

Mitsubishi FX5U - Binary Mode (Ethernet)

Supported Series: Mitsubishi FX5U ethernet module

Website: <http://www.mitsubishi-automation.com>

HMI Setting:

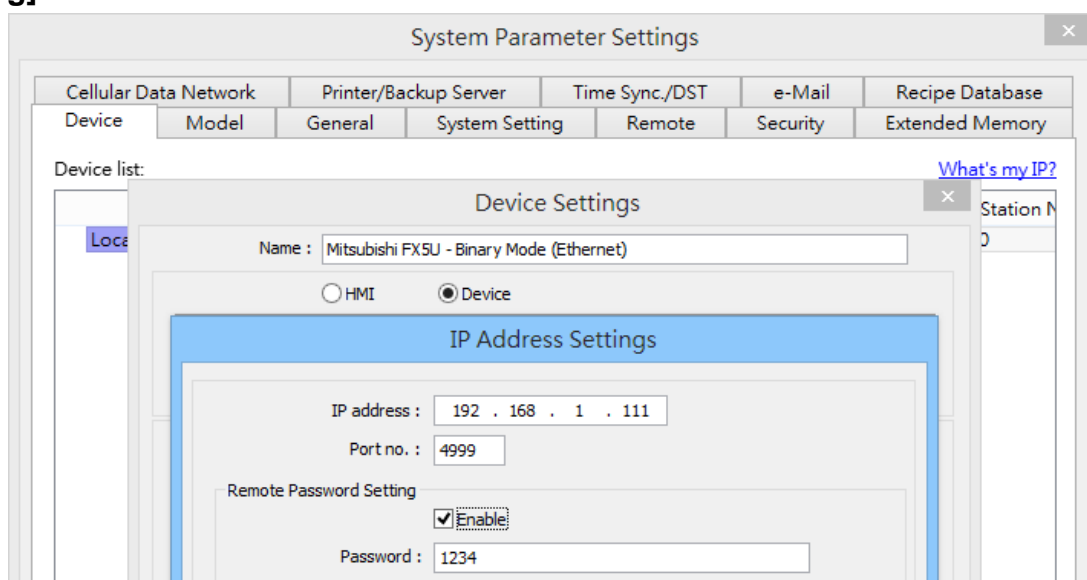
Parameters	Recommended	Options	Notes
PLC type	Mitsubishi FX5U - Binary Mode (Ethernet)		
PLC I/F	Ethernet		
Port no.	Set identically to the PLC setting		Advised to set port no. to 4999
PLC sta. no.	255		
Network number	0	0~999	

