

Siemens S7-300/ET200S (Ethernet)

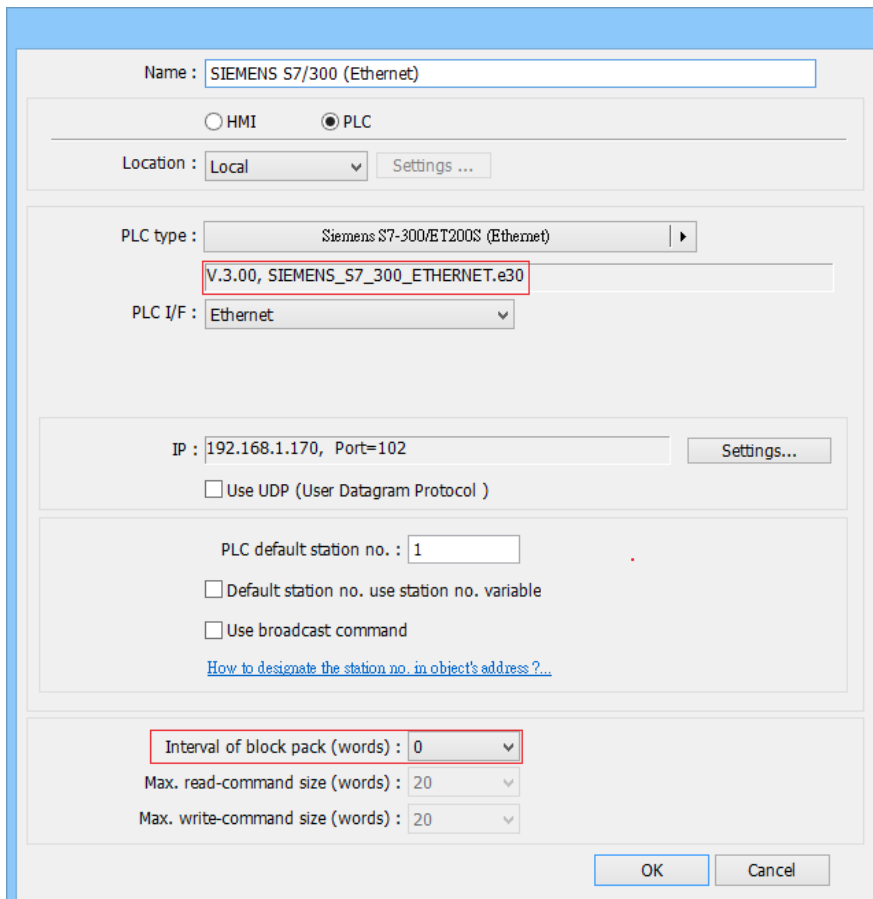
Supported Series: Siemens S7-300 Ethernet Series PLC, Ethernet module CP-343-1, CPU315-2 PN/DP, CPU317-2 PN/DP, CPU319-3 PN/DP, and ET200S.

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.

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) |

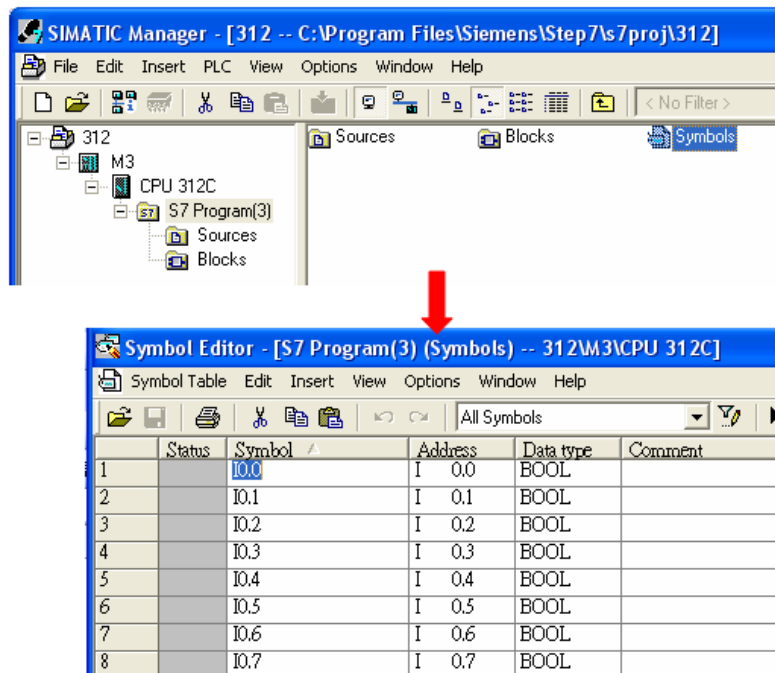
- Double word and floating point value must use DBDn device type.

How to Import Tag:

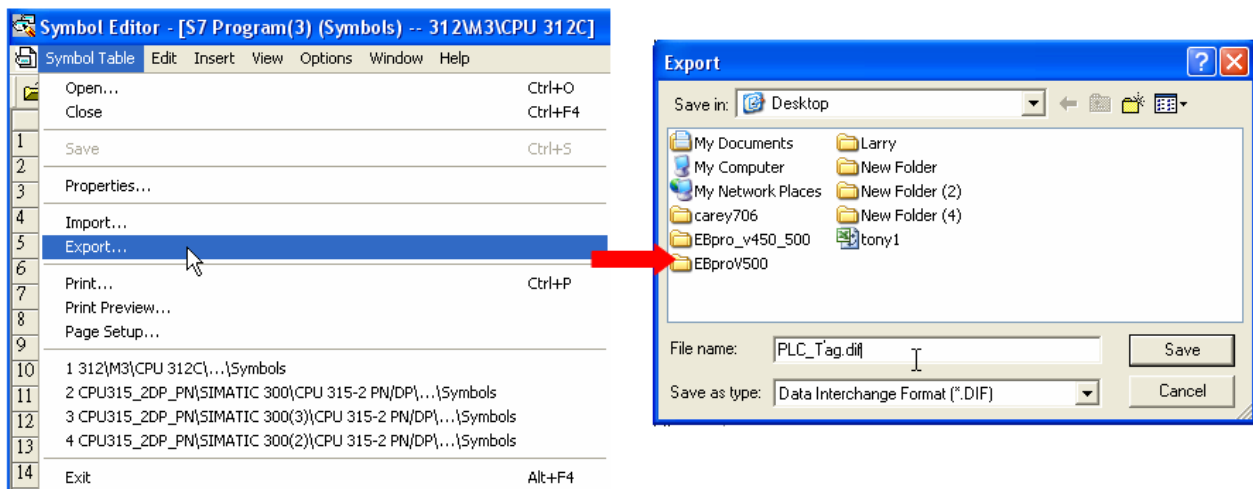
SIEMENS STEP 7 program allows building files of user-defined tag (*.dif file and *.AWL file), and import these files in EasyBuilder8000/EasyBuilderPro -> System Parameter Settings. The following describes how to build and import these two types of files.

1. Building *.dif File

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

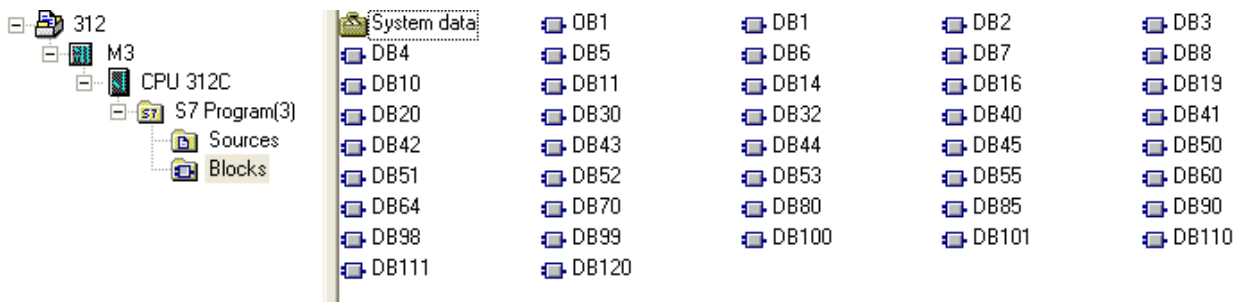


- b. Click **Export** to export the edited file and click **Save**.

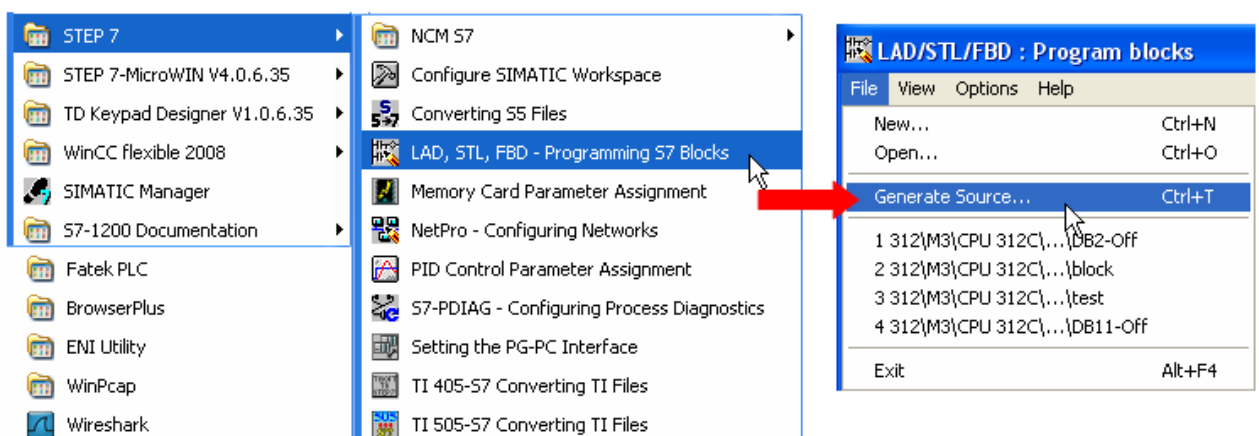


2. Building *.AWF File

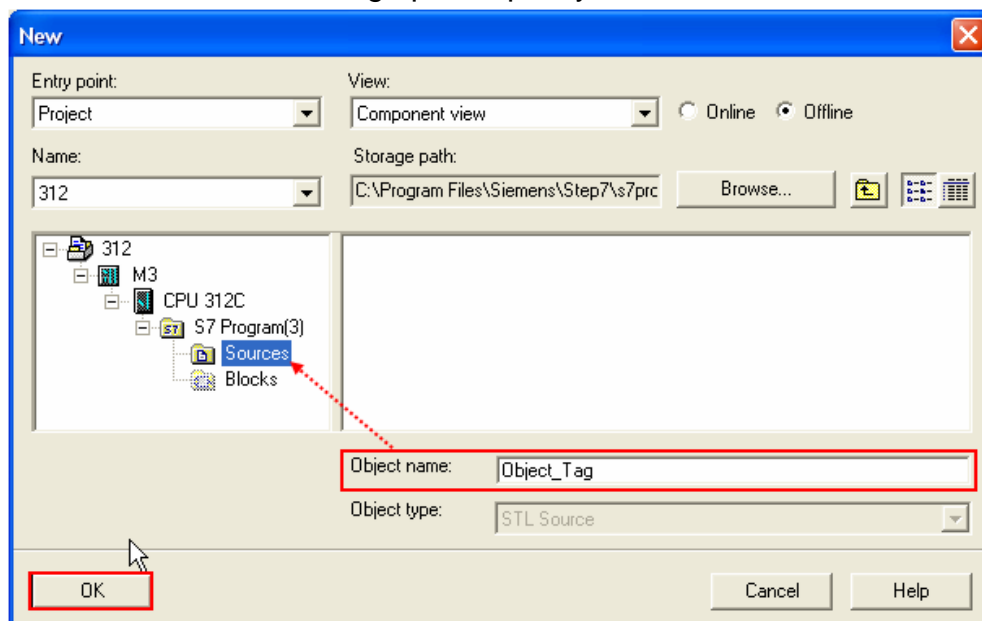
a、 In **Blocks** create items as shown below:



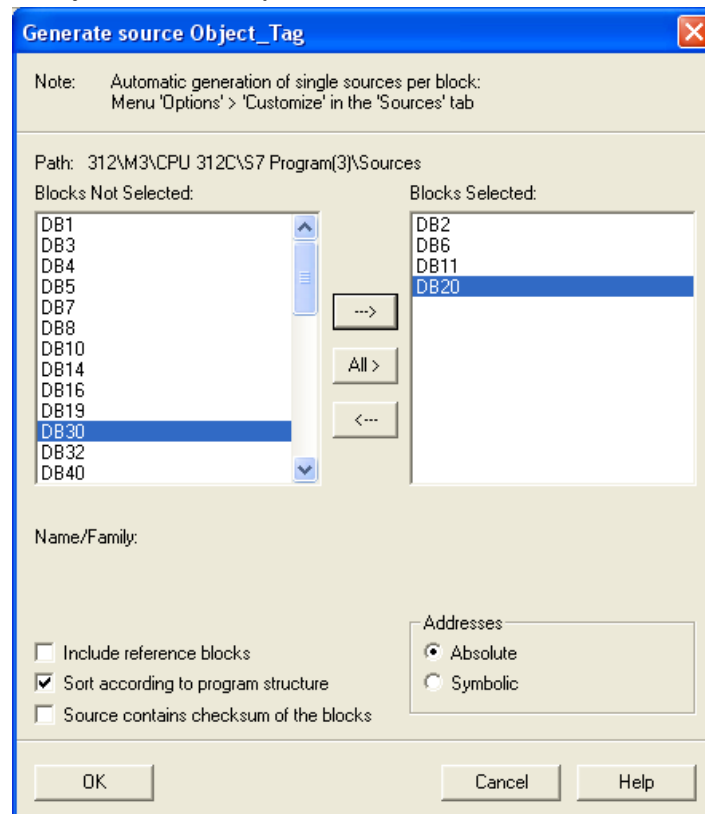
b、 Open **LAD/STL, FBD – Programming S7 Blocks**, click **File -> Generate Source**.



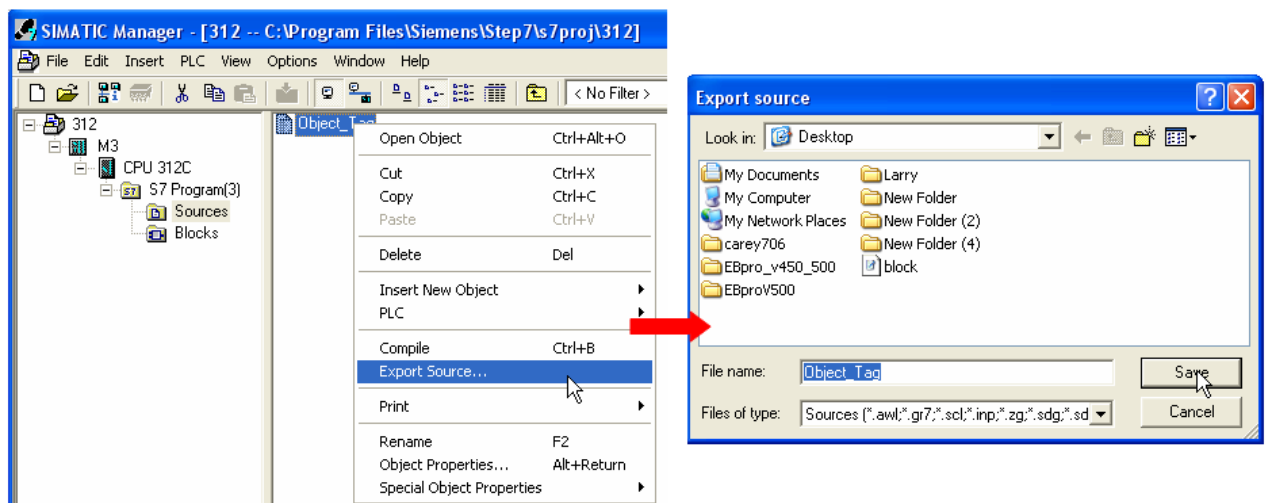
c、 Select **Sources** as storage path, specify the file name then click **OK**.



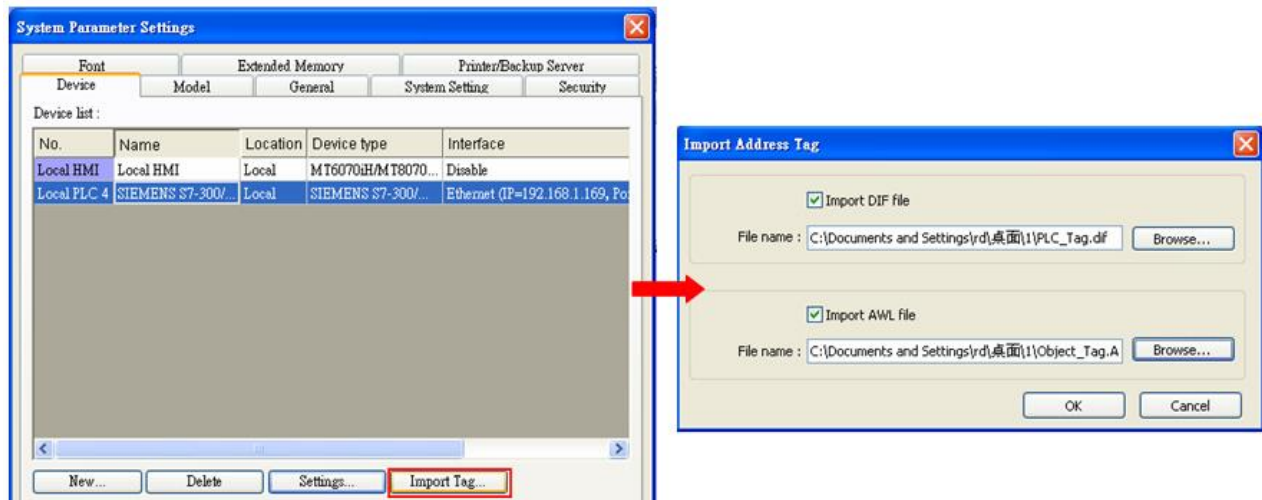
d、 Select the objects to be exported then click **OK**.



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:

