

EasyBuilder Release Notes

EasyBuilder Pro V4.10.06

Build 2014.09.23

### **Software Version**: EasyBuilder Pro V4.10.06

### **New Features**

1. Added [Scrolling control address] setting in Event Display object and Alarm

Display object settings dialog box.

	✓ Enable	
PLC name :	Local HMI 5	Settings
Address :	LW ¥ 10	16-bit Unsigned

The value in the designated control address indicates the number of lines to be scrolled down. The minimal value is 0, which indicates the first line. In the following figure, there are 10 events recorded in the object, and value 3 is set at the control address. The upper event object displays the events in time ascending order, and begins at the 4<sup>th</sup> event; on the other hand, the lower one displays the events in time descending order, and begins at the 7<sup>th</sup> event.

	4	18:48:19	Test Event	
	5	18:48:19	Test Event	
event LB0	6	18:48:20	Test Event	L
	7	18:48:20	Test Event	L.
	8	18:48:20	Test Event	
Scrolling				
Control				
	7	18:48:20	Test Event	
0003	6	18:48:20	Test Event	Į.
0003	6 5	18:48:20 18:48:19	Test Event Test Event	ł
0003				l
0003	5	18:48:19	Test Event	

If [Scrolling control address] is enabled, the scroll bar cannot be used for scrolling, but still shows the relative position of the content. If the control



address holds a value that is larger than the total number of lines, the display will stroll to the end.

- 2. Added new system registers:
  - [LW-11155: the total size of HMI memory (unit : KB)]
  - [LW-11157: the free size of HMI memory (unit : KB)]
  - [LW-11159: memory loading (x 100%)]
- 3. Added Find button in the address settings dialog box. (not applicable to

Siemens	S7-1200	tags)
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Read addre	55		
PLC name :	Rockwell EtherNet/IP (CompactLogix)	✓ Settings	
Tag :	10	~ ?	
	Name	Data type	Description
			^
	Generator_auto_selected	DINT	
	Generator_emer_stop	DINT	
	Generator_GCB_bit	INT	
	Generator_MCB_bit	INT	
-Notification	Generator_MCB_bitx	DINT	
	Generator_MCB_OK1	TIMER	
	Generator_MCB_OK10	TIMER	
	Generator_MCB_OK11	TIMER	
	Generator_MCB_OK2	TIMER	
	Generator_MCB_OK3	TIMER	
	Generator_MCB_OK4	TIMER	
	Generator_MCB_OK5	TIMER	
Notification	Generator_MCB_OK6	TIMER	
	Generator_MCB_OK7	TIMER	
	Generator MCB OK8	TIMFR	~
	Tag : Generator	- Fi	ind OK Cancel

4. When the size of the imported picture file is bigger than 5MB, a warning window will pop up. The warning message is also displayed during compilation.

	EasyBuilder Pro				
?	The picture size is too big (9634660 bytes > 5M bytes), so it is not suggested to use to avoid decreasing HMI performance. Import or not ?				
	ОК С	ancel			



5. Added preview feature in Numeric object settings dialog box. The result of

Sca	ling Method : Interpolation	• •					
		Co	nversion Test				×
	Number of digits Left of decimal Pt. : 4	* *	Right of decima	al Pt. : 0			
Li	HMI Engineering	low PLC + ( 125	PLC low	Engin 50 ) x	neering high	Engineeri - 0 - 0	ng low
	0006	•	125	Ρ	LC high	PLC lo	w
	HMI	1	PLC				
				Арр	bly	ОК	Cancel

"Interpolation" can be previewed.

- 6. Added [Use UTF-8 format to export CSV file] option in Address Tag Library. The CSV file will be exported in UTF-8 format. The system will automatically detect the file format during import, and read the file in appropriate format.
- 7. Supports multiple Free Protocol Servers.
- Increased the maximum number of actions of Combo Button object to 20 actions.



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### **Corrections**

#### EasyBuilder Pro

- Shortened the time needed for Trend Display object to read history data, thus improved the display speed.
- 2. Fixed the problem where the project file cannot be successfully compiled when the device name used for certain features is changed. The affected features are:
  - Option List object, Drop-Down List mode, [Send notification after writing successfully].
  - b. Trend Display object, [Time stamp output].
  - *c.* Timer object, [Reset bit (R)].
- 3. Fixed the problem where EasyBuilder Pro may be incorrectly closed during compilation if [Pixel] is used to set the distance between two sampling points in Trend Display object, and the specified distance exceeds or equals to the width of the object.
- **4.** Fixed the problem where an incorrect warning message is displayed during compilation when using Siemens driver for Combo Button object Lamp mode.
- 5. Fixed the problem where Tag PLC address cannot be used as History Control address when [Enable reading multiple histories] is selected in Event Display object.
- Fixed the problem where the Excel file generated from Event Log cannot be successfully imported.
- Fixed the problem where the first invalid input is not notified when [Notification on invalid input] is enabled in Numeric object.
- 8. Fixed the problem where HMI replies slowly when updating recipe data using



LB-9029 after changing RW\_A.

- 9. Fixed the memory management mechanism to avoid HMI slowdown or crash due to improper use of memory, which also lowers the risk of system instability due to oversized image files.
- 10. Fixed the problem where Combo Button » [Security] » [Interlock] » [Grayed label when disabled] feature does not work.

#### EasyPrinter

 Fixed the problem where EasyPrinter may terminate abnormally after running for an extended period of time.



### Drivers

- 1. OMRON EtherNet/IP (NJ Series) driver supports the following features:
  - *a.* Multi-layered address can be designated for data type.

編程						
全局変數	*					
名稱	教練知型	1 初始值	1 分配到	(保持	常敵	1 1913
Datal	weintek_data					公開
Data2	weintek_data1				B	公開
Data3	weintek_union					公開
Data4	ARRAY[0.4] OF weintek_data					公開
Data5	ARRAY[0.4] OF weintek_data1	1		8		公開
Data6	ARRAY[0.4] OF weintek_union			E		公開

- **b.** Structure data type.
- c. Union data type.

	名稱	基本類型	註解
	weintek_union	UNION	
122	V1	BOOL	
	V2	WORD	

d. Structure array.

吉構體		名稱	基本類型	偏移類型
	•	weintek_data	STRUCT	NJ
X383882		value1	BOOL	
		value2	ARRAY[02] OF INT	
•	•	weintek_data1	STRUCT	NJ
		Value_1	BOOL	
		Value2	weintek_data	
		Value3	ARRAY[02] OF weintek_data	
		Value4	weintek_union	

- To import tags, import the .txt file exported by Sysmac Studio, or copy and paste the tags from Sysmac Studio into the tag editor.
- *f.* Supports EtherCAT communication. In the I/O mapping, assign general tags to module's control variable. By read/write of the general tags,
   EtherCAT communication can be achieved.



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新活奏室	A REST	和股	定				
new_Cantroller_0	U/O	10	× +				
▼ - maga::GX-ID1611+ID08-1 (c001)	101	-	通訊均	2015	R/W	戴婆顿里	后数
E SR		1.5	CPU/擴充機架				
▼ <= 10188/2 : GX-ID1611+ID16 (E002)	a		CPU 编辑0				
- C 280		<b>V</b> 8	EtherCAT網路設定				
▼ - 10163 : GX-AD0471 (E003)	EU		1294				
17 9 M		Þ	GX-ID1611+ID08-1				
▼ (2) 前期4 : R88D-KN75F-ECT-L (E004) 4	10		GX-ID1611+ID16				
-034	86	Þ	GX-AD0471				
▼ (二) 開始5 : R88D-KN75H-ECT (E005) 4篇	10		R88D-KN75F-ECT-L				
0.88			Controlword	Controlword	w	WORD	
▶ 53 CPU/建充版第			Target position	Target position	w	DINT	
<ul> <li>人口 記念</li> </ul>			Target velocity	Command speed for the	w	DINT	
■ ▶ 弐 控制器設定			Target torgoe	Target torque	w	INT	
			Modes of operation	Modes of operation	w	SINT	Data7
- 6' Cam教師設定			Touch probe function	Touch probe function	w	WORD	-
▶ 事件設定			Max profile velocity	Target velocity used in ti	w	UDINT	
N 工作設定			Positive torque limit value	Positive torque limit valu	w	UINT	-
			Negative torque limit value	Negative torque limit va	w	UINT	
BB			Error code	Error code	R	WORD	
▼論程			Statusword	Statusword	R	WORD	
▼ @ POUs	3		Position actual value	Position actual value	R	DINT	
▼況税式			Torque actual value	Torque actual value	R	INT	
▼ ⊟ Program0			Modes of operation display	Modes of operation disp	R	SENT	
T Steel Contaction (SS)			Touch probe status	Touch probe status	18	WORD	

2. Removed the device types DBO and DBOBit in Siemens S7-300, S7-300(ISO

Ethernet), S7-300 MPI, S7-300/ET200S(Ethernet), S7-400 (Ethernet),

S7-1500( Ethernet) drivers.

3. Fixed the problem where changing Max. read-command size in Modbus RTU

and *Modbus TCP/IP* drivers has no effect on 6x device types.

- 4. LS XEC/XGI series drivers, including the following drivers:
  - LS XEC Cnet
  - LS XEC FEnet (Ethernet)
  - LS XEC/XGI CPU DIRECT
  - LS XGI Cnet
  - LS XGI FEnet (Ethernt)

Have the following changes:

- *a.* UX, IX, QX, MD device types are added.
- **b.** Renamed the bit addresses by adding an uppercase letter X.

 $\mathsf{Ex}:\mathsf{M} {\rightarrow} \mathsf{MX}.$ 

c. Renamed the word addresses by adding an uppercase letter X.

 $\mathsf{Ex}:\mathsf{M} \to \mathsf{MW}.$ 



- Fixed the problem where Siemens S7-200 PPI driver cannot read C, T, VD\_String\_Odd device types.
- 6. Fixed the following problems of Siemens S7-200 Series drivers:
  - a. Cannot access VB address type.
  - b. When HMI and PLC are started at the same time, the communication might not be successfully established.
  - *c.* Cannot reconnect after being disconnected.
  - Communication error may occur due to reading of a large amount of data.