

Siemens S7-300/ET200S (Ethernet)

Supported Series: Siemens S7-300 Ethernet Series PLC, Ethernet module CP-343-1, CPU315-2 PN/DP, CPU317-2 PN/DP, CPU319-3 PN/DP, and ET200S.

Website: <http://www.siemens.com/entry/cc/en/>

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	SIEMENS S7-300/ET200S (Ethernet)		
PLC I/F	Ethernet		
Port no.	102		
PLC sta. no.	1	0-31	

In V3.00 and later versions, setting **[Interval of block pack]** to 0 can optimize efficiency.

The screenshot shows the configuration window for a Siemens S7-300/ET200S (Ethernet) PLC. The 'Name' field is set to 'SIEMENS S7/300 (Ethernet)'. The 'Location' is set to 'Local'. The 'PLC type' is set to 'Siemens S7-300/ET200S (Ethernet)'. The 'PLC I/F' is set to 'Ethernet'. The 'IP' is set to '192.168.1.170' and the 'Port' is set to '102'. The 'PLC default station no.' is set to '1'. The 'Interval of block pack (words)' is set to '0', which is highlighted with a red box. The 'Max. read-command size (words)' and 'Max. write-command size (words)' are both set to '20'. The 'OK' and 'Cancel' buttons are at the bottom right.

Device Address:

Bit/Word	Device type	Format	Range	Memo
B	I	DDDDo	0 ~ 99997	Input (I)
B	Q	DDDDo	0 ~ 99997	Output (O)
B	M	DDDDo	0 ~ 99997	Bit Memory
B	DBnBit	FFFFFFDDDDo	0 ~ 6553599997	
B	DBxBit	FFFFFFDDDDDo	0 ~ 10700655357	
B	DB1Bit-DB99Bit	DDDDDo	0 ~ 655357	Data Register Bit
W	IW	DDDD	0 ~ 9999	Input (I)
W	QW	DDDD	0 ~ 9999	Output (O)
Byte	MB	DDDD	0 ~ 9999	Bit Memory Byte
W	MW	DDDD	0 ~ 9999	Bit Memory
DW	MD	DDDD	0 ~ 9998	Bit Memory Double Word
DW	MD_Anyaddr	DDDD	0 ~ 9998	Bit Memory Double Word (must be even)
Byte	DBBn	FFFFFFDDDD	0 ~ 655359999	Data Register Byte
Byte	DBBx	FFFFFFDDDD	0 ~ 1070065535	
W	DBn	FFFFFFDDDD	0 ~ 655359999	Data Register (must be even)
W	DBx	FFFFFFDDDD	0 ~ 1070065535	
DW	DBDn	FFFFFFDDDD	0 ~ 655359999	Data Register Double Word (must be even)
DW	DBDx	FFFFFFDDDD	0 ~ 1070065535	
DW	DBDn_Anyaddr	FFFFDDDD	0 ~ 40969999	Data Register Double Word (must be even)
W	DBn_String	FFFFFFDDDD	0 ~ 655359999	
W	DBx_String	FFFFFFDDDD	0 ~ 1070065535	
W	DBn_String1	FFFFFFDDDD	0 ~ 655359999	
W	DBx_String1	FFFFFFDDDD	0 ~ 1070065535	
DW	DBDn_String	FFFFFFDDDD	0 ~ 655359999	
DW	DBDx_String	FFFFFFDDDD	0 ~ 1070065535	
W	DB1 ~ DB99	DDDD	0 ~ 65535	Data Register(must be even)
W	T	DDDD	0 ~ 65535	
W	C	DDDD	0 ~ 65535	

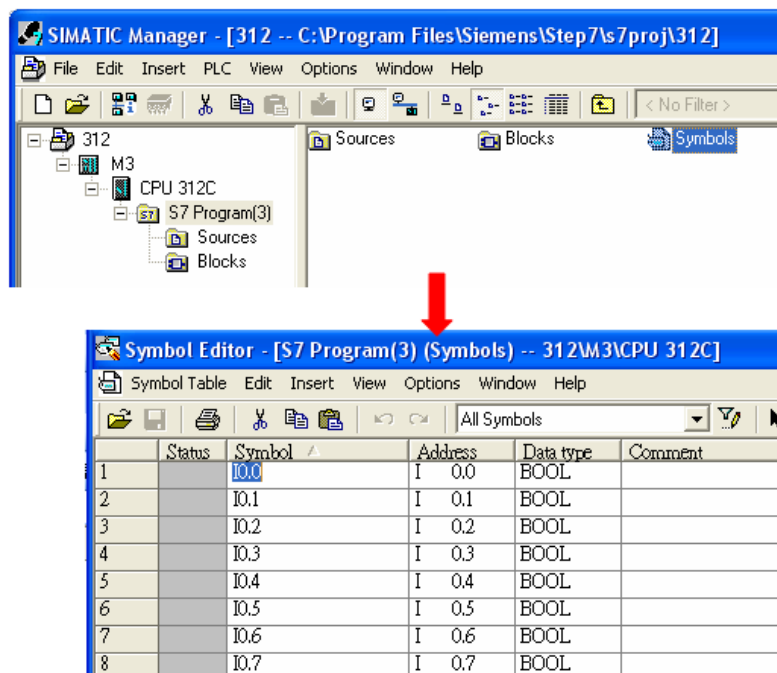
- Double word and floating point value must use DBDn device type.

How to Import Tag:

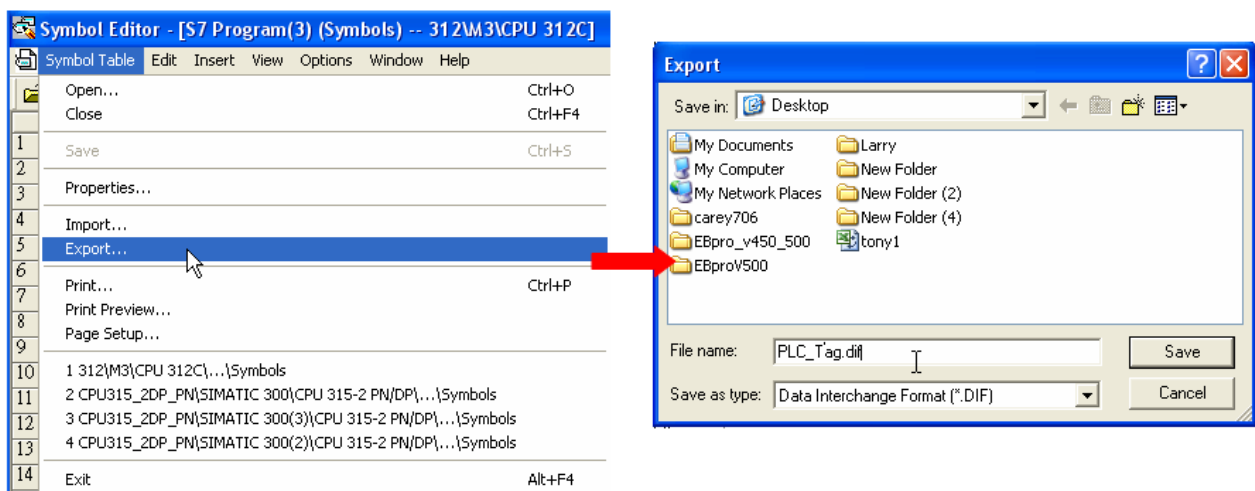
SIEMENS STEP 7 program allows building files of user-defined tag (*.dif file and *.AWL file), and import these files in EasyBuilder8000/EasyBuilderPro -> System Parameter Settings. The following describes how to build and import these two types of files.

1. Building *.dif File

- a、In “Symbols” create user-defined tag.

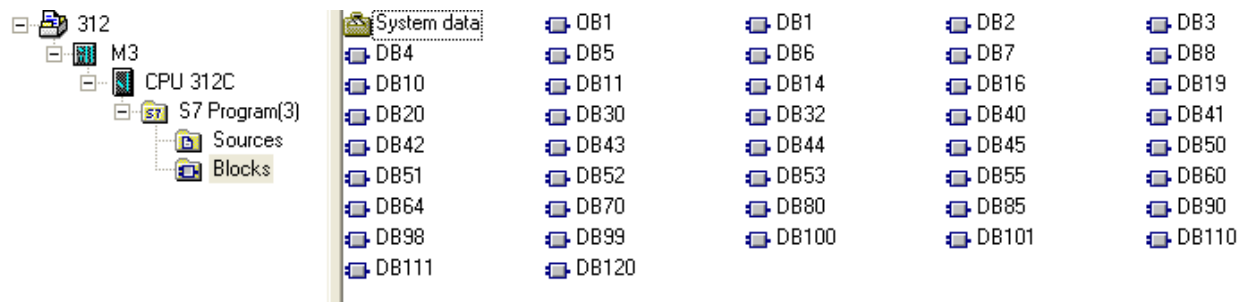


- b、Click **Export** to export the edited file and click **Save**.

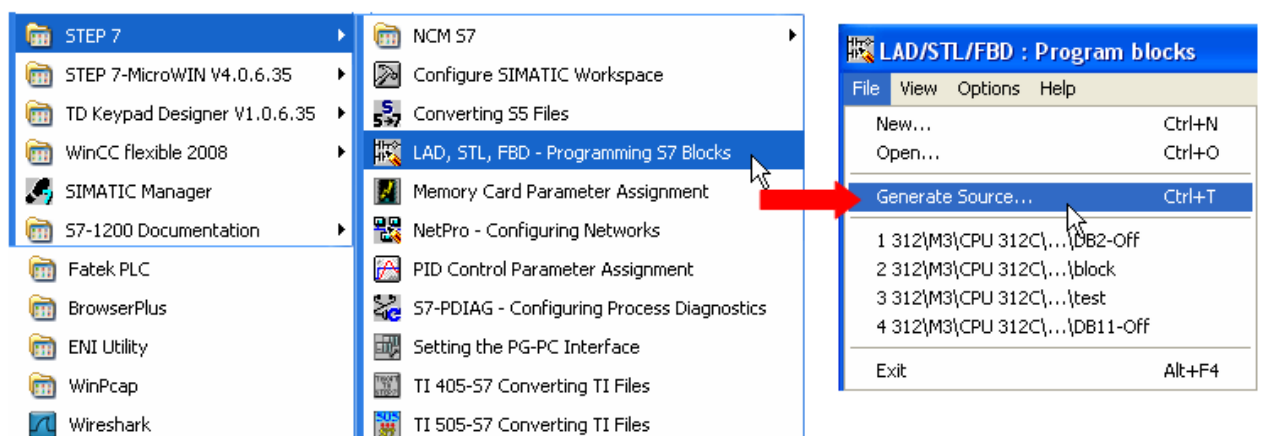


2. Building *.AWF File

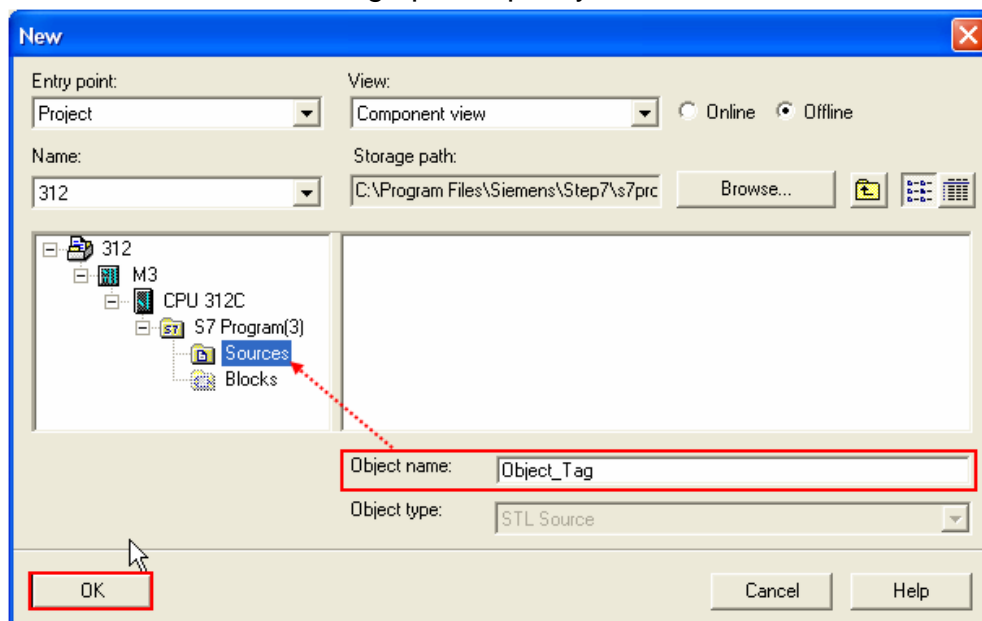
a、 In **Blocks** create items as shown below:



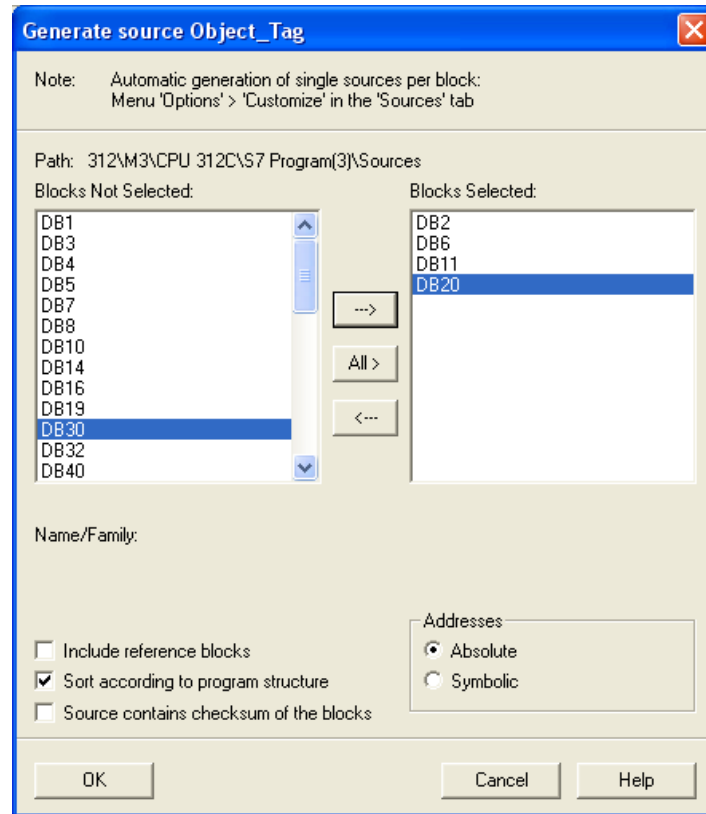
b、 Open **LAD/STL, FBD – Programming S7 Blocks**, click **File -> Generate Source**.



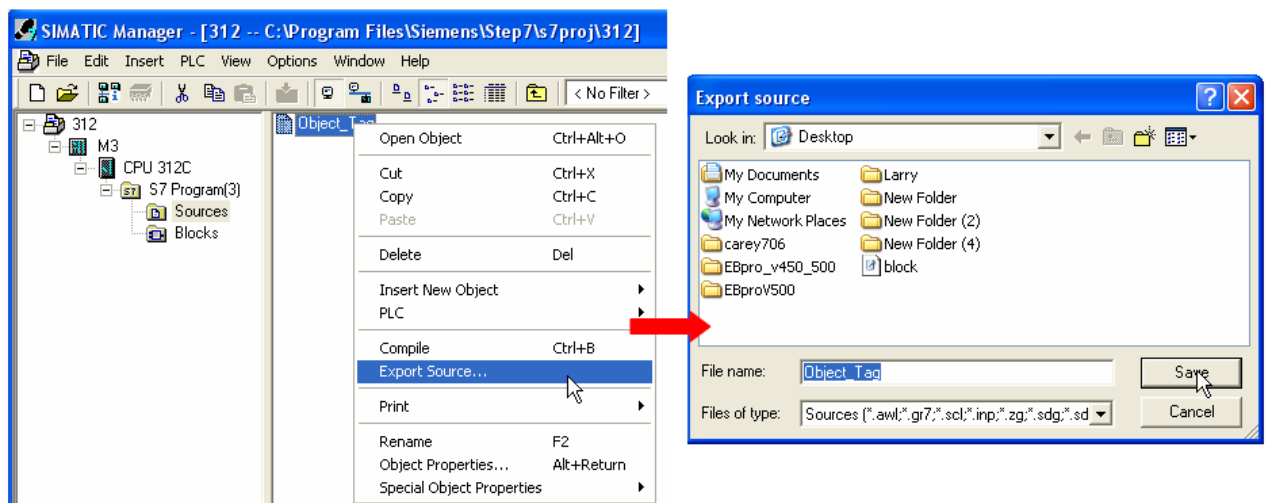
c、 Select **Sources** as storage path, specify the file name then click **OK**.



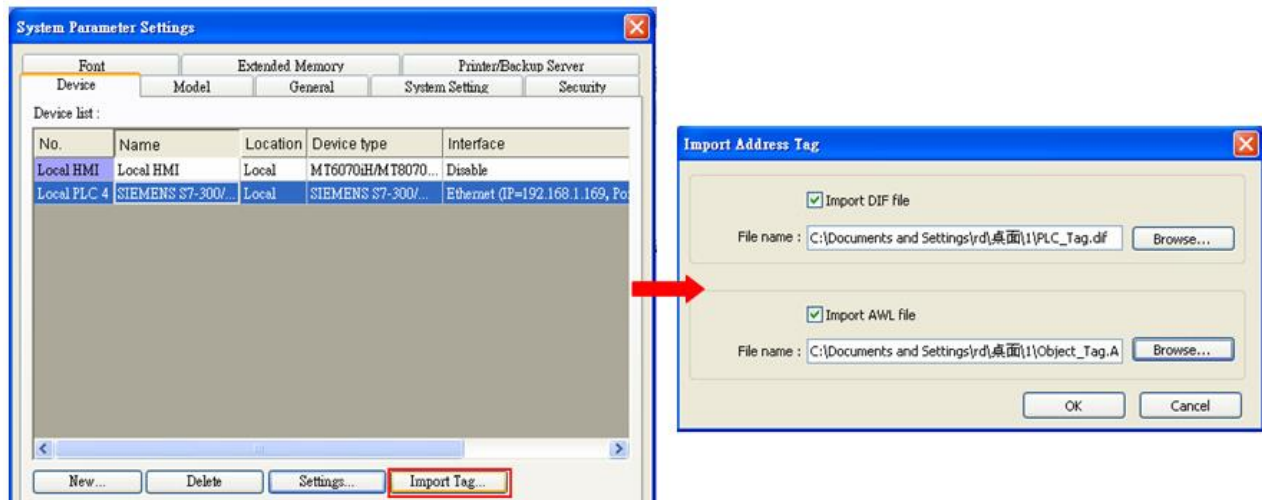
d、 Select the objects to be exported then click **OK**.



e、 Under **Sources** there will be names of the saved files, select **Export Source** to build *.AWL file.



The generated *.dif and *.AWL files can be imported in EasyBuilder8000/EasyBuilderPro **System Parameter Settings**, by clicking **Import Tag**.



Tag information successfully imported.



Wiring Diagram:

Ethernet cable:

