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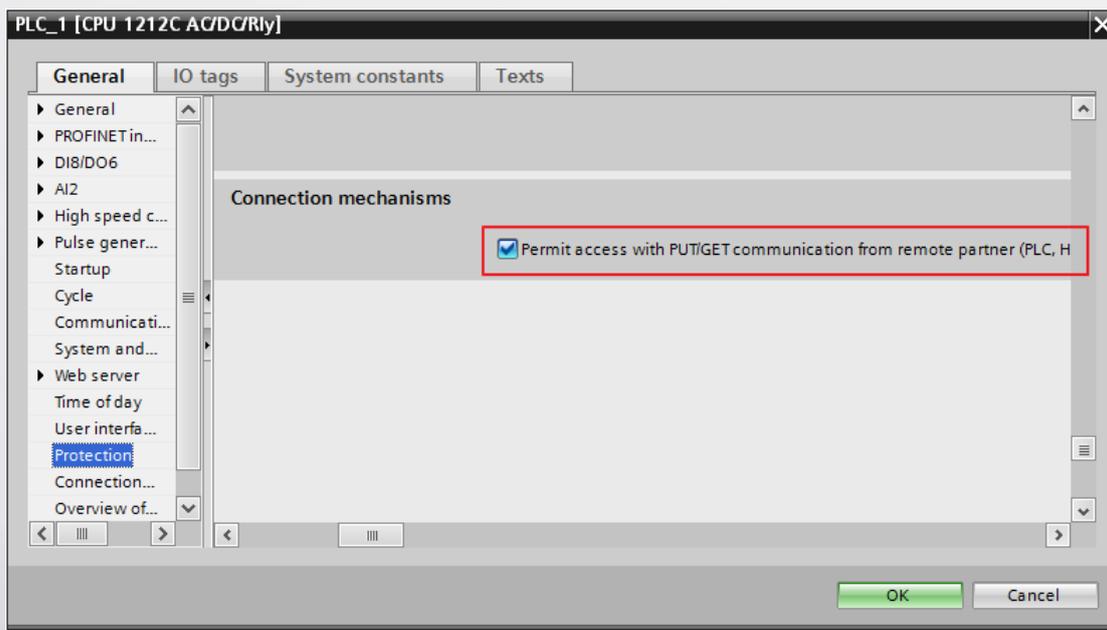
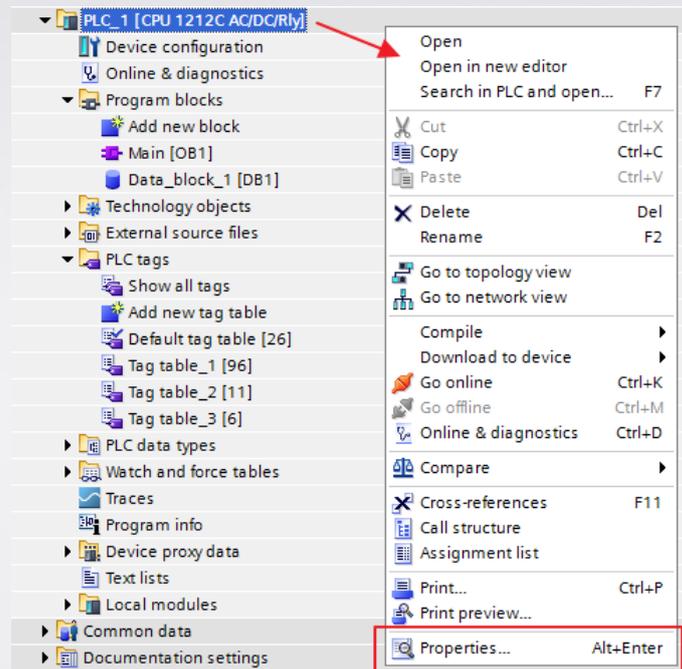
How to Establish Communication Between i Series HMI and S7-1200 FW V4.0 devices?

Recently, Siemens has made great changes in S7-1200 Firmware V4.0; therefore, S7-1200 driver can no longer establish communication between EasyBuilder8000 and S7-1200 Firmware V4.0. To establish communication between i Series HMI and S7-1200 Firmware V4.0 devices, please use S7-1500 driver.

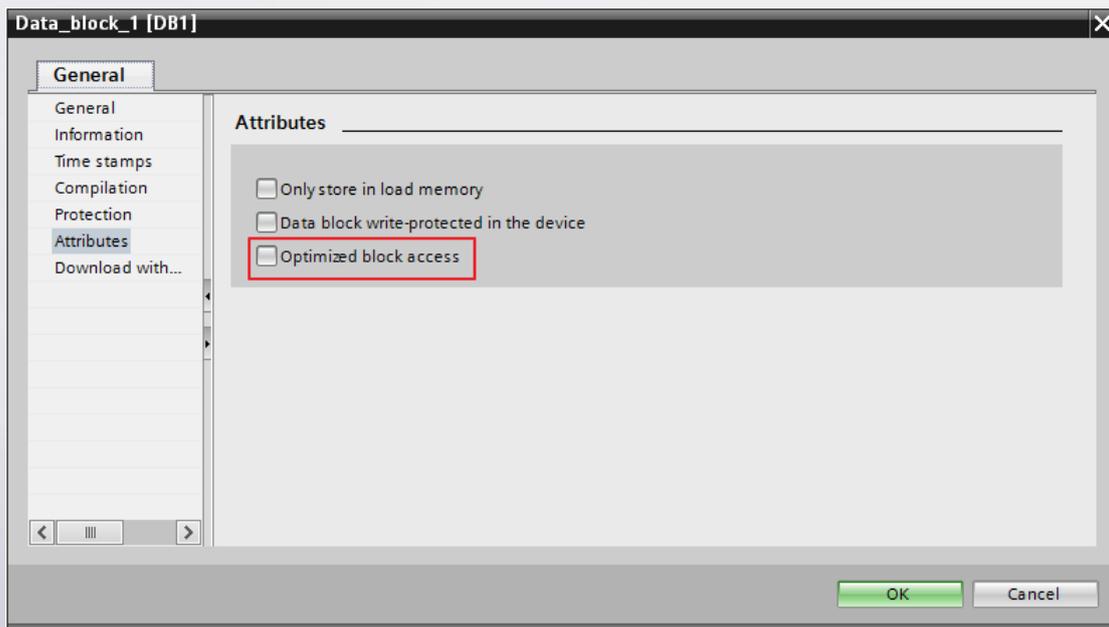
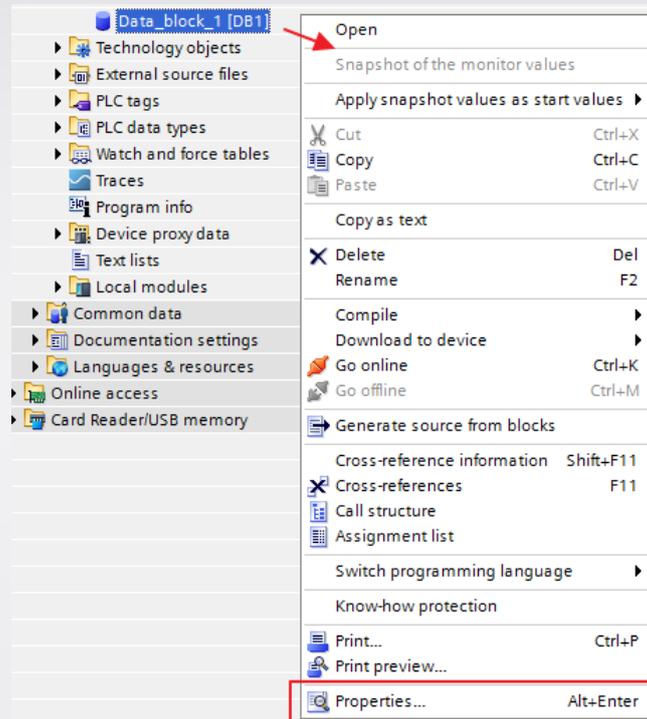
A.

Please follow the steps to set up the environment for communication, otherwise, error may occur.

Step 1. Select [General] » [Protection] » [Permit access with PUT/GET communication from remote partner] option.

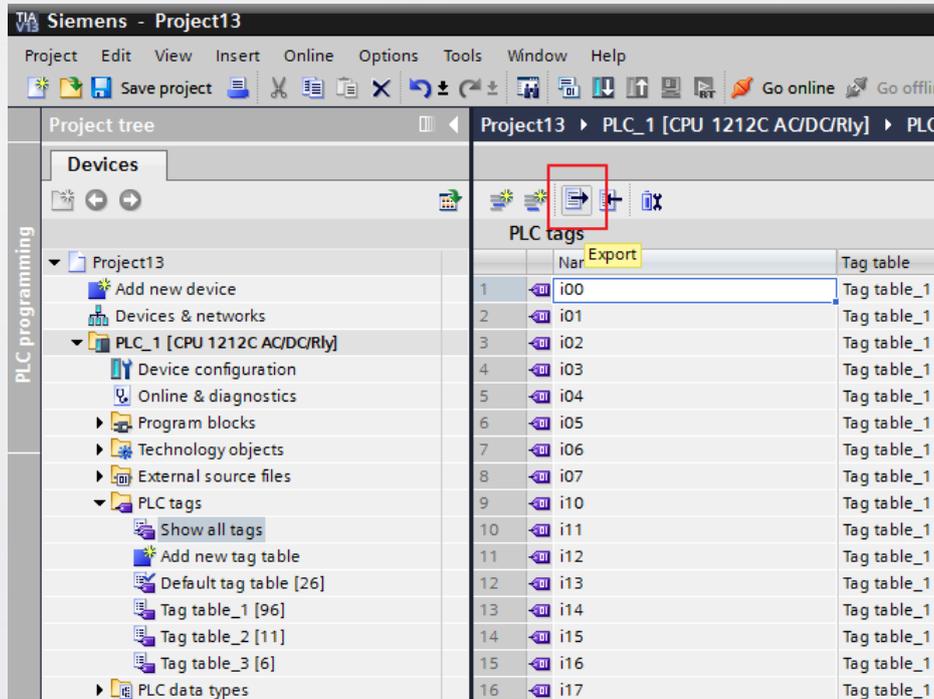


Step 2. Please do **not** select [DB UTILITAIRES] » [Attributes] » [Optimized block access]. Note that the option in all Data Blocks should **not** be selected.

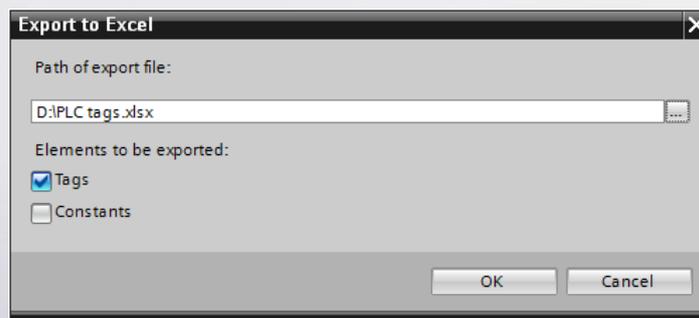


The following part explains how to import address tags using TIA.

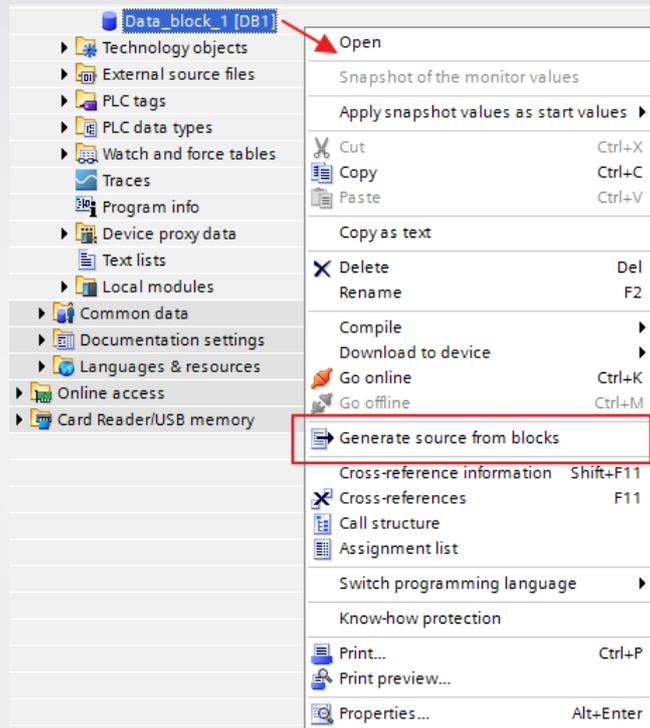
Step 1. Export PLC Tags (.xlsx file format). Under [PLC tags] create the address tags and then click the Export icon.



Designate the directory to save the file and then click OK button.

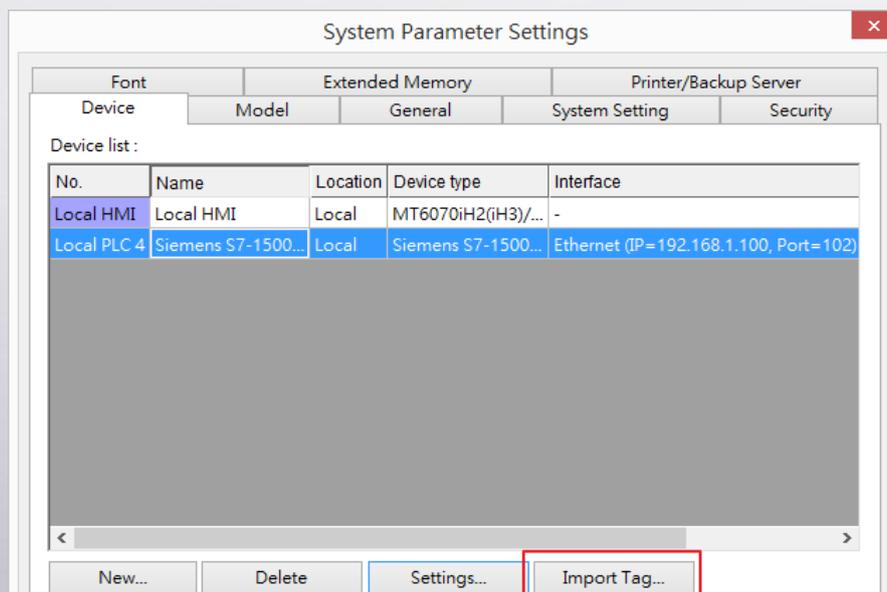


Step 2. Export Data Blocks (.scl file format). Under [Data blocks] create “Data_block_1 [DB1]” as shown in the following figure. Click the right mouse button on [DB1] and then click [Generate source from blocks] to generate .scl file.

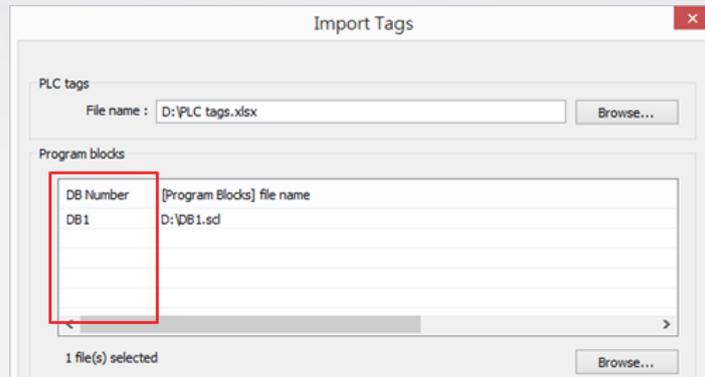


Step 3. In EasyBuilder8000, click [New PLC...], select “Siemens S7-1500 (Ethernet)”, and then click [Settings...] to set the parameters.

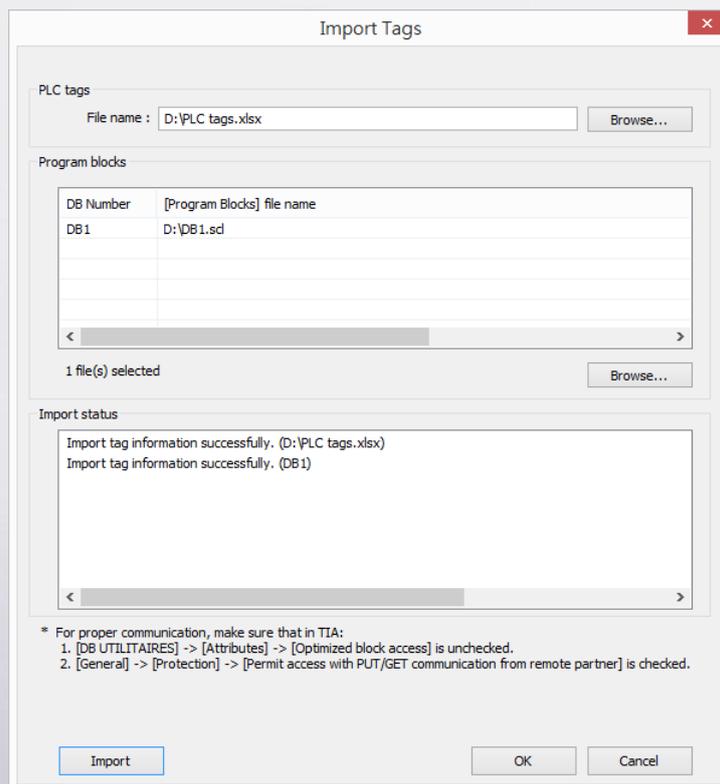
Step 4. Click [Import Tag...] button.



Step 5. Select the PLC tags and Data Blocks to be imported. Please check if the DB Number is correct.



Step 6. Click [Import], a message will be displayed after successful import, click OK button to leave.



Supported data types:

S7-1200 Data Type	EasyBuilder Data Format	Memo
Bool	bit	
Byte	16-bit BCD, Hex, Binary, Unsigned	8-bit
SInt	16-bit BCD, Hex, Binary, Signed	8-bit
USInt	16-bit BCD, Hex, Binary, Unsigned	8-bit
Word	16-bit BCD, Hex, Binary, Unsigned	16-bit
Int	16-bit BCD, Hex, Binary, Signed	16-bit
UInt	16-bit BCD, Hex, Binary, Unsigned	16-bit
DWord	32-bit BCD, Hex, Binary, Unsigned	32-bit
DInt	32-bit BCD, Hex, Binary, Signed	32-bit
Real	32-bit Float	32-bit
UDInt	32-bit BCD, Hex, Binary, Unsigned	32-bit
Array	Word array for ASCII input and display	Length=word