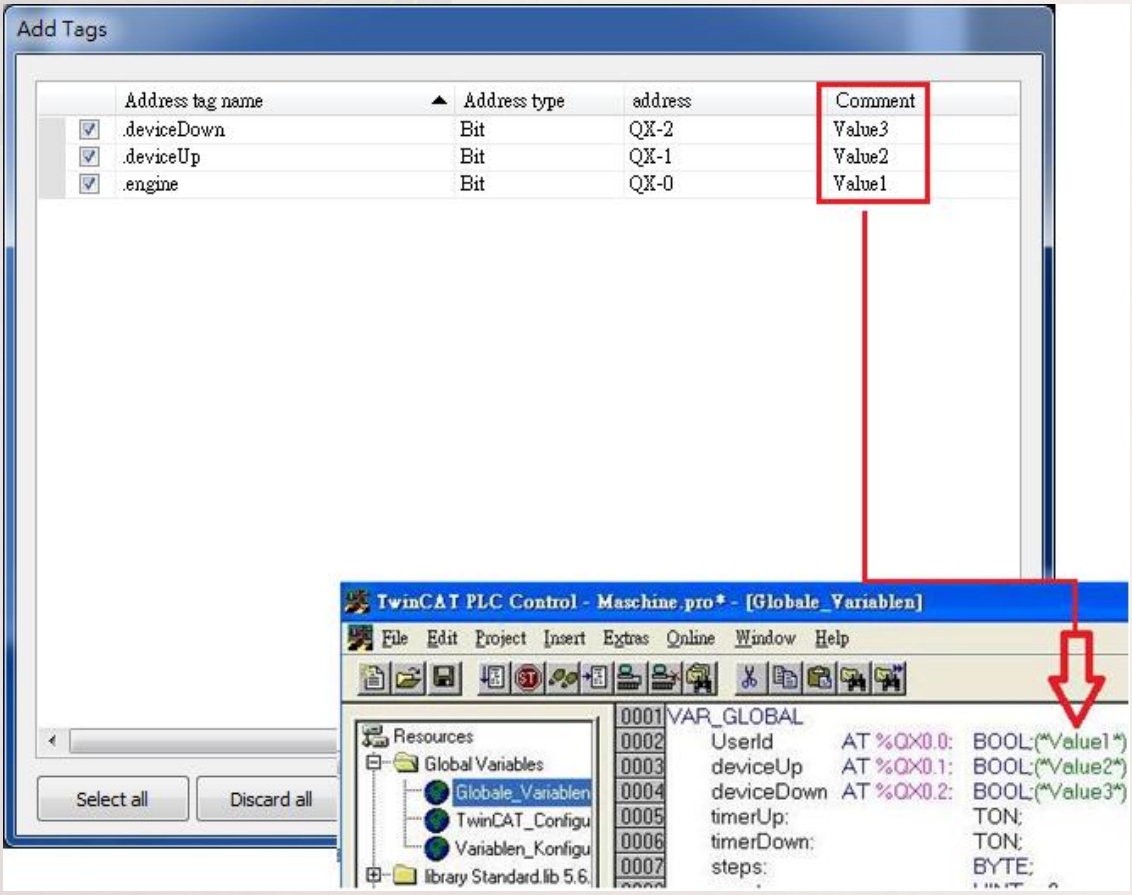
***9.*** When import tags in ***Beckhoff ADS/AMS (Ethernet)*** and ***Beckhoff Embedded PC*** drivers, users can select part or all of the tags to import in EasyBuilder.



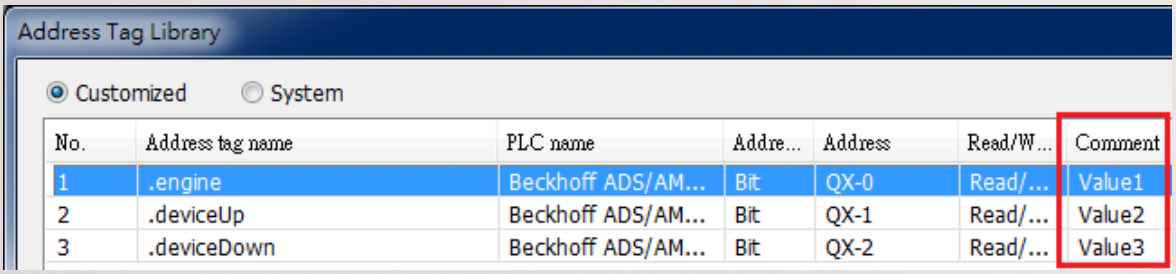

If [Reserve existing tags] check box is selected, when import an existing tag, the following message appears.



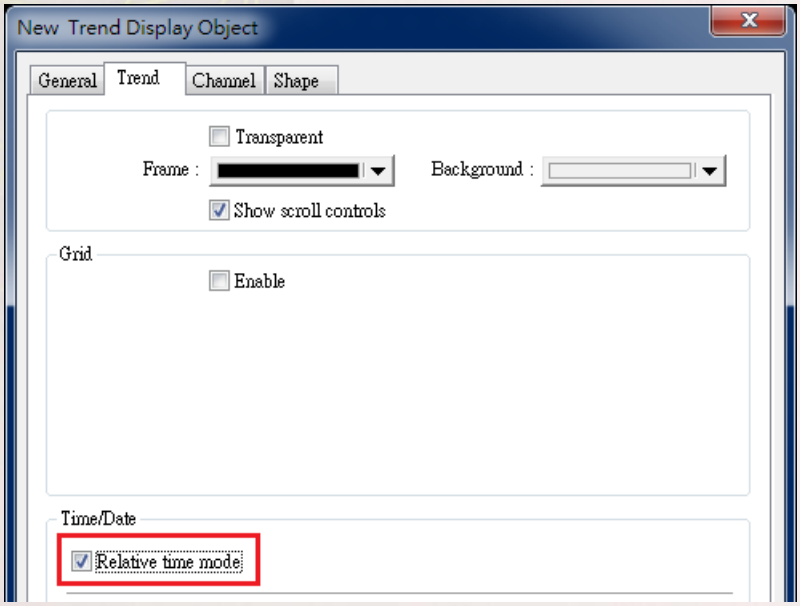
**10.** When import tags in ***Beckhoff ADS/AMS (Ethernet)*** and ***Beckhoff Embedded PC*** drivers, the comments are displayed.



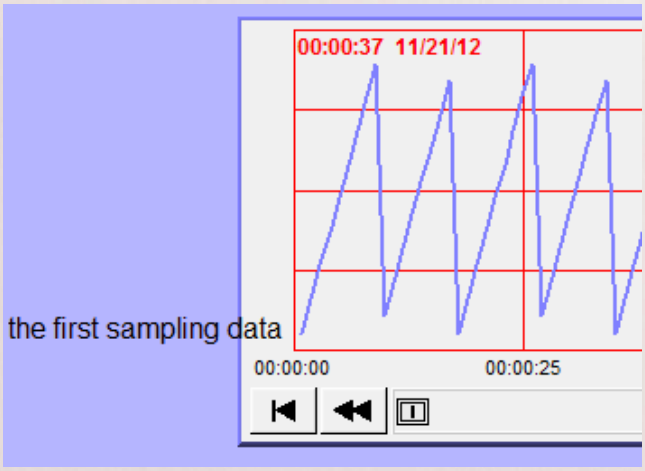

The tag comments are also displayed in Address Tag Library [Comment] column.



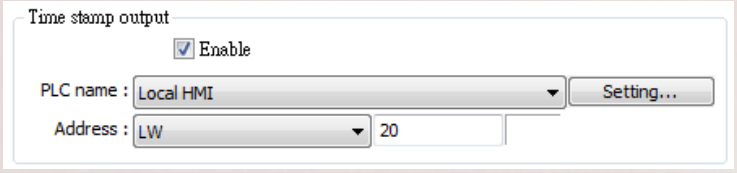
***11.*** [Relative time mode] is added to Trend Display object.




If selected, the system will start counting time from the first data sample. The time displayed on the upper-left corner of the object and the range of X axis starts from “00:00:00”, “00:00”, “0” or “00000” (depending on the time mode selected). Refer to the figure below.




In [Relative time mode], [Time stamp output] can be enabled, as shown below. And it requires 4 word registers.



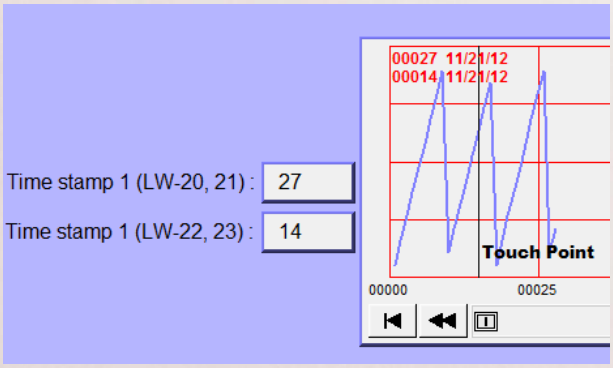
When this function is enabled, the sampling time of the latest data sample (DWORD type, in second) is output to the first two words in the designated register. When touching a point on the trend curve, the nearest sampling time to the touch point (DWORD type, in second), is output to the last two words in the designated register. When the designated register is 16-bit, the table below shows how the data of time stamp is stored in the register.

| | |
|---|---|
| Address | The low word of the latest sampling time. |
| Address + 1 | The high word of the latest sampling time. |
| Address + 2 | The low word of the nearest sampling time to the touch point. |
| Address + 3 | The high word of the nearest sampling time to the touch point |

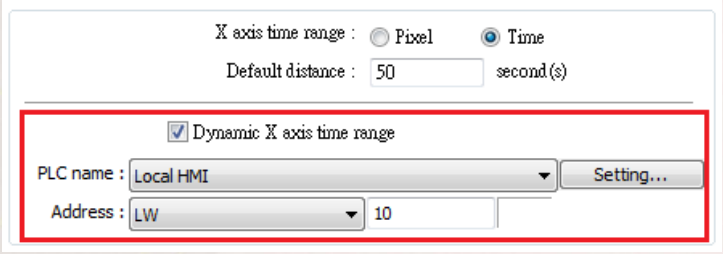
The following demonstrates the operation when [Time stamp output] is enabled.

[LW-20, 21]: 27 (seconds) displayed represents the latest sampling time.

[LW-22, 23]: 14 (seconds) displayed represents the nearest sampling time to the touch point.

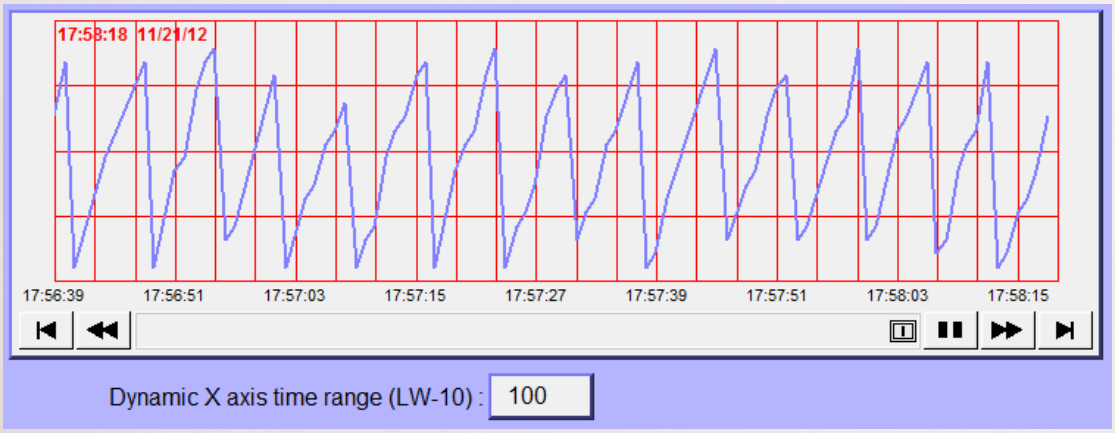



***12.*** [Dynamic distance between data samples] and [Dynamic X axis time range] selections are added to Trend Display object for users to directly change the way the data is displayed on HMI.

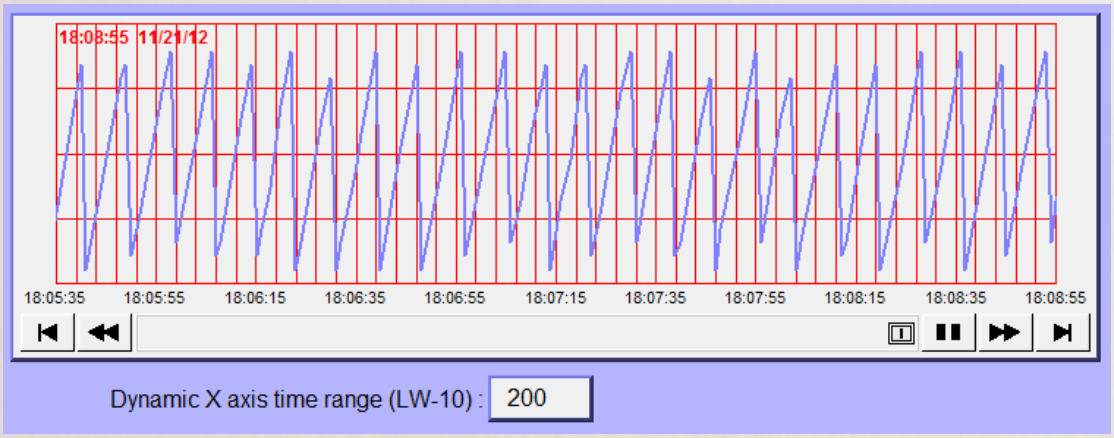



When this function is enabled, a valid default value must be set, that is, when the value of the designated register is 0, Trend Display will still be calculated according to the value set here.

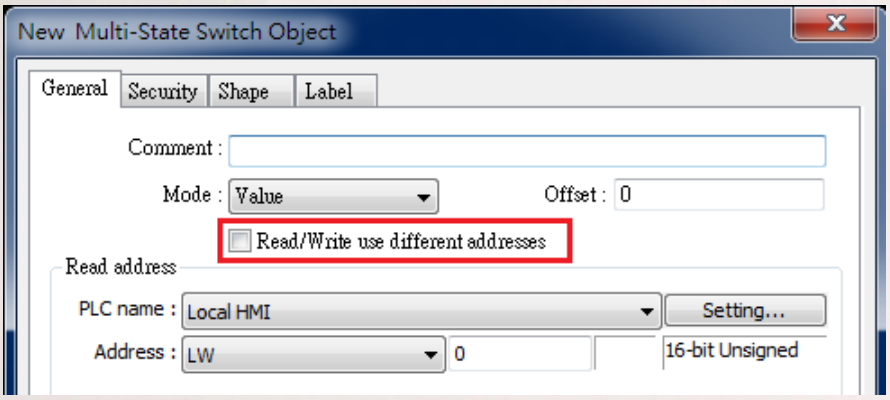
The following shows the trend curve displayed when X axis time range is set to 100.



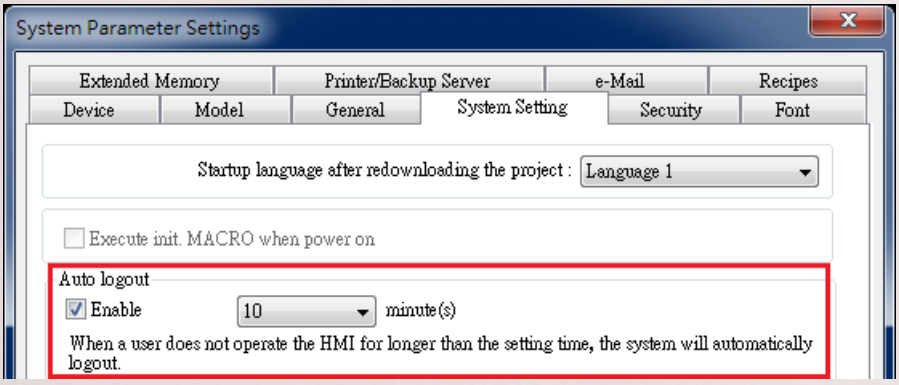

The following shows the trend curve displayed when X axis time range is set to 200.



**13.** [Read/Write use different addresses] selection is added to Toggle Switch and Multi-State Switch objects. When this check box is selected, the read address and write address are designated to two different addresses, otherwise, the read and write target are designated to the same address.




**14.** System register [LW-9082 (16bit): auto logout time (unit: minute, 0: disable the function)] is added for setting the time to log out (in minutes). Auto logout is enabled in [System Parameter Settings] > [System Setting] tab. When the value in LW-9082 is 0, auto logout is disabled.

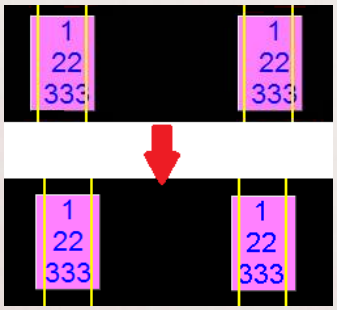


# Release Notes

## Corrections

The following errors were corrected in this release:

1. Fixed the problem when decompile the project that uses ***CANopen Slave*** driver, the object address setting is incorrect.
2. Fixed the problem where the data format of channels in History Data Display object does not match the setting in Data Sampling object.
3. Fixed the problem where in Text object, square signs appear in the end of the text line when its next line is a space.
4. Fixed the problem where Macro String functions cannot use global variables.
5. Fixed the problem when multi-lined text is center-aligned, the result displayed on HMI may be different from the original design.

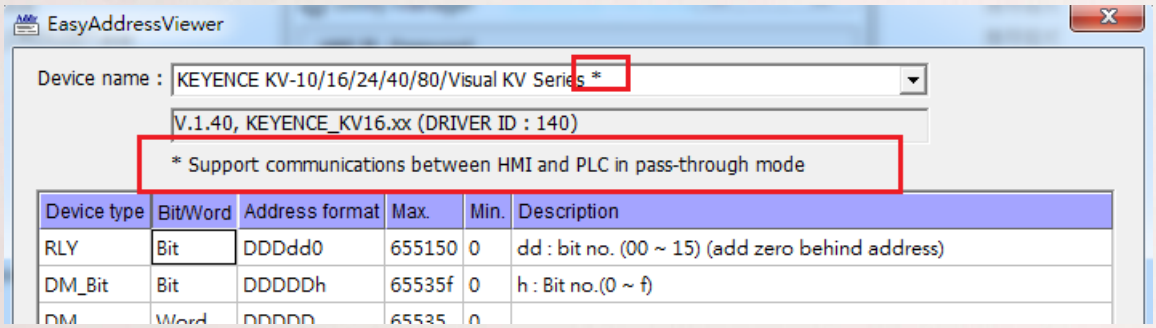



6. Modified the value in [LW-9049: local hour (12-hour format)], at 12 midnight, the value in this system register is changed from 0 to 12.
7. Window no. 5 “PLC No Response”, window no. 6 “Remote HMI Connection Fails”, and window no. 8 “Storage Space Insufficient” are allowed to be deleted.
8. Fixed the problem when the length of alarm message is longer than 255 words, the recorded message will not be written to Event Log. The correction is that the first 255 words will be written to Event Log.
9. Fixed the problem where EasyBuilder cannot get tag data when using ***TIA Portal software V11 update 5*** to edit ***S7-1200*** program.

# Release Notes

## Drivers

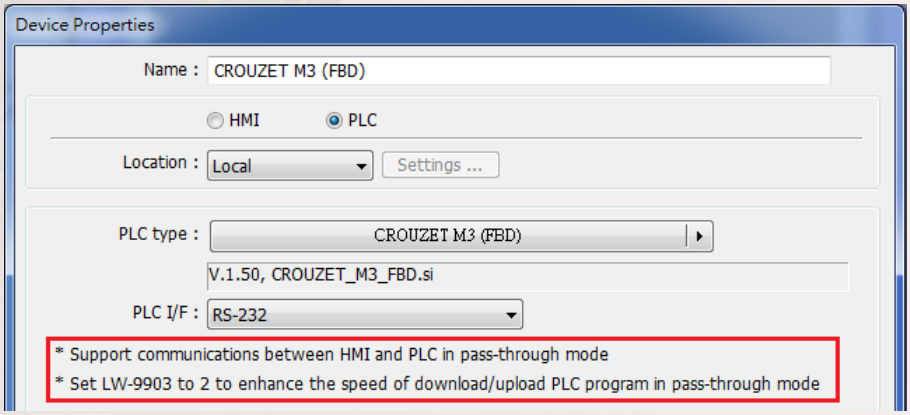
1. In Ethernet pass-through mode, the communication between HMI and PLC can continue without stopping. The following lists the PLC models that support this function. These models are labeled with a "*" sign in EasyAddressViewer as shown in the following figure.




The PLC models:

***CROUZET M3 (FBD)***
***CROUZET M3 (LAD)***
***DELTA DVP***
***FATEK FB Series***
***LS XEC/XGI CPU DIRECT***
***Mitsubishi FX0s/FX0n/FX1s/FX1n/FX2***
***Mitsubishi FX2n***
***Mitsubishi FX3u/FX3G***
***Mitsubishi Q00J***
***Mitsubishi Q02/02H***
***Mitsubishi Q06H***
***OMRON CJ/CS/CP***
***OMRON C/CQM1 Series***
***OMRON E5CN/E5EZ/E5ZN***
***Panasonic FP***
***XINJE XC Series***

If the listed PLCs are selected, the following message appears in the device properties dialog box.



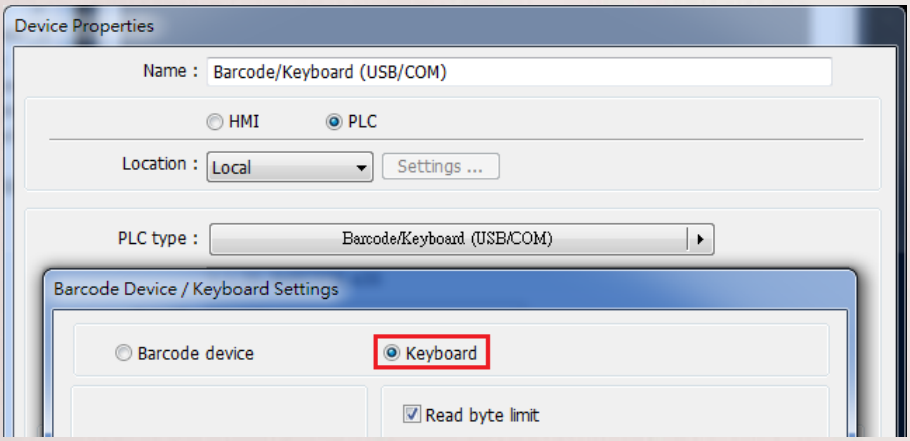

[LW-9903: pass-through control] controls the communication mode in pass-through mode. When the value in LW-9033 is:

0: Continue the communication between HMI and PLC.

1: Pause pass-through mode.

2: Use pass-through mode but stop the communication between HMI and PLC.

2. The Barcode driver is renamed as ***Barcode/Keyboard (USB/COM)*** which includes [Keyboard] mode.




3. Improved the communication speed of ***FATEK FB Series*** driver.

4. When import tags of ***BACnet/IP*** driver, the object names are displayed in Description column.

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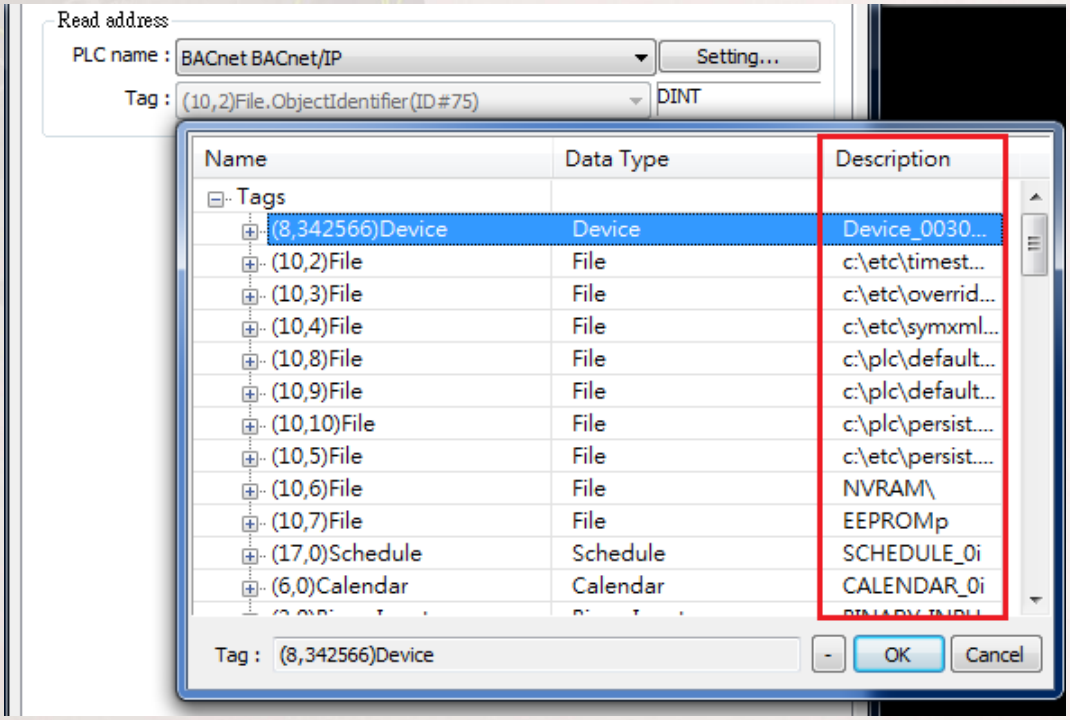


5. Improved the communication speed between ***eMT3070A*** and ***Siemens S7-300 MPI***.
6. Fixed the problem where device type is not correctly matched when use ***GE Fanuc Series 90-30 Ethernet*** driver to replace ***GE Fanuc SNP-X***.
7. Fixed the problem where PLC NO RESPONSE message is shown when ***CROUZET M3 (FBD)*** and ***CROUZET M3 (LAD)*** drivers use Data Transfer object to transfer certain number of words.
8. ***OMRON CJ/CS/CP*** and ***OMRON CJ/CS/CP (Ethernet - FINS/TCP)*** device type EM_Bit is added.
9. **MEGMEET MC Series** driver is added.
10. **motrona MC700** driver is added.
11. **motrona CT15012B** driver is added.
12. ***ABB AC500*** driver is added.
13. ***OMRON Ethernet/IP(NJ Series)*** driver is added.
14. ***Free Protocol Server (Ethernet)*** driver is added.