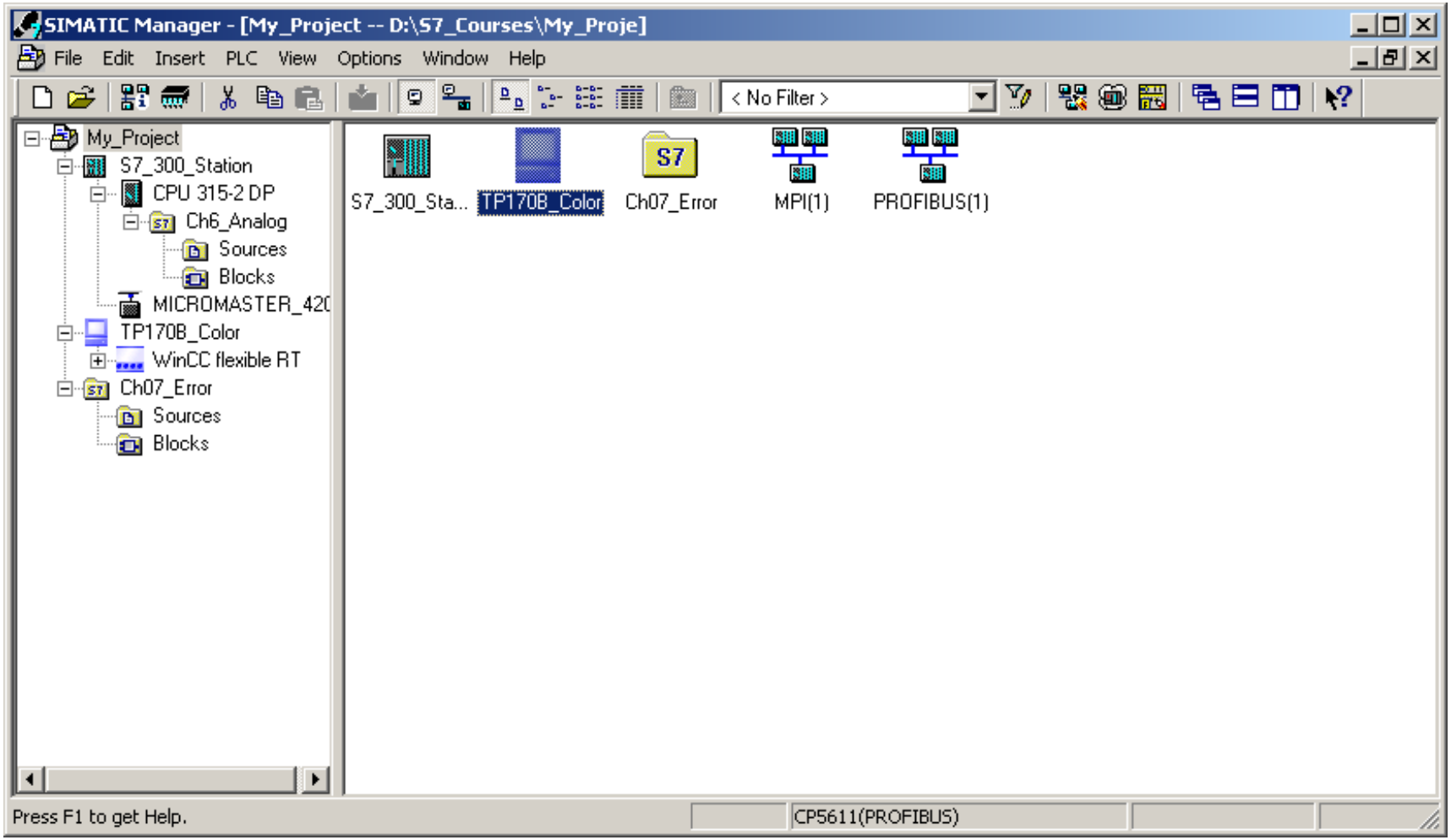
The SIMATIC Manager



Objectives

Upon completion of the chapter the participant will ...

... understand the project structure in the SIMATIC Manager

… understand the function "accessible nodes"

... be familiar with the offline / online view in the SIMATIC Manager

... be familiar with the STEP7 Standard Libraries

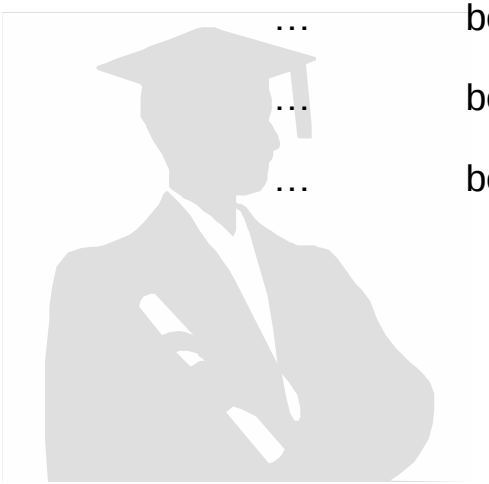
... be familiar with the STEP7 help system

... be able to create and manage a project with the SIMATIC Manager

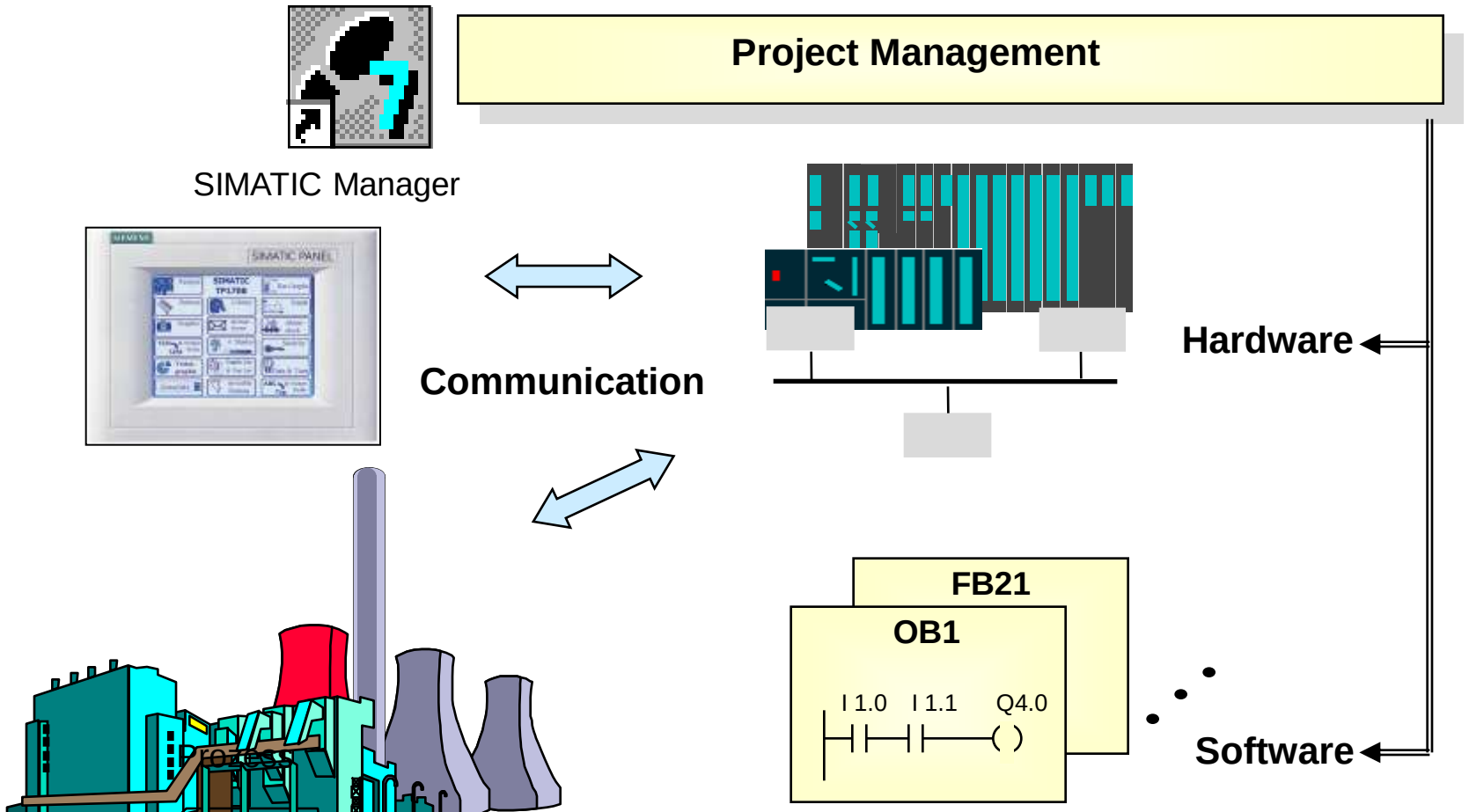
… be able to set the PG´s interface

… be able to erase an MMC

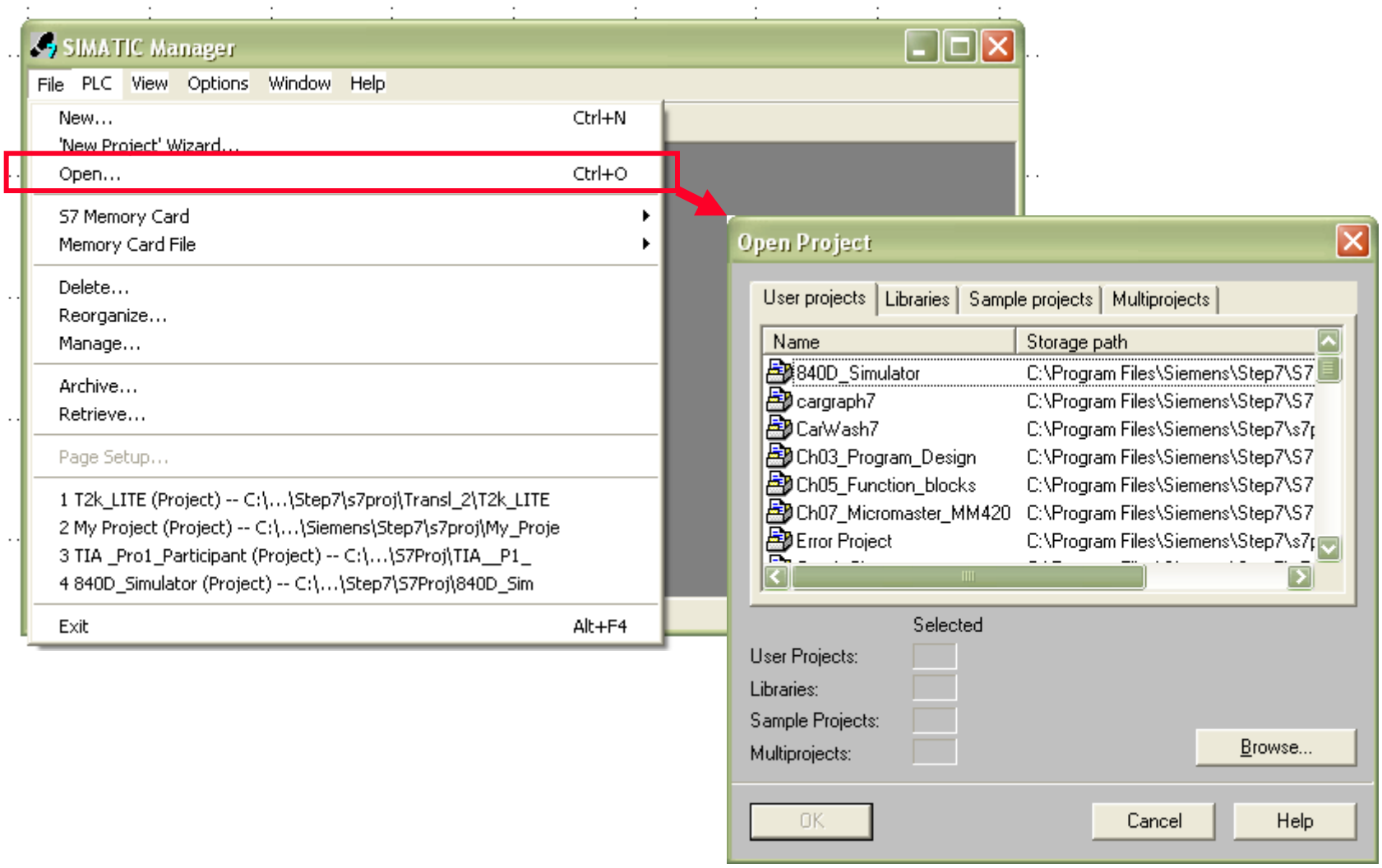
… be able to perform an S7 CPU memory reset



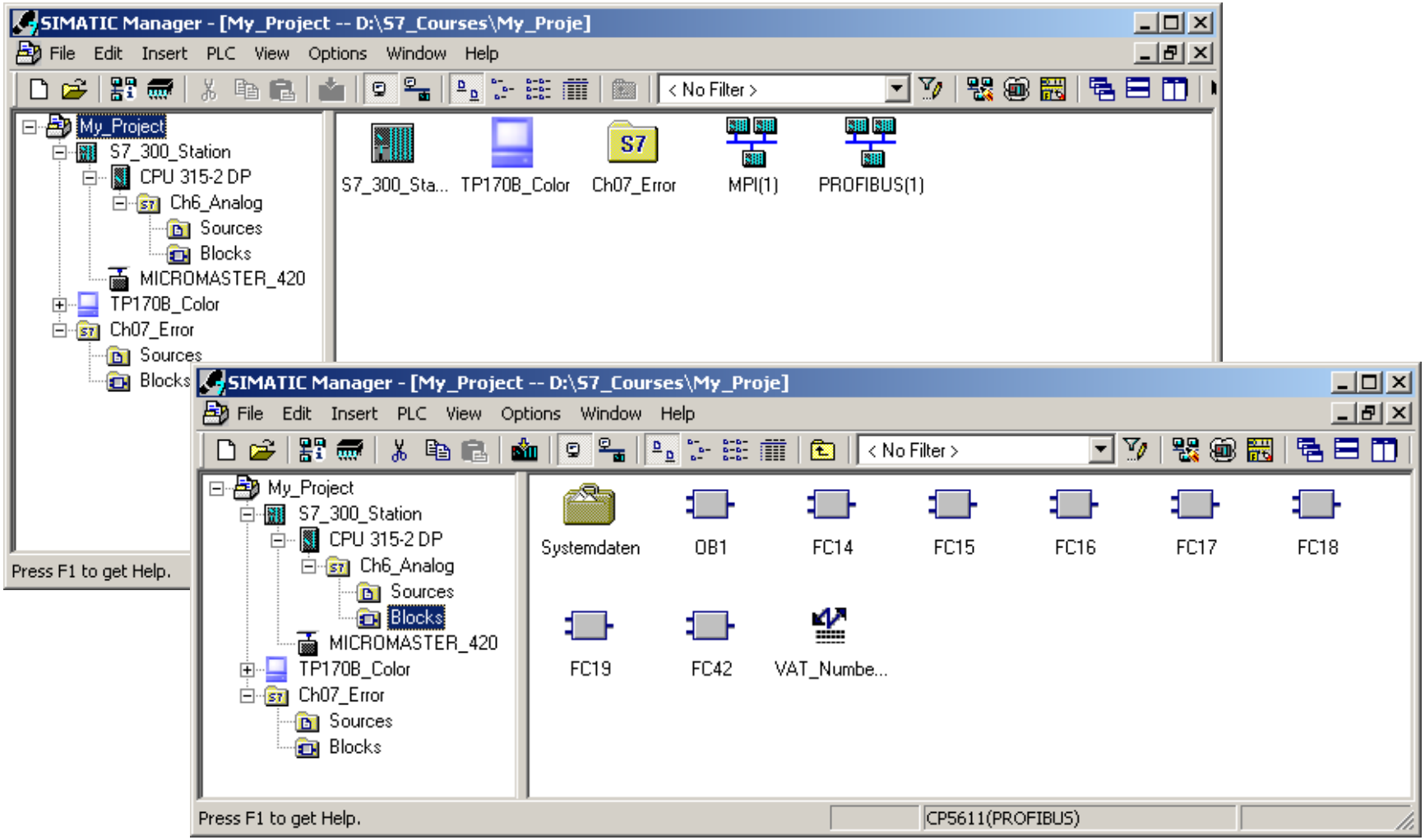
From Process to Project



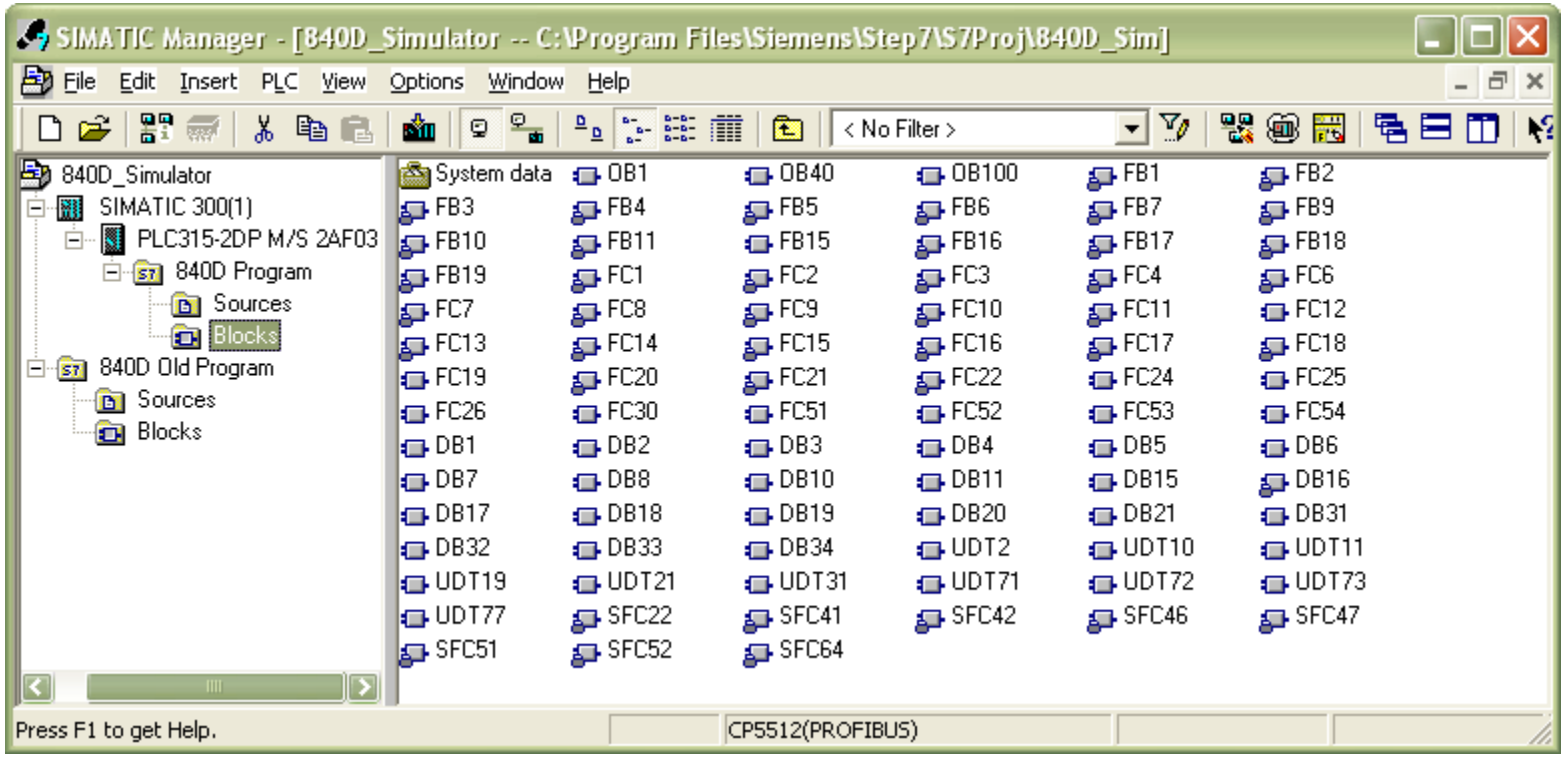
Opening a Project, Deleting a Project, and Project Save As



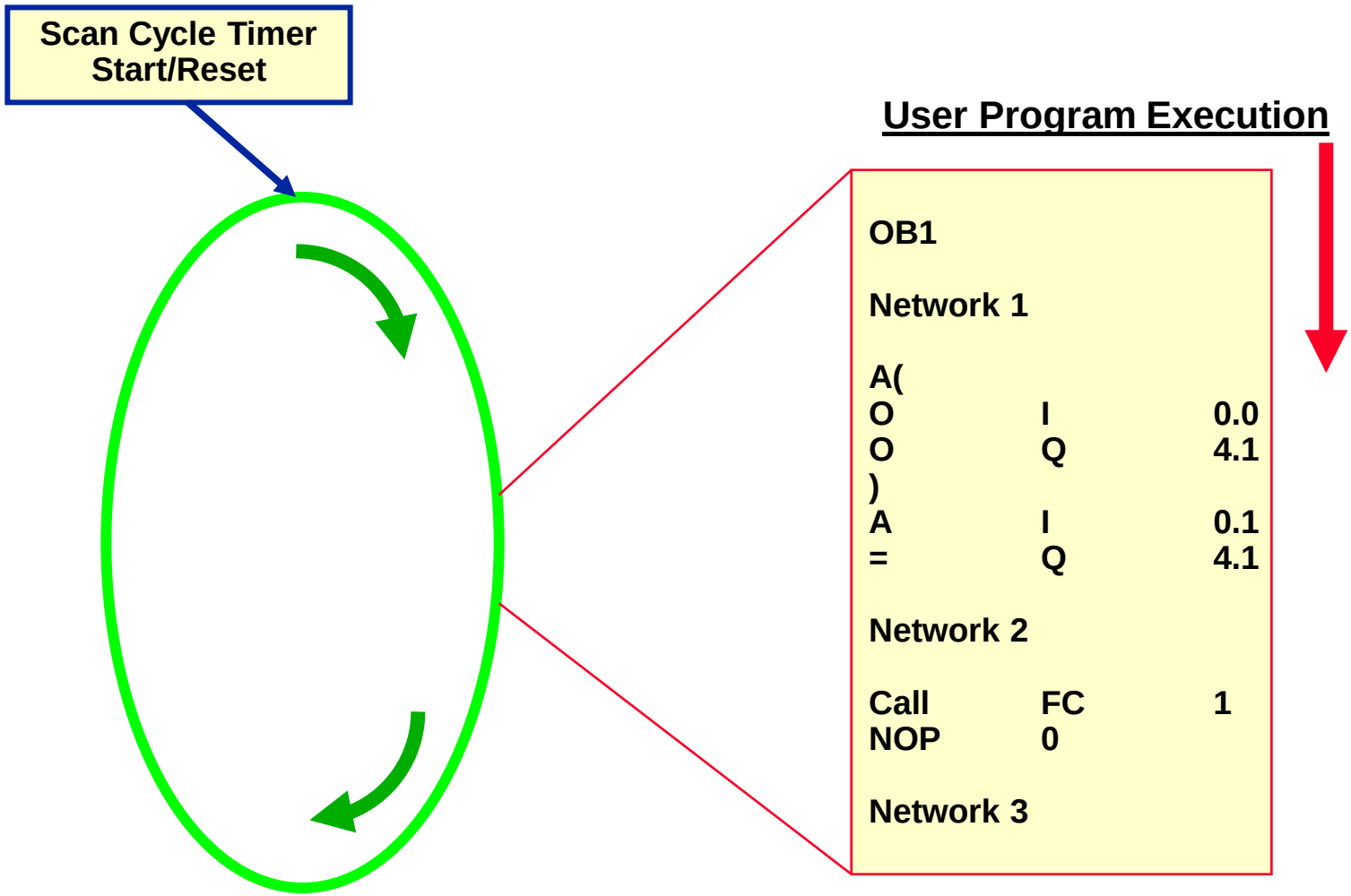
STEP 7 Project Structure



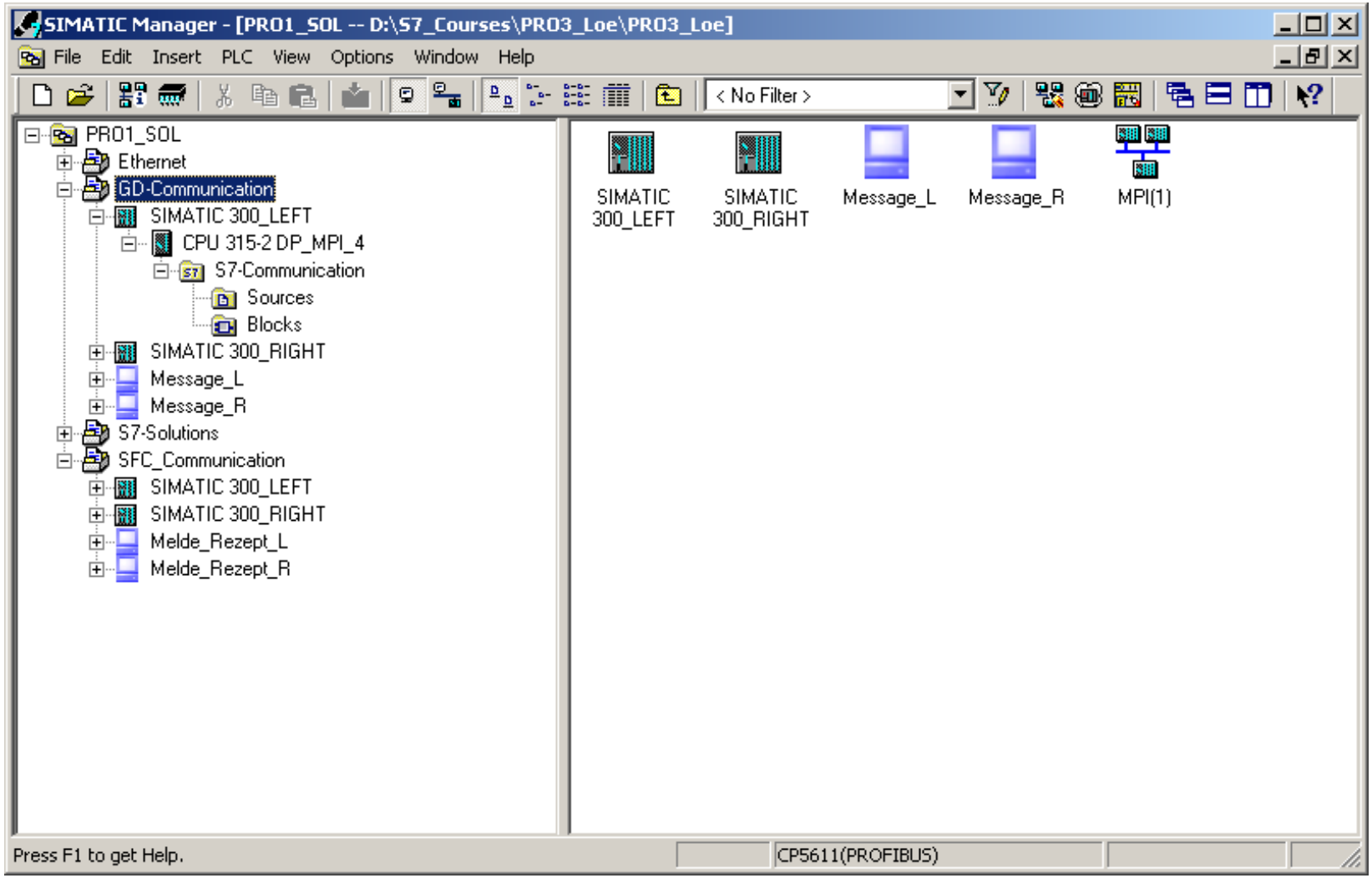
S7 Program Blocks



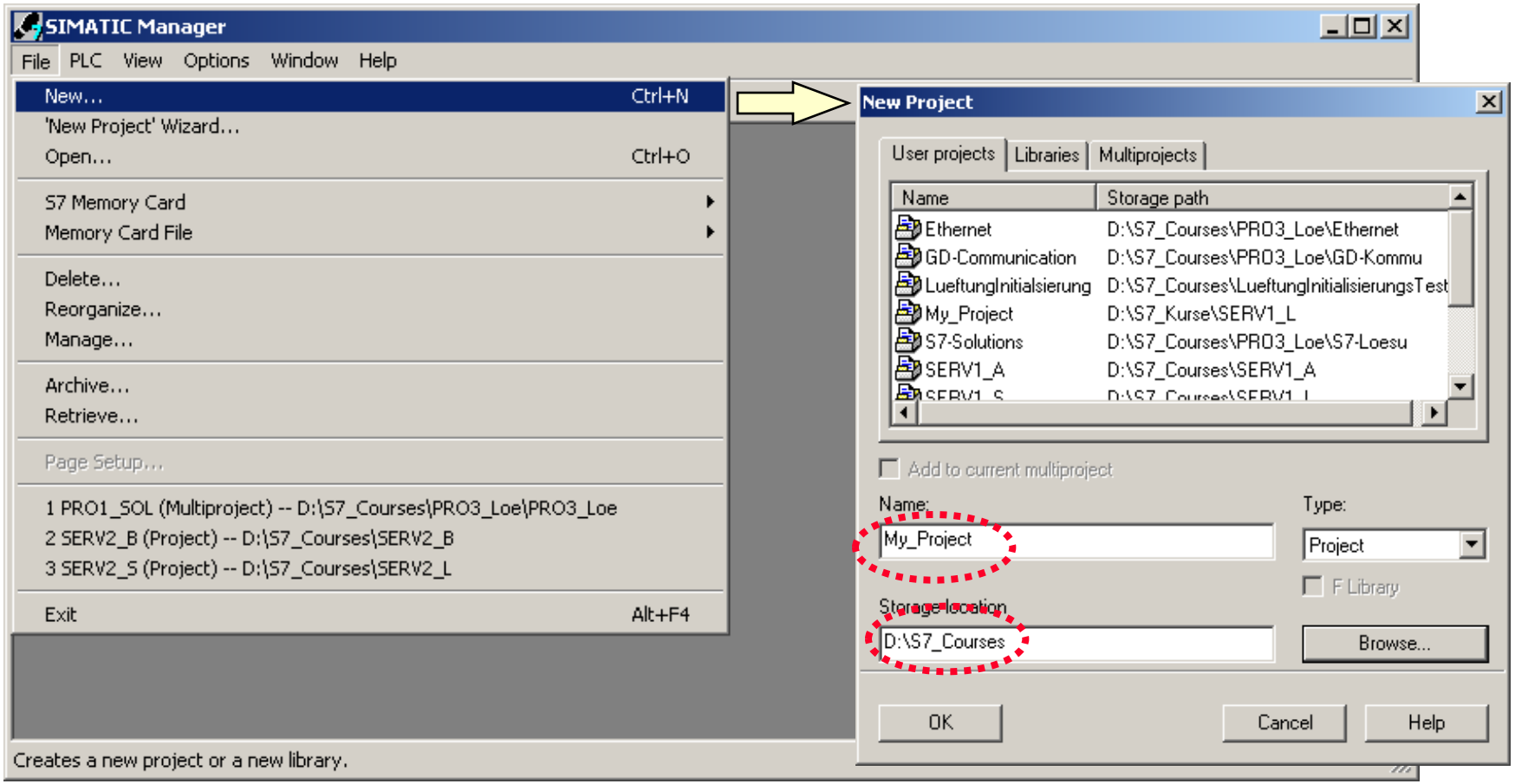
Cyclic Program Processing



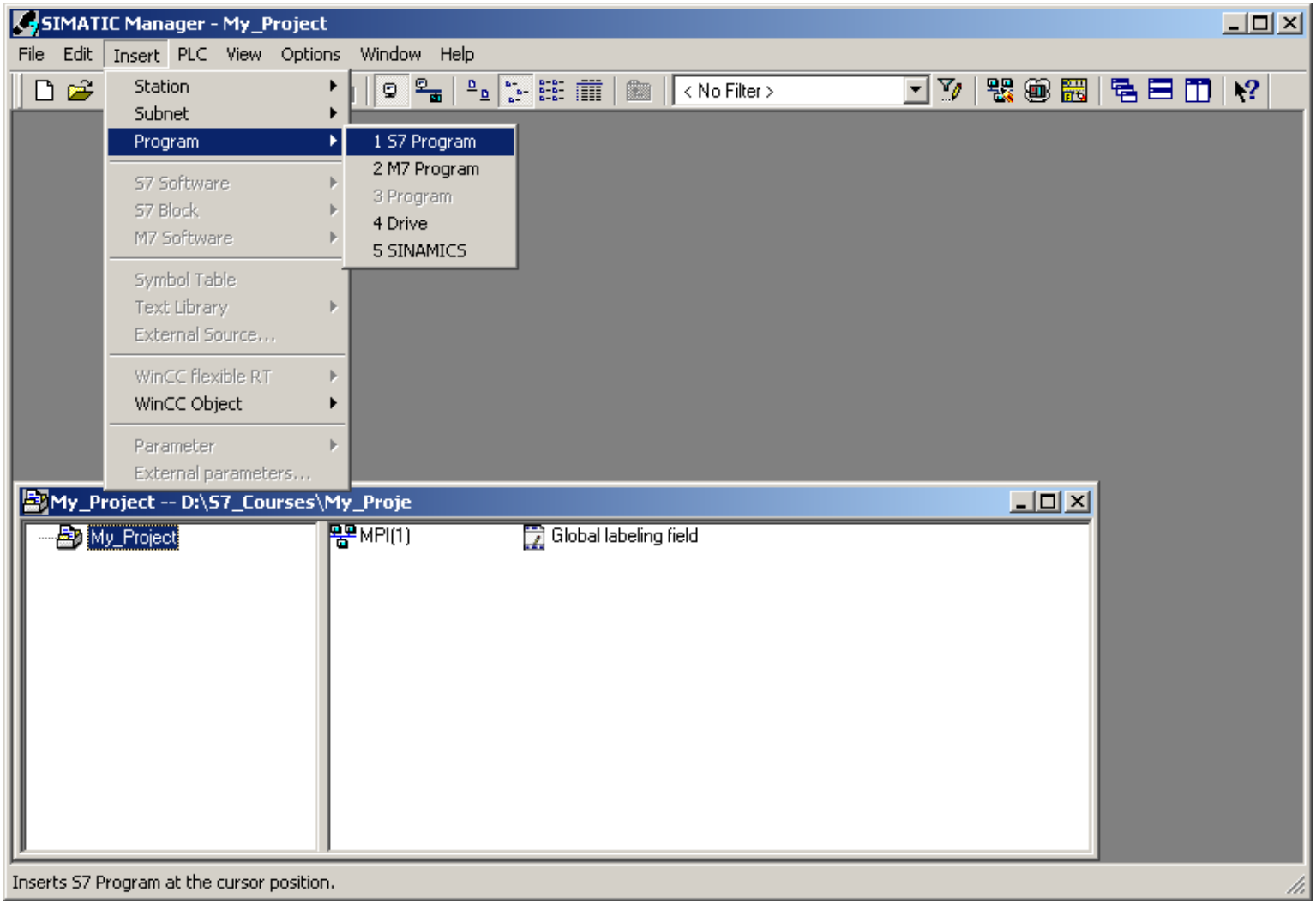
Interesting Facts about Multiprojects



