

SINAMICS S120 CU310 DP AC / AC single axis drive demo

Lab 06: S7 PLC programming using SFC 58 & SFC 59 to Read & Write SINAMICS parameters

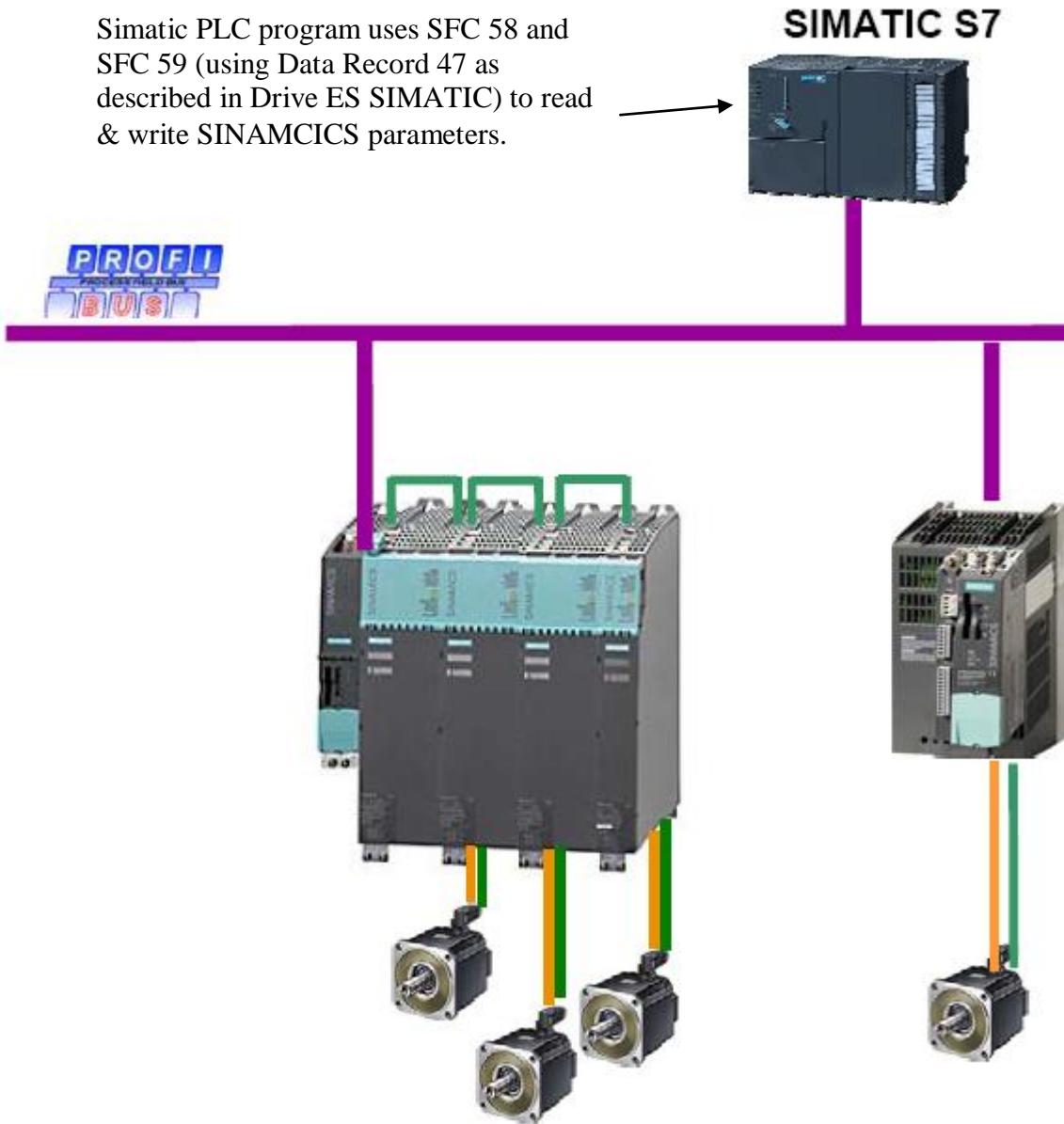
Exercise: Update of the Lab 03 application to show how to Read & Write SINAMICS parameters using SFC 58 & SFC 59

Simatic PLC program uses SFC 58 and SFC 59 (using Data Record 47 as described in Drive ES SIMATIC) to read & write SINAMICS parameters.