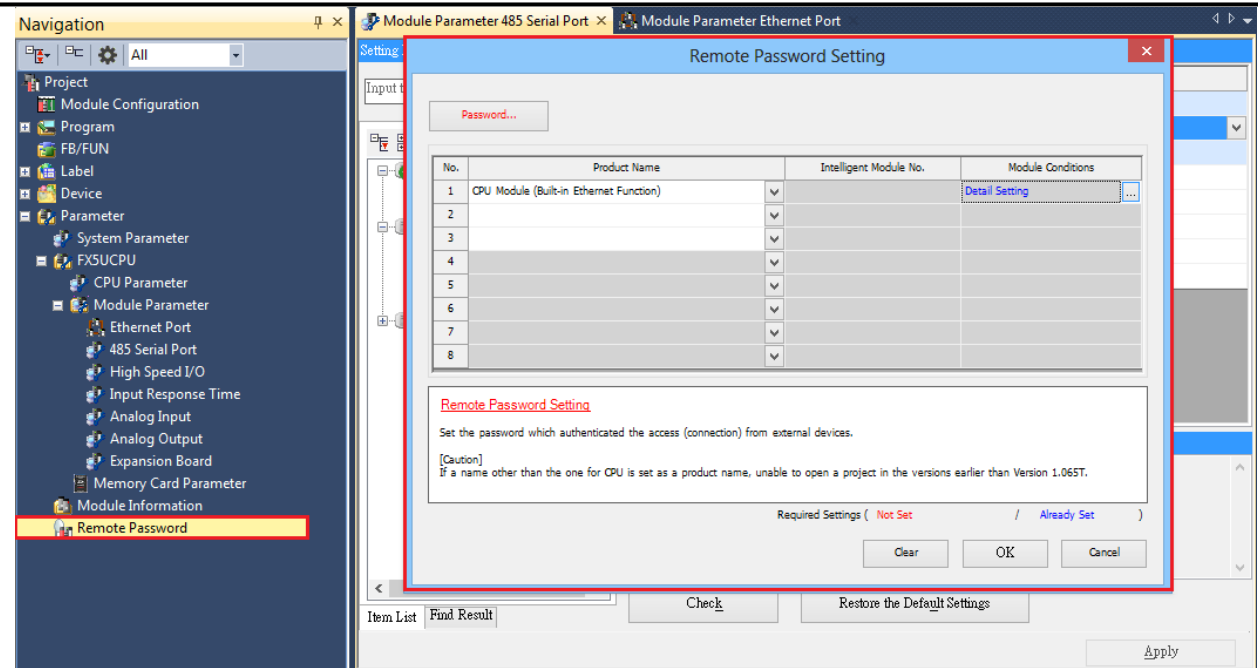
Online simulator YES

[Remote Password Setting]

Set a remote password and a target connection in the engineering tool, and write the data to the CPU module.

Navigation Window => **[Parameter]** => **[Remote Password]** => **[Remote Password Setting]** Screen





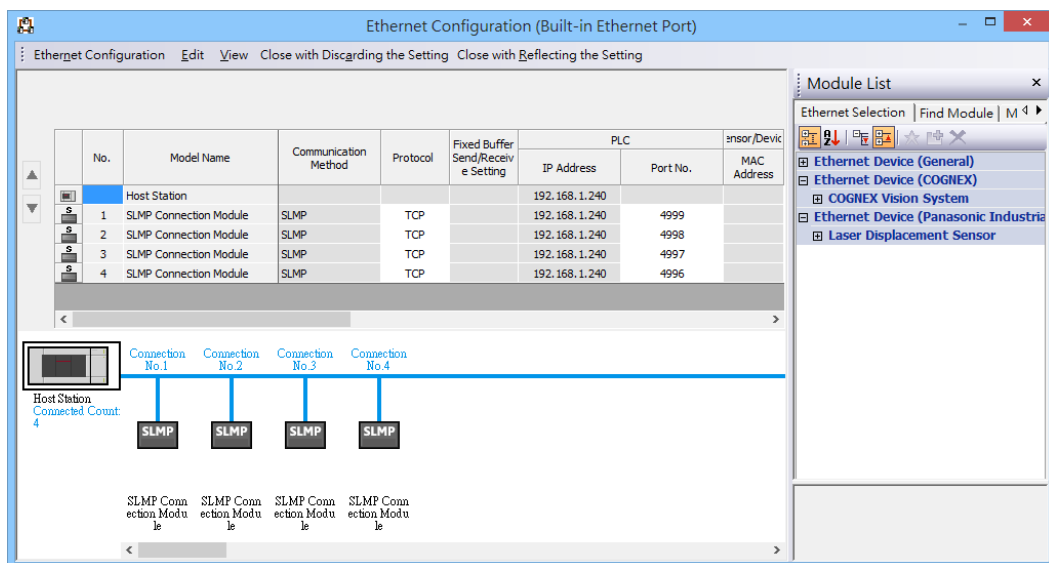
PLC Setting:

Communication Data Code	Binary
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[Ethernet Configuration]

To connect PLC with multiple HMIs, Port No. must be set.

In GX WORK 3, the setting steps are: Project -> Parameter -> FX5UCPU -> Module Parameter -> Ethernet Port -> Setting Item -> External Device Configuration -> Detailed Setting



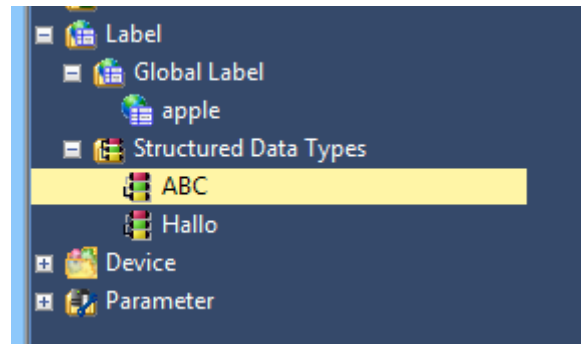
Device Address:

Bit/Word	Device type	Format	Range	Memo
B	LCS	DDDD	0 ~ 1023	Long counter Contact
B	LCC	DDDD	0 ~ 1023	Long counter Coil
B	SM	DDDD	0 ~ 9999	Special Relay
B	X	OOOO	0 ~ 1777	Input Relay
B	Y	OOOO	0 ~ 1777	Output Relay
B	M	DDDDD	0 ~ 32767	Internal Relay
B	L	DDDDD	0 ~ 32767	Latch Relay
B	F	DDDDD	0 ~ 32767	Annunciator
B	B	HHHH	0 ~ 7FFF	Link Relay
B	TS	DDDD	0 ~ 1023	Timer Contact
B	TC	DDDD	0 ~ 1023	Timer Coil
B	SS	DDDD	0 ~ 1023	Retentive Timer Contact
B	SC	DDDD	0 ~ 1023	Retentive Timer Coil
B	CS	DDDD	0 ~ 1023	Counter Contact
B	CC	DDDD	0 ~ 1023	Counter Coil
B	SB	HHHH	0 ~ 7FFF	Special Link Relay
B	S	DDDD	0 ~ 4095	Step relay
B	D_bit	DDDDh	0 ~ 7999F	Data Register bit
B	SD_bit	DDDDh	0 ~ 11999F	Special register Bit
B	R_bit	DDDDh	0 ~ 32767F	File Register Bit
B	SW_bit	HHHHh	0 ~ 7FFFF	Special Link Register Bit
B	W_bit	HHHHh	0 ~ 7FFFF	Link Register Bit
DW	LCN	DDDD	0 ~ 1023	Long counter Current Value
DW	LZ	D	0 ~ 1	Long Index Register
W	SD	DDDDD	0 ~ 11999	Special register
W	D	DDDD	0 ~ 7999	Data Register
W	R	DDDDD	0 ~ 32767	File Register
W	W	HHHH	0 ~ 7FFF	Link Register
W	TN	DDDD	0 ~ 1023	Timer Current value
W	SN	DDDD	0 ~ 1023	Retentive Timer Current value
W	CN	DDDD	0 ~ 1023	Counter Current value
W	SW	HHHH	0 ~ 7FFF	Special Link Register
W	Z	DD	0 ~ 19	Index Register

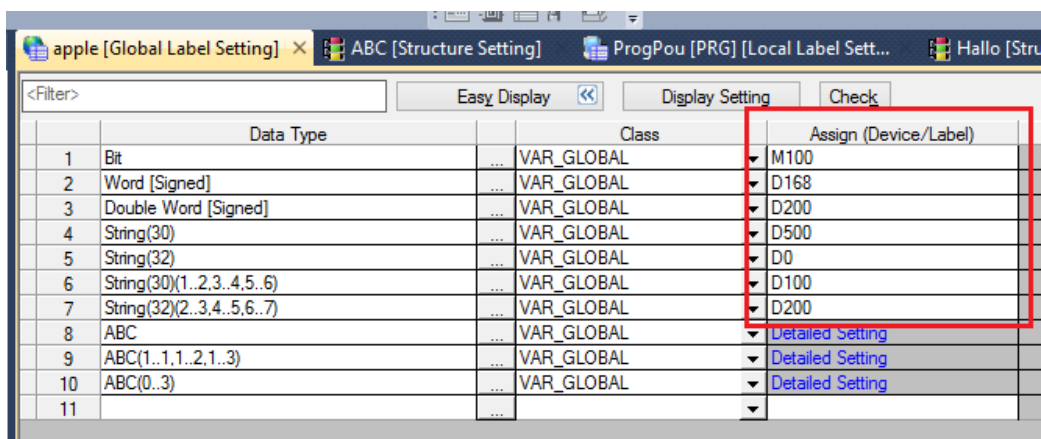
Import Tags:

GX Works3 Export Tags:

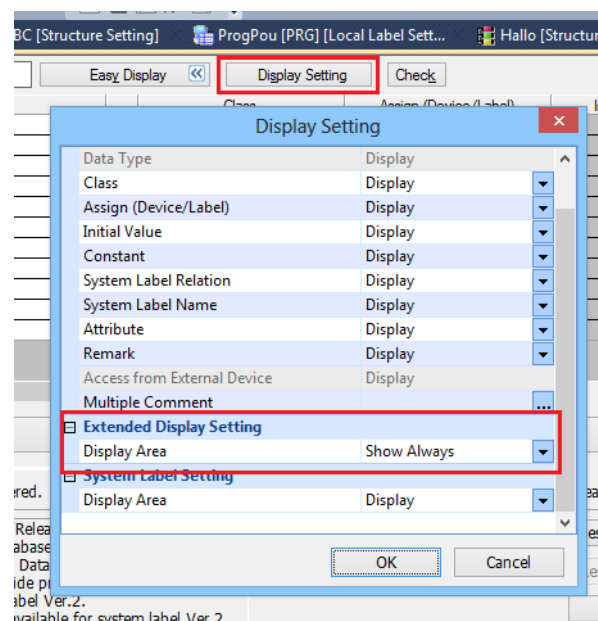
1. Add new data to [Global Label] and [Structure Data Types].



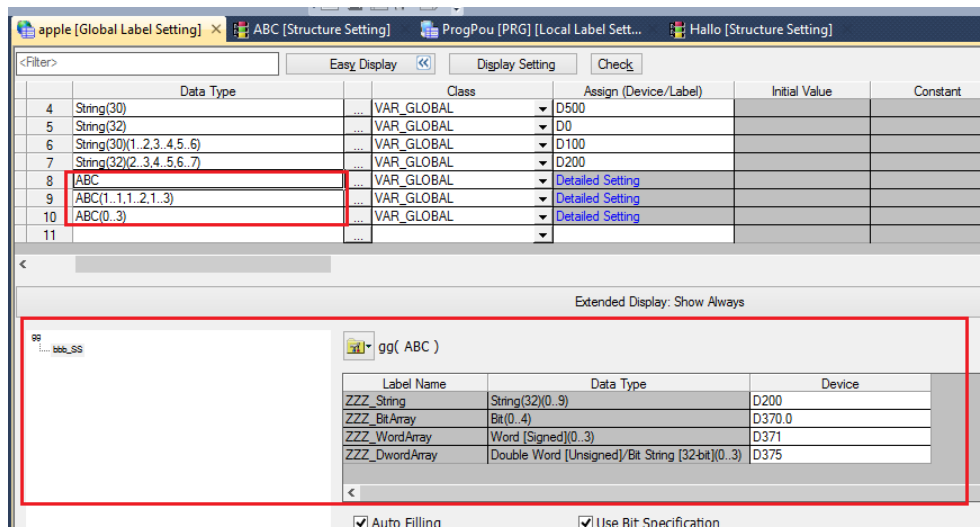
2. Assign Global label to device address.



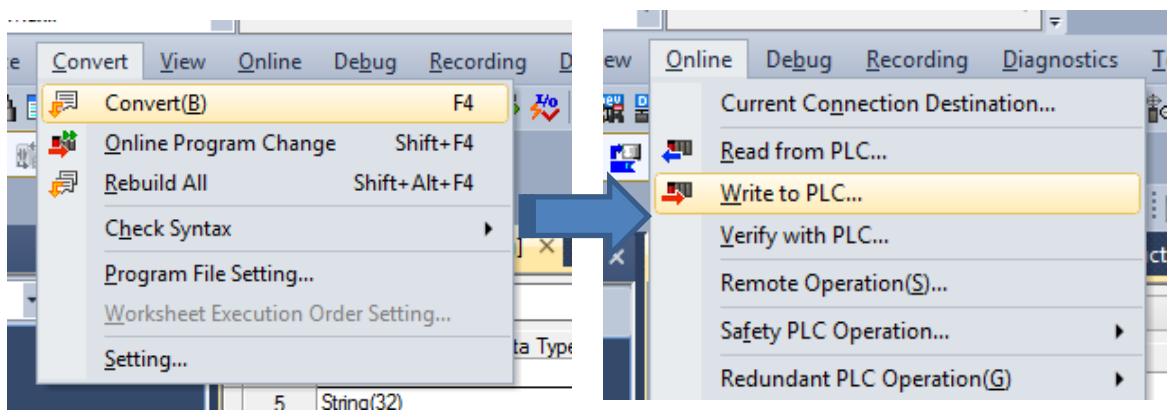
3. Display Setting -> Extended Display Setting -> Display Area -> Show Always



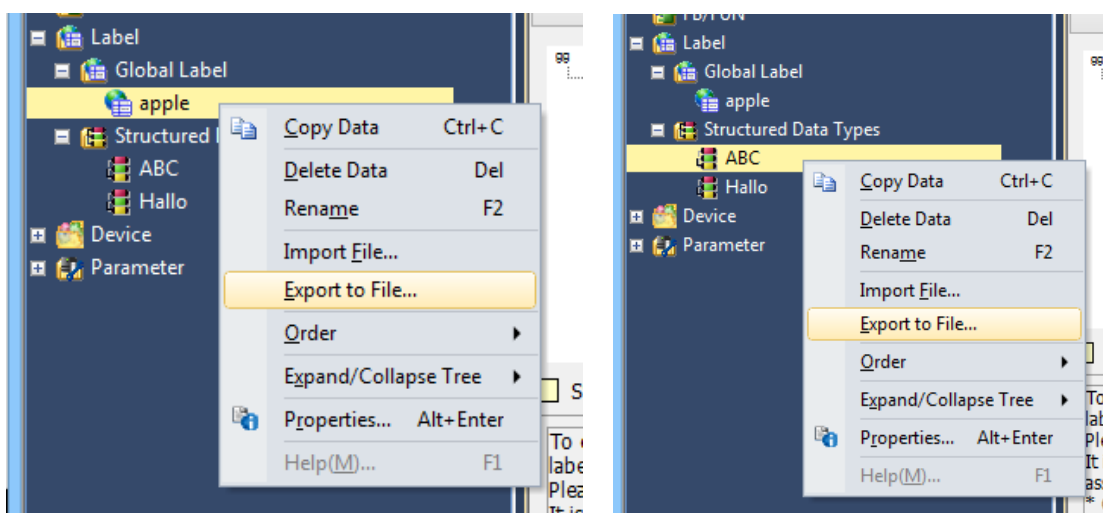
4. The structure data type can assign address after Extended display is set to show always.



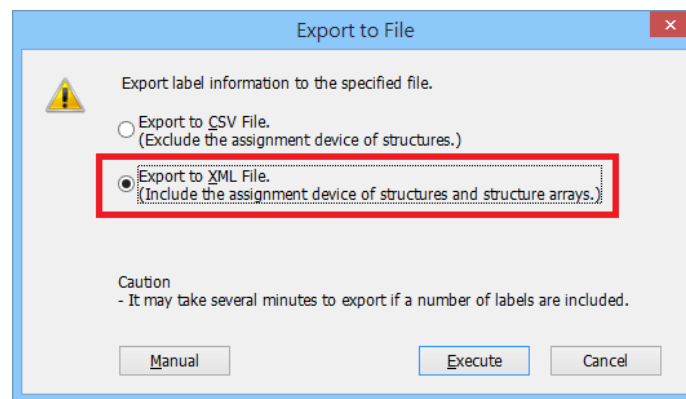
5. Covert -> Write to PLC



6. Right-click the data created by [Global Label] and [Structured Data Types], and then [Export to File].

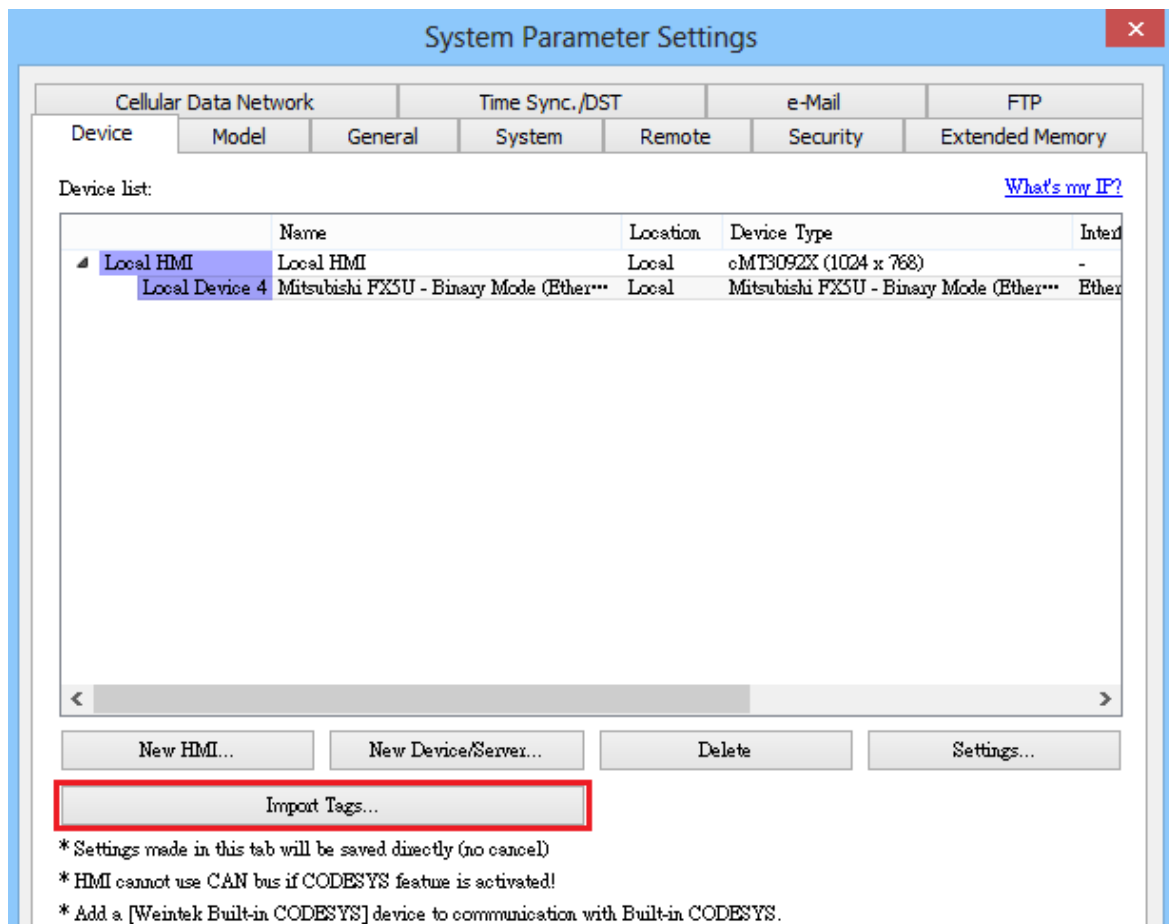


7. Export to XML File -> Execute.

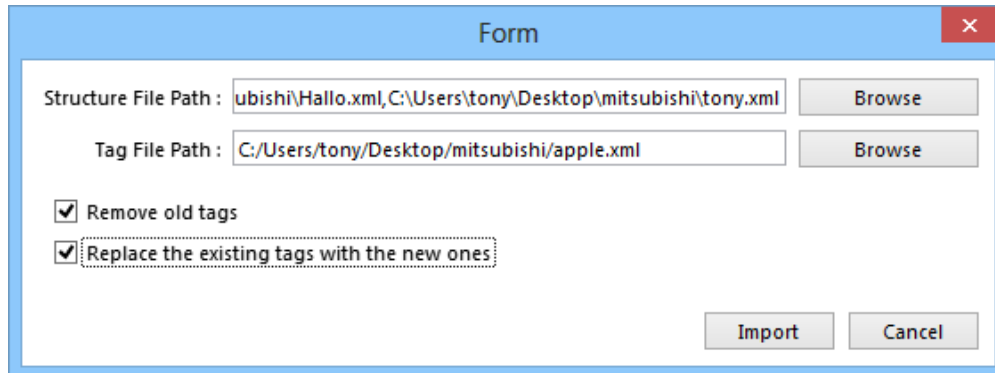


EasyBuilder Pro Import Tags:

1. After setting the **[System Parameters]** and creating the driver, click **[Import Tags]**.



2. Select the Global Label and Structure File to be imported (multiple selections possible), and then click Import



Form

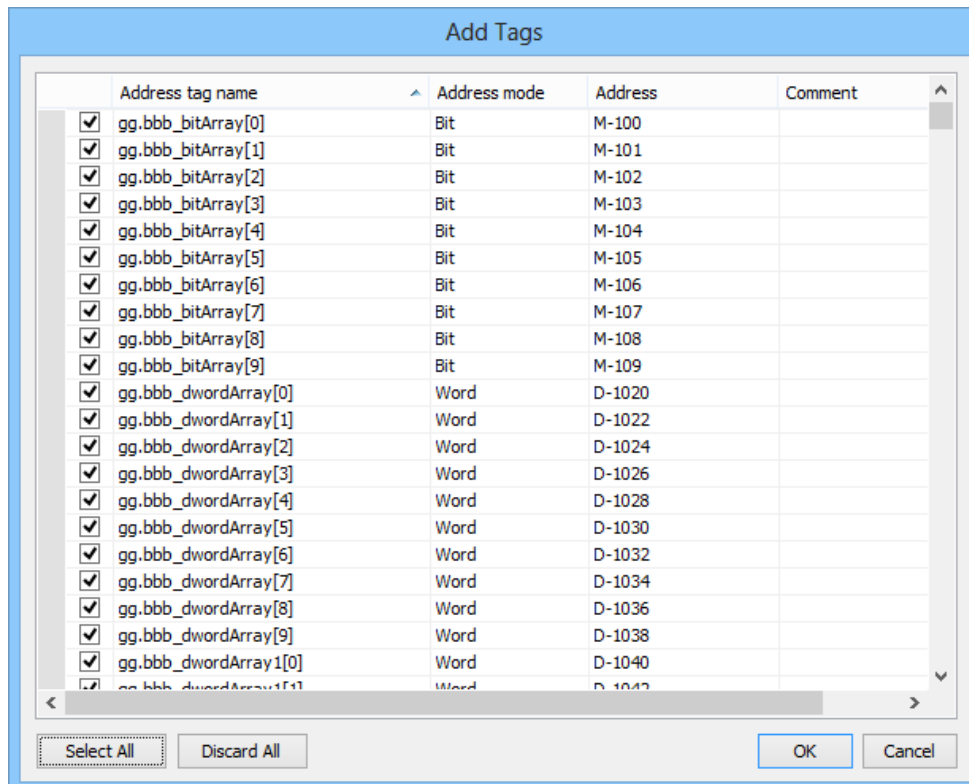
Structure File Path :

Tag File Path :

☒ Remove old tags

☒ Replace the existing tags with the new ones

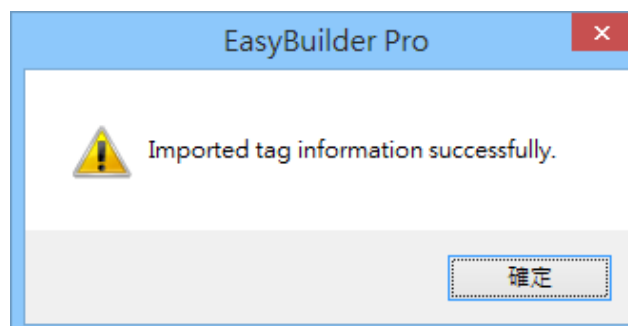
2. Select All or selectively import tags.




Add Tags

	Address tag name	Address mode	Address	Comment
<input checked="" type="checkbox"/>	gg.bbb_bitArray[0]	Bit	M-100	
<input checked="" type="checkbox"/>	gg.bbb_bitArray[1]	Bit	M-101	
<input checked="" type="checkbox"/>	gg.bbb_bitArray[2]	Bit	M-102	
<input checked="" type="checkbox"/>	gg.bbb_bitArray[3]	Bit	M-103	
<input checked="" type="checkbox"/>	gg.bbb_bitArray[4]	Bit	M-104	
<input checked="" type="checkbox"/>	gg.bbb_bitArray[5]	Bit	M-105	
<input checked="" type="checkbox"/>	gg.bbb_bitArray[6]	Bit	M-106	
<input checked="" type="checkbox"/>	gg.bbb_bitArray[7]	Bit	M-107	
<input checked="" type="checkbox"/>	gg.bbb_bitArray[8]	Bit	M-108	
<input checked="" type="checkbox"/>	gg.bbb_bitArray[9]	Bit	M-109	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[0]	Word	D-1020	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[1]	Word	D-1022	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[2]	Word	D-1024	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[3]	Word	D-1026	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[4]	Word	D-1028	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[5]	Word	D-1030	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[6]	Word	D-1032	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[7]	Word	D-1034	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[8]	Word	D-1036	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[9]	Word	D-1038	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[10]	Word	D-1040	
<input checked="" type="checkbox"/>	gg.bbb_dwordArray[11]	Word	D-1042	

3. Imported tag information successfully.



EasyBuilder Pro

 Imported tag information successfully.

Limitations:

1. Structure in structure and array in structure are not supported.
2. If TN, CN, LCN, SN and other addresses are used in the structure, three members of **Contact**, **Coil**, and **Current Value** will be automatically generated
3. The String type will end with 0x00. If the length is set to 16 words, then a complete string will be 17 words in length.
4. Support data type list:

Data Type	Support
Bit	✓
Word [Unsigned] / Bit String [16-bit]	✓
Double Word [Unsigned] / Bit String [32-bit]	✓
Word [Signed]	✓
Double Word [Signed]	✓
FLOAT [Single Precision]	✓
Time	✓
String(32)	✓
Pointer	✗
Timer	✓
Counter	✓
Long Counter	✓
Retentive Timer	✓

Wiring Diagram:

Ethernet cable:

