

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 dialog for a Siemens S7-300/ET200S (Ethernet) PLC. The settings are as follows:

- Name: SIEMENS S7/300 (Ethernet)
- Mode: PLC
- Location: Local
- PLC type: Siemens S7-300/ET200S (Ethernet)
- PLC I/F: Ethernet
- IP: 192.168.1.170, Port=102
- Use UDP (User Datagram Protocol):
- PLC default station no.: 1
- Default station no. use station no. variable:
- Use broadcast command:
- Interval of block pack (words): 0
- Max. read-command size (words): 20
- Max. write-command size (words): 20

The 'Interval of block pack (words)' field is highlighted with a red box, indicating the recommended setting for optimization in V3.00 and later versions.

Device Address:

Bit/Word	Device type	Format	Range	Memo
B	I	DDDDo	0 ~ 40957	Input (I)
B	Q	DDDDo	0 ~ 40957	Output (O)
B	M	DDDDo	0 ~ 40957	Bit Memory
B	DBnBit	FFFFFFDDDDo	0 ~ 655359997	
B	DBxBit	FFFFFFDDDDDo	0 ~ 10700655327	
B	DB1Bit-DB99Bit	DDDDDo	0 ~ 655327	Data Register Bit
W	IW	DDDD	0 ~ 4095	Input (I)
W	QW	DDDD	0 ~ 4095	Output (O)
Byte	MB	DDDD	0 ~ 4095	Bit Memory Byte
W	MW	DDDD	0 ~ 4095	Bit Memory
DW	MD	DDDD	0 ~ 4094	Bit Memory Double Word
DW	MD_Anyaddr	DDDD	0 ~ 4094	Bit Memory Double Word (must be even)
Byte	DBBn	FFFFFFDDDD	0 ~ 655359999	Data Register Byte
Byte	DBBx	FFFFFFDDDD	0 ~ 1070065532	
W	DBn	FFFFFFDDDD	0 ~ 655359999	Data Register (must be even)
W	DBx	FFFFFFDDDD	0 ~ 1070065532	
DW	DBDn	FFFFFFDDDD	0 ~ 655359999	Data Register Double Word (must be even)
DW	DBDx	FFFFFFDDDD	0 ~ 1070065532	
DW	DBDn_Anyaddr	FFFFDDDD	0 ~ 40969999	Data Register Double Word (must be even)
W	DBn_String	FFFFFFDDDD	0 ~ 655359999	
W	DBx_String	FFFFFFDDDD	0 ~ 1070065532	
W	DBn_String1	FFFFFFDDDD	0 ~ 655359999	
W	DBx_String1	FFFFFFDDDD	0 ~ 1070065532	
DW	DBDn_String	FFFFFFDDDD	0 ~ 655359999	
DW	DBDx_String	FFFFFFDDDD	0 ~ 1070065532	
W	DB1 ~ DB99	DDDD	0 ~ 65532	Data Register(must be even)

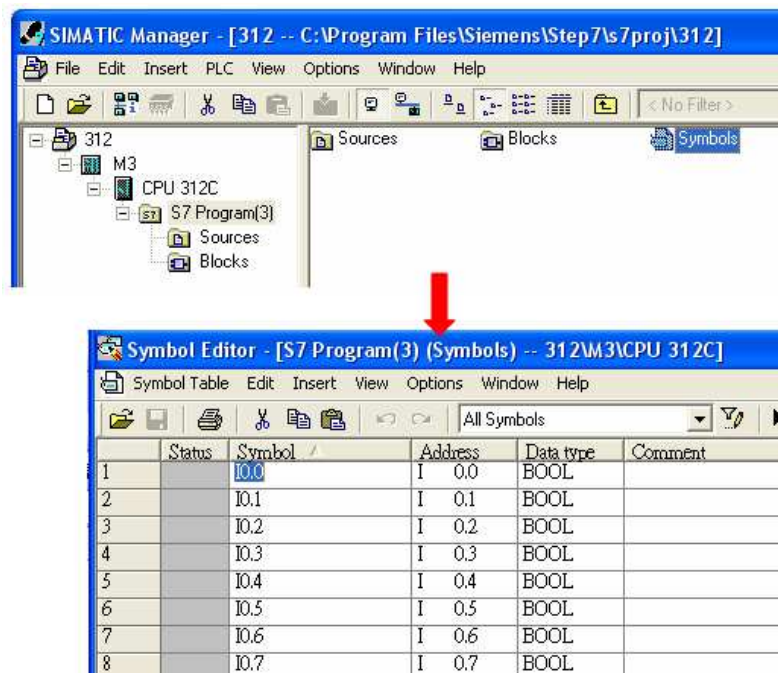
- Double word and floating point value must use DBDn device type.

How to Import Tag:

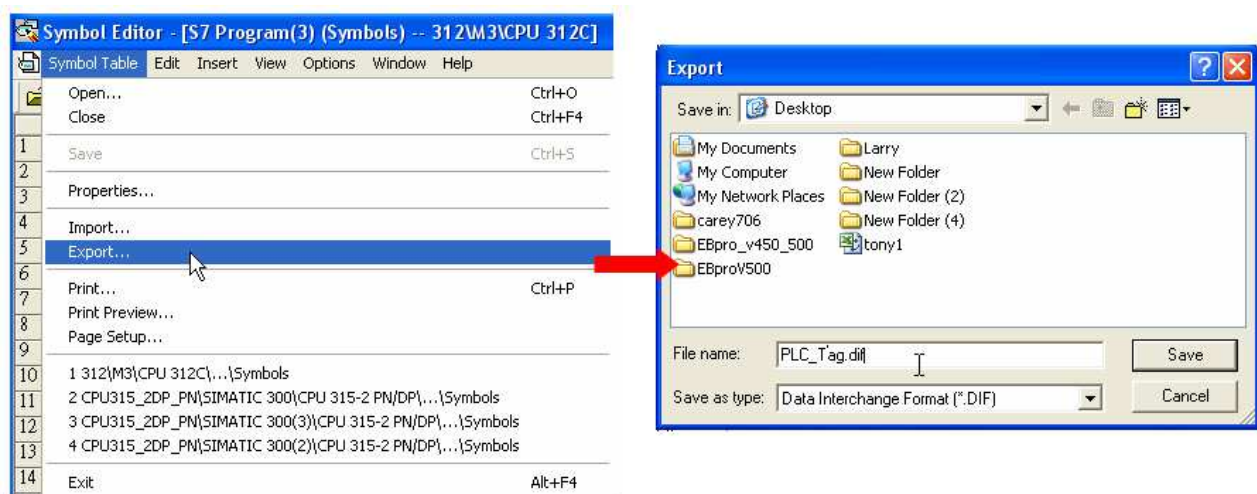
SIEMENS STEP 7 program allows building files of user-defined tag (*.dif file and *.AWL file), and import these files in EasyBuilder8000/EasyBuilderPro -> System Parameter Settings. The following describes how to build and import these two types of files.

1. Building *.dif File

- a. In "Symbols" create user-defined tag.

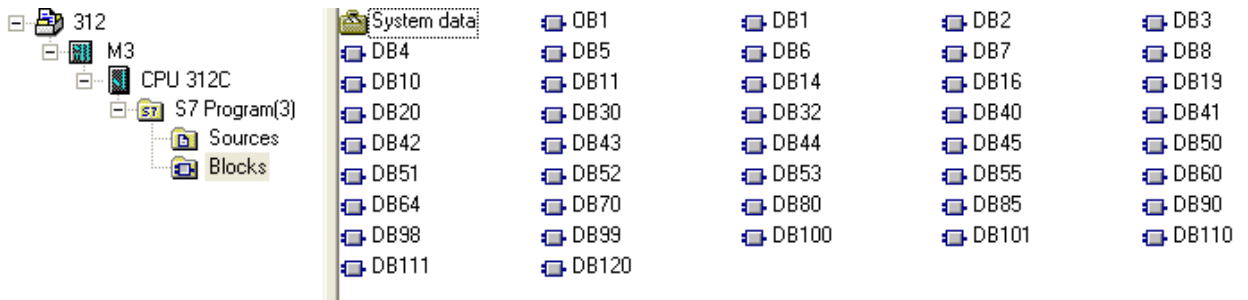


- b. Click **Export** to export the edited file and click **Save**.

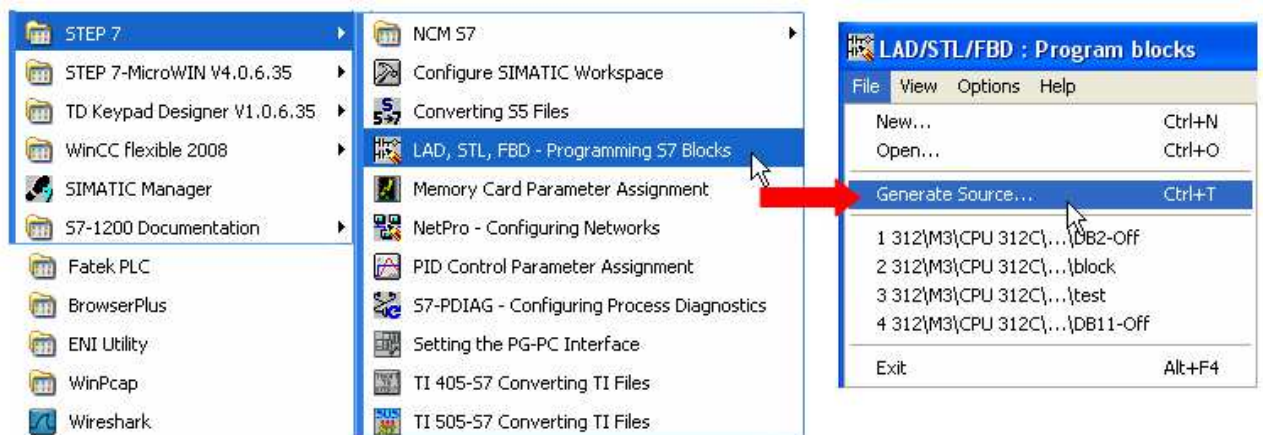


2. Building *.AWF File

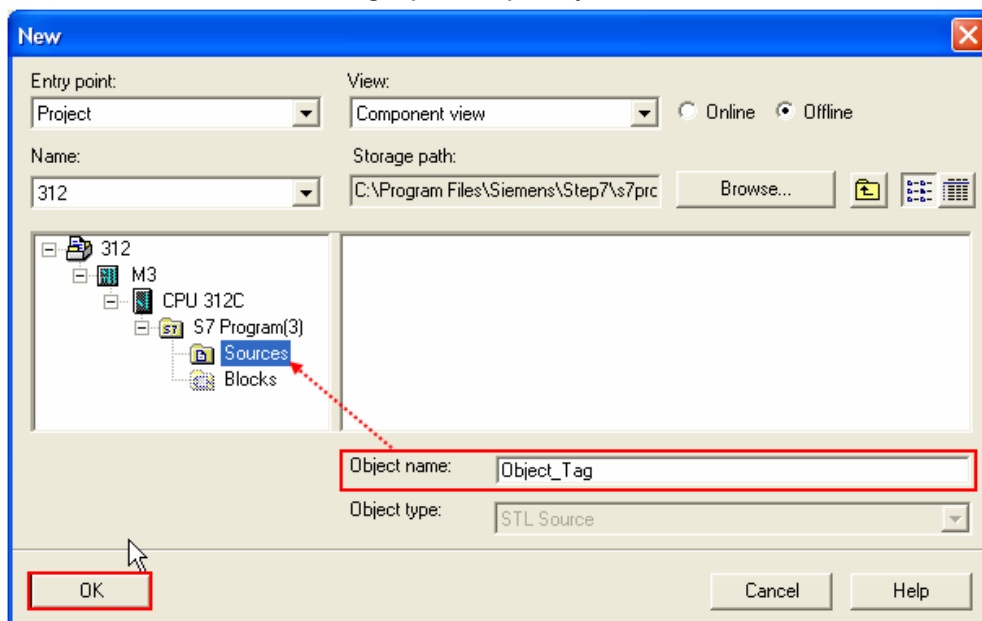
a. In **Blocks** create items as shown below:



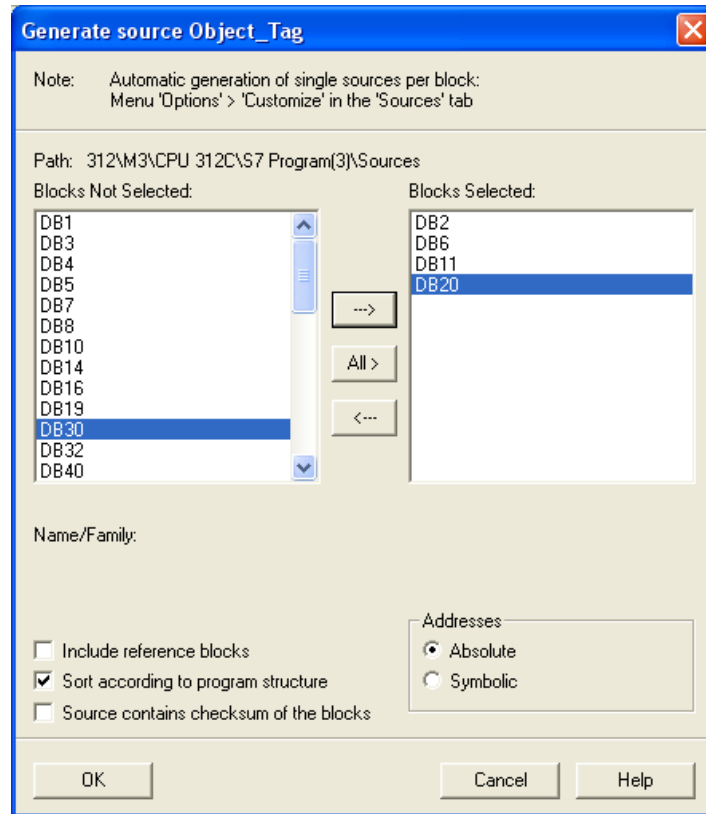
b. Open **LAD/STL, FBD – Programming S7 Blocks**, click **File -> Generate Source**.



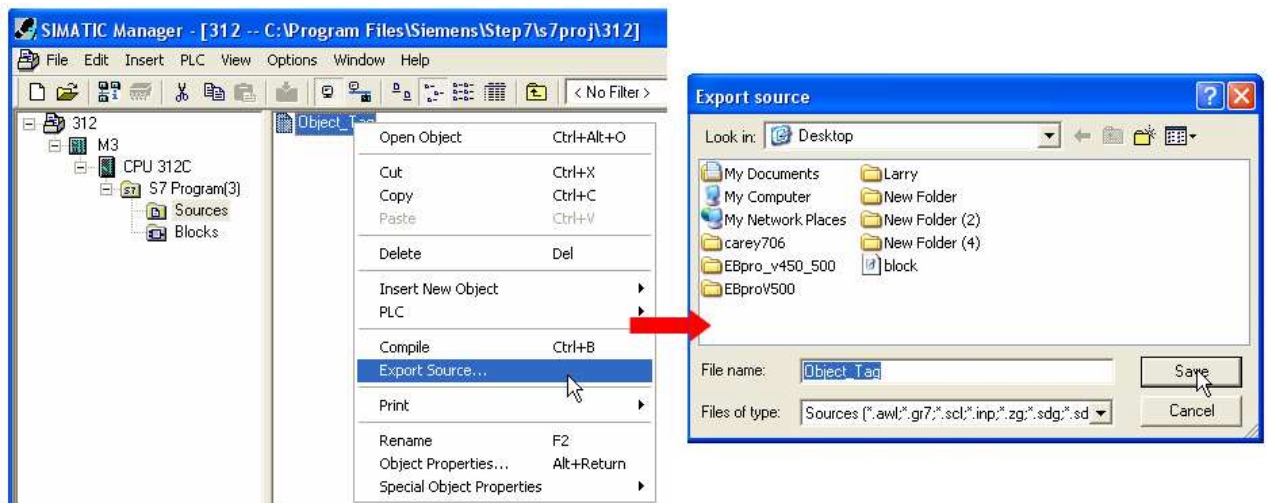
c. Select **Sources** as storage path, specify the file name then click **OK**.



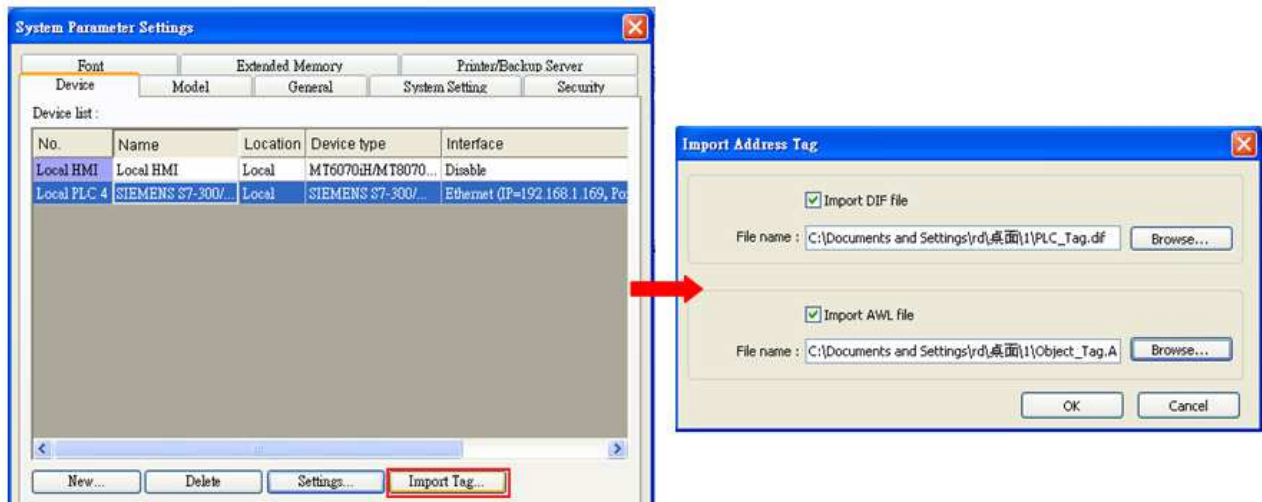
d、 Select the objects to be exported then click **OK**.



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:

