

Rev. Oct 9, 2019

Weintek HMI to RSLogix 500 Ethernet PLCs

Introduction: This instruction manual discusses how to export tags from Allen Bradley RSLogix 500 and import tags into EasyBuilder Pro. In RSLogix 500, programmers can assign a "symbol" to the memory address in Data File. (B3, N7, F8, etc.) Now EasyBuilder Pro supports importing these symbols to its Tag Library, so HMI programmers do not need to type PLC addresses in each object manually. This feature makes integration quick.

Note: This feature is available for RSLogix 500 PLCs with Ethernet connectivity. Please use **Rockwell EtherNet/IP (DF1)** driver in EasyBuilder Pro.

Equipment & software: EasyBuilder Pro v6.02.02.428 or greater.

Exporting the PLC tags (PLC Side):

- 1. Open your project in RSLogix 500.
- The tag names must be applied to the addresses before exporting the tags. (in Data File dialog » Symbol box)
- 3. To start the export process, go to [Tools] on the toolbar » [Database] » [ASCII Export].
- 4. The dialog will pop-up. Go to [CSV] tab. [Address/symbol Desc.] is checked by default. If no, please check this option.
- 5. Click **OK** and save it to the desired location.

Importing the PLC tags (HMI Side):

- 1. Open a new project in Easybuilder Pro and select your HMI model.
- 2. To get the HMI talking to the MicroLogix PLC, go to [Home] tab » [System Parameters].

📧 EasyBuilder Pro : EBPro	oject1 - [10	- WINDOW_0	10]									
File 🔡 🖬 🔺 🥕	= Hom	e Project	Object	Data/History	lloT/Energy	View Tool						
Paste Copy Para	System rameters	Select Contraction	Find/Replace A Multi. copy Window copy	lddr	🔛 💾 🧇 / ~~ 🖧	■ 🗄 🖶 – (○ ଓ C © 🖪 📇 #) [] ∧] ☆ •] � •	음우의 한아비 문 태 國 법 가 아 응 당 한 왕 것 팀 · 문 · 무 · 위 ·	7barSP ÂA Aă ⊿	<u> </u>	S0 S1 S2 S3 0	÷
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3. Add [Rockwell EtherNet/IP (DF1)] driver to the Device List.

Name :	Rockwell EtherNet/	IP (DF1)		
		evice		
Location :	Local 🗸	Settings		
* Select Local for a HMI.	device connected to	this HMI, or Remote	for a device connec	ted through anothe
Device type :		Rockwell Ether	Net/IP (DF1)	•
	Device ID: 132, V.2	.90, ALLEN_BRADLE	Y_EIP_DF1.c30	
I/F :	Ethernet	~	Open Device Conn	ection Guide
IP :	192.168.1.111, Por	rt=44818 atagram Protocol)		Settings
Ib :	192.168,1.111, Por	rt=44818 atagram Protocol)		Settings
IP : Inter Max. res	192.168,1.111, Por	rt=44818 atagram Protocol) rds) : 5 ~ ds) : 120		Settings

4. Click on [Settings...] on the previous window. Enter the IP address and port number.

IP Address Settings	
IP address : [Port no. : [192 . 168 . 1 . 156 44818
Timeout (sec) :	1.0 V Turn around delay (ms) : 0
	The number of resending commands : $\boxed{0}$
	OK Cancel

5. Click [Import Tags...] button.

C	ellular Da	ta Network	c l	Ti	me Sync./DST		e-Mail		Recipe Database	
Devi	ce	Model	Gene	eral	System	Remote	Securit	y	Extended Memory	у
evice	e list:								What's my IP?	
		Name	Location	Devic	e Type	Interface	I/F Protocol	Sta	tion No.	
~ L	ocal HMI	Local HMI	Local	cMT3	090 (1024 x 768)	-	-	0		
	Loc	Rockw	Local	Deale	Real and the					
				KOCK	ve⊪ EtherNet/I	Ethernet	TCP/IP	N/#		
				ROCK	veli EtherNet/I	Ethernet	ΤCP/IP	N/#		

6. Navigate to the generated CSV file. Click **Open**.

💽 Open								×
← → × ↑ 📙 → This PC	> D	esktop > RS-500 TAG > RS-50	0 TAG		ٽ ~	Search RS-500 TA	٩G	Q
Organize 🔻 New folder						5		?
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🗸 📃 Desktop		RS-500 TAG.CSV		5/23/2019 1:01 PM	Microsoft Excel C	9 KB		
> 誟 Dropbox								
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> 🤱 WeintekUSA_Engineer								
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File name:	RS-5	00 TAG.CSV			~	CSV Files (*.csv)		\sim
						Open	Cance	el

7. Select tags that you want to import or click [Select all] to import all tags.

	Address tag name ^	Address mode	address	Comment	
\checkmark	BIT3_37_11	Bit	Bfn-303711		
\checkmark	BIT54_6_10	Bit	Bfn-5400610		
\checkmark	COUNTER5_9_ACC	Word	CfnPV-5009		
\checkmark	COUNTER55_13_ACC	Word	CfnPV-55013		
\checkmark	COUNTER55_13_PRE	Word	CfnSV-55013		
\checkmark	COUTER5_8PRE	Word	CfnSV-5008		
\checkmark	FLOAT53_46	Word	Ffn-53046		
\checkmark	FLOAT8_137	Word	Ffn-8137		
\checkmark	INPUT_W_1_4	Word	I 1n-0104		
\checkmark	INPUT0_20	Bit	I 1n_Bit-000104		
\checkmark	INPUT1_46	Bit	I1n_Bit-010214		
\checkmark	INPUT1_71	Bit	I 1n_Bit-010407		
\checkmark	INPUT1_92	Bit	I1n_Bit-010512		
\checkmark	INT_BIT7_8_5	Bit	NfnBit-700805		
\checkmark	INT52_83	Word	Nfn-52083		
\checkmark	INT7_83	Word	Nfn-7083		
\checkmark	LONG14_47	Word	Lfn-14047		
\checkmark	OUTPUT_2_4	Bit	O0n_Bit-020004		
\checkmark	OUTPUT_W_1_1	Word	O0n-0101		
\checkmark	OUTPUT0_41	Bit	O0n_Bit-000209		
\checkmark	OUTPUT1_21	Bit	O0n_Bit-010105		
. /	ETDINC 10:0	Ward	CT6: 10 000 00		

8. If it succeeds, the below dialog will come up. Click **OK**.



- 9. Click **OK** to close the [System Parameter Settings] dialog.
- 10. To see your tags, go to [Project] tab » [Address].

🖪 Easyl	Builder Pro : E	BProject	1 - [10 -	WINDOW_01	10]														
File	🗄 🖂 🔦		Home	Project	Object	Data/History	lloT/Energy	View	Tool										
Syste Messa	m Languag ge & Font	e Cor	rpile S	Online iimulation	Offline Simulation	Download (PC->HMI)	Build Download Files	Reboot HMI	Shape	Picture	A Label	⇒ <mark>abc</mark> ××× String	Macro	@≡ Address	Group	Sound	Records of Recipe Database	Control Token	
	Setting				E	Build								Library	/				

11. The tags will be displayed on User-defined tags.

Tag name Device name Address 2 Local HMI Prockwell EtherNet/IP (DF1) Bir3_37_11 Bir3_20211 Chast-5008 Counters5_9, ACC Counters5_9, ACC Counters5_9, ACC Counters5_13_ACC Chast-5009 Counters5_13_ACC Chast-5009 Counters5_13_ACC FLOATS3_46 FLOATS3_46 FloATS3_46 FloATS3_46 FloATS3_46 FloATS3_46 FloATS3_46 FloATS3_46 FloATS_46 FloAS137 FloATS_46 FloAS137 FloAS137 FloAS14 FloAS14 FloAS137 FloAS14 FloAS14 FloAS144 FloAS144 FloAS144 <t< th=""><th>\$</th><th></th><th></th><th>Search</th><th>Classification</th><th>O System tags</th><th>User-defined tags</th></t<>	\$			Search	Classification	O System tags	User-defined tags
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New Delete Delete All Settings Use UTF-8 format to export CSV file	>						
Deleter and Delete		file	e UTF-8 format to export CSV	Settings	Delete All	Delete	New
					0000078		

Example of HMI Programming:

1. Create a **Bit Lamp** object. To select the tag from Tag Library, click on [Settings...].

sector sect	urity Shape Label	
Comm	ient :	
	Bit Lamp	○ Toggle Switch
Read addres	s	
Device :	Rockwell EtherNet/IP (D	F1) V Settings
Address :	I1	~ 0
	Invert signal	
Blinking	tode : None	

2. Enable [User-defined tag] check box.

	General Se	curity ment :	Shape	Label										
			🖲 Bit La	amp				gle Switc	:h					
	-Read addr	ess										_		
	Device	Rock	well Ethe	erNet/IF	P (DF1)				~	Set	ttings	•		
	Address	I1			~	0								
														>
	Device :	Rockw	ell Etheri	Net/IP	(DF1)									\sim
Ļ	Device : Address type :	Rockw BIT3_(vell Etheri 37_11	Net/IP	(DF1)									~ ~
ļ	Device : Address type : Address :	Rockw BIT3_3 Bfn-30	vell Etheri 37_11 03711	Net/IP	(DF1)				_	Us	er-defi	ned tag	,	~
4 Ad	Device : Address type : Address : Idress format :	Rockw BIT3_3 Bfn-30	vell Etherl 37_11 03711 Ddd [ran	Net/IP	(DF1)	515]			C	⊡ Us	er-defi	ned tag	,	~
ر Ad	Device : Address type : Address : Idress format :	Rockw BIT3_3 Bfn-30 FFFDDI FFF (fil	vell Etherl 37_11 03711 Ddd [ran le no.) : (Net/IP	(DF 1) ~ 25525 5, dd (bit	515] : no.) :	00 ~ 1	5	C	Us	er-defi	ned ta <u>c</u>	9	~
ر Ad	Device : Address type : Address : Idress format :	Rockw BIT3_3 Bfn-30 FFFDDD FFF (fil	vell Etherl 37_11 03711 Ddd [ran le no.) : (Net/IP ge : 0 / 0 ~ 255	(DF1) ~ 25525 5, dd (bit	515] :no.) :	00 ~ 1 Index r	5 register	C	Us	er-defi	ned tag)	~
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Ad	Device : Address type : Address : Idress format :	Rockw BIT3_: Bfn-30 FFFDDI FFF (fil	vell Etheri 37_11 03711 Ddd [ran le no.) : (Net/IP ge : 0 ~ 0 ~ 255	(DF 1) ~ 25525: 5, dd (bit	515] : no.) :	00 ~ 1]Index r	5 register	C	Us	er-defi	ned ta <u>c</u>	3	~]
Ad	Device : Address type : Address : Idress format :	Rockw BIT3_: Bfn-30 FFFDDI FFF (fil	vell Etherl 37_11 03711 Ddd [ran le no.) : (Net/IP ge : 0 / 0 ~ 255	(DF 1) ~ 25525: 5, dd (bit	515] :no.) :	00 ~ 1:]Index r	5 register	C	Us	er-defi	ned tag)	~

3. Click on Address type. Select the tag and click OK.

ddress type : BI	T3_37_11		~	
Address :	0			
dress format : F F	Name	Data type	Description	
	BIT3_37_11	Bit		
	BIT54_6_10	Bit		
	INPUT0_20	Bit		
	INPUT1_46	Bit		
Tag Library	INPUT1_71	Bit		
	INPUT1_92	Bit		
	INT_BIT7_8_5	Bit		
	OUTPUT0_41	Bit		
	OUTPUT1_21	Bit		
	OUTPUT_2_4	Bit		

4. This Bit Lamp object is used to read states of **B54:6/10**.

New Bit Lamp	/Toggle Switch Object		×
General Secu	urity Shape Label		
Comm	ent:		
	Bit Lamp	O Toggle Switch	
Read addres	s		
Device :	Rockwell EtherNet/IP (DF1)) v Set	tings
Address :	BIT54_6_10 ~	Bfn-5400610	
	Invert signal		

5. Go to [Project] tab » [Online Simulation] to run online simulator.

📧 EasyBuild	B EasyBuilder Pro : EBProject1 - [10 - WINDOW_010]																	
File F	3 🖂 🔨 🌶	+	Project	Object	Data/History	lloT/Energy	View	Tool										
System Message Sett	Language & Font	Compile	Online Simulation	Offline Simulation	Download (PC->HMI) Build	Build Download Files	d Reboot HMI	Shape	Picture	A Label	⇒abC ××× String	Macro	(@≡ Address Library	Group	Sound	Records of Recipe Database	Control Token	
Windows Tree 🗸 🗸				4 10-WINDOW 010 X														
3 : Monitor Mode 4 : Common Window 5 : Device Response 6 : HMI Connection 7 : Password Restriction 8 : Storage Space Insufficient 9 : Backup ⊕ *10: WINDOW_010 11 12 13 14				^					BIT54	8_10 : Br	n-540081	D						



Founded in 1996, WEINTEK LABS is a global-leading HMI manufacturer and is dedicated to the development, design, and manufacturing of practical HMI solutions. WEINTEK LAB's mission is to provide quality, customizable HMI-solutions that meet the needs of all industrial automation requirements while maintaining customer satisfaction by providing "on-demand" customer service. WEINTEK LABS brought their innovative technology to the United States in 2016, WEINTEK USA, INC., to provide quality and expedient solutions to the North American industrial market.

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