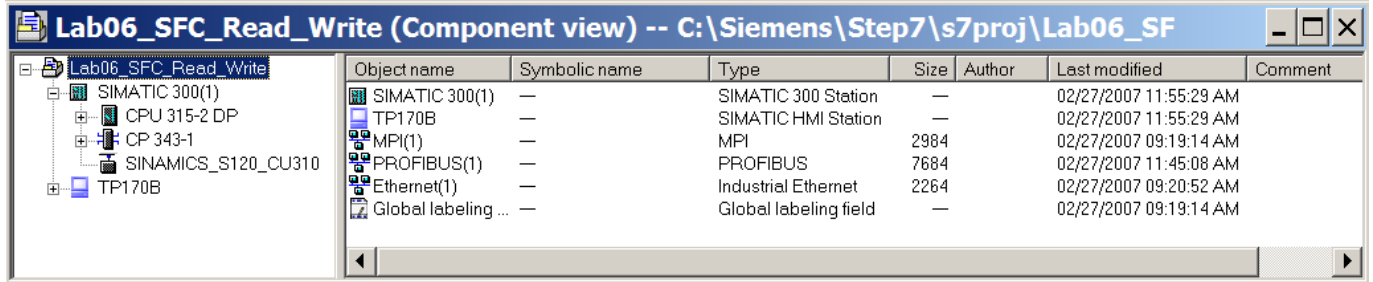
SIMATIC S7



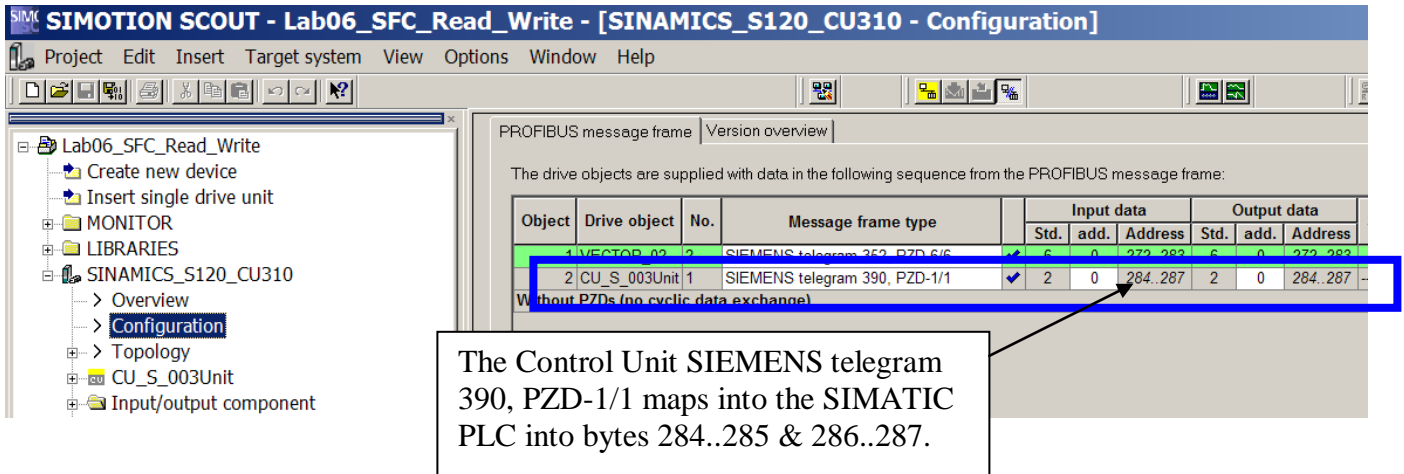
PROFIBUS



Task 1: We use **Lab 03** as a starting point for this lab. Open the working Lab03_DriveES_Speed application and select File Save As <Lab06_SFC_Read_Write>.

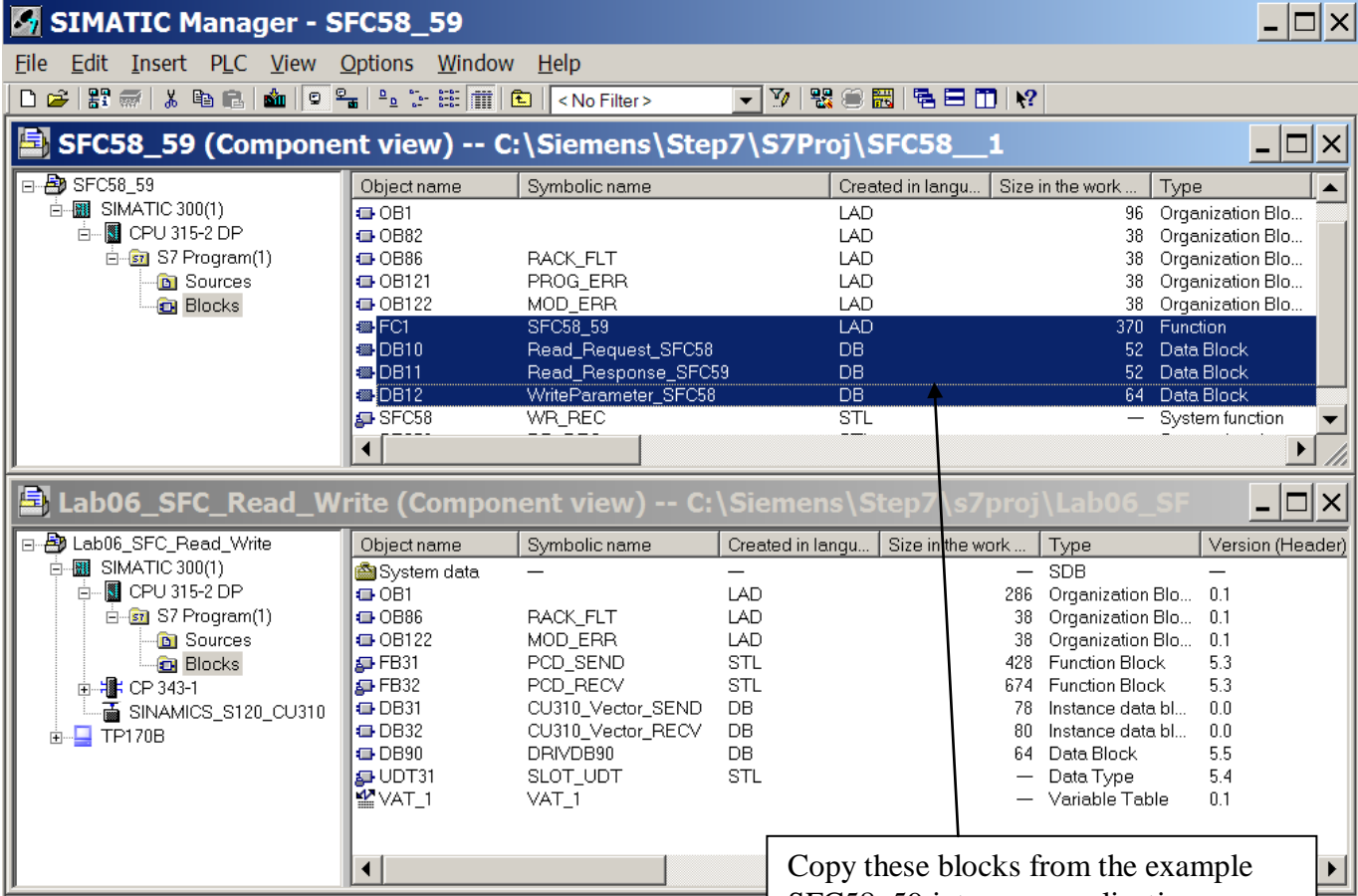


Task 2: Open Starter or Scout to review the PROFIBUS message frame details for CU310 connection to the SIMATIC PLC. This lab presents how to use Selector Switches on the CU310 demo as PROFIBUS inputs to the SIMATIC PLC.



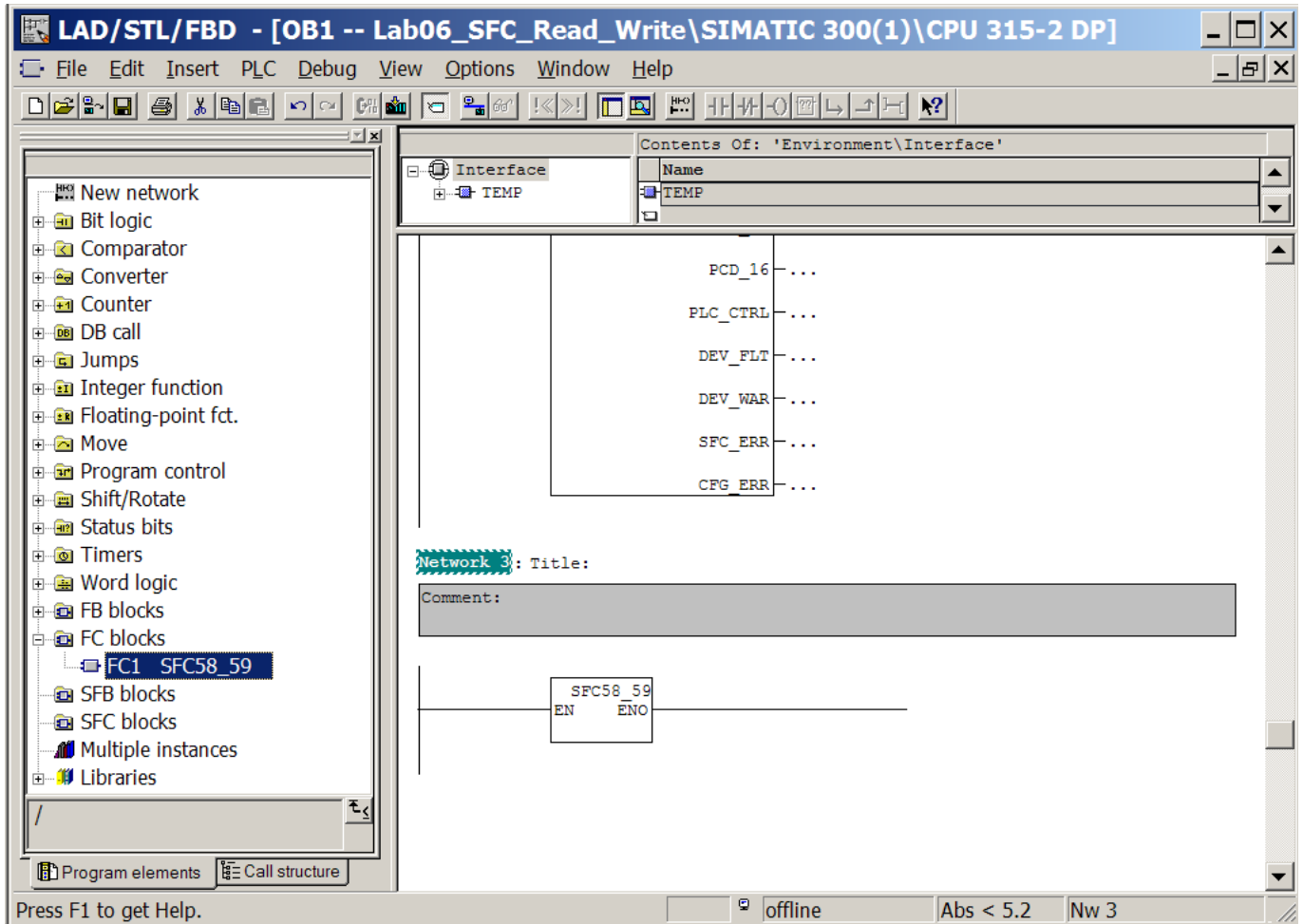
Task 3: There are no changes required of the SINAMICS configuration for Lab #6. Download the SINAMICS configuration as it was last saved in Lab #3 into the demo (configured for Vector with the standard induction motor)

Task 3: Open the SFC58_59 example application. Expand the folders to look at the Blocks folder of the CPU 315-2 DP. Copy FC1, DB10, DB11, and DB12 into your Lab06_SFC_Read_Write.



Press F1 to get Help.

Task 4: Open OB1 and insert a new network. Drag the FC1 <SFC58_59> onto the new network. Save the updated OB1.



Task 5: Open OB1 and insert a new network. Drag the FC1 <SFC58_59> onto the new network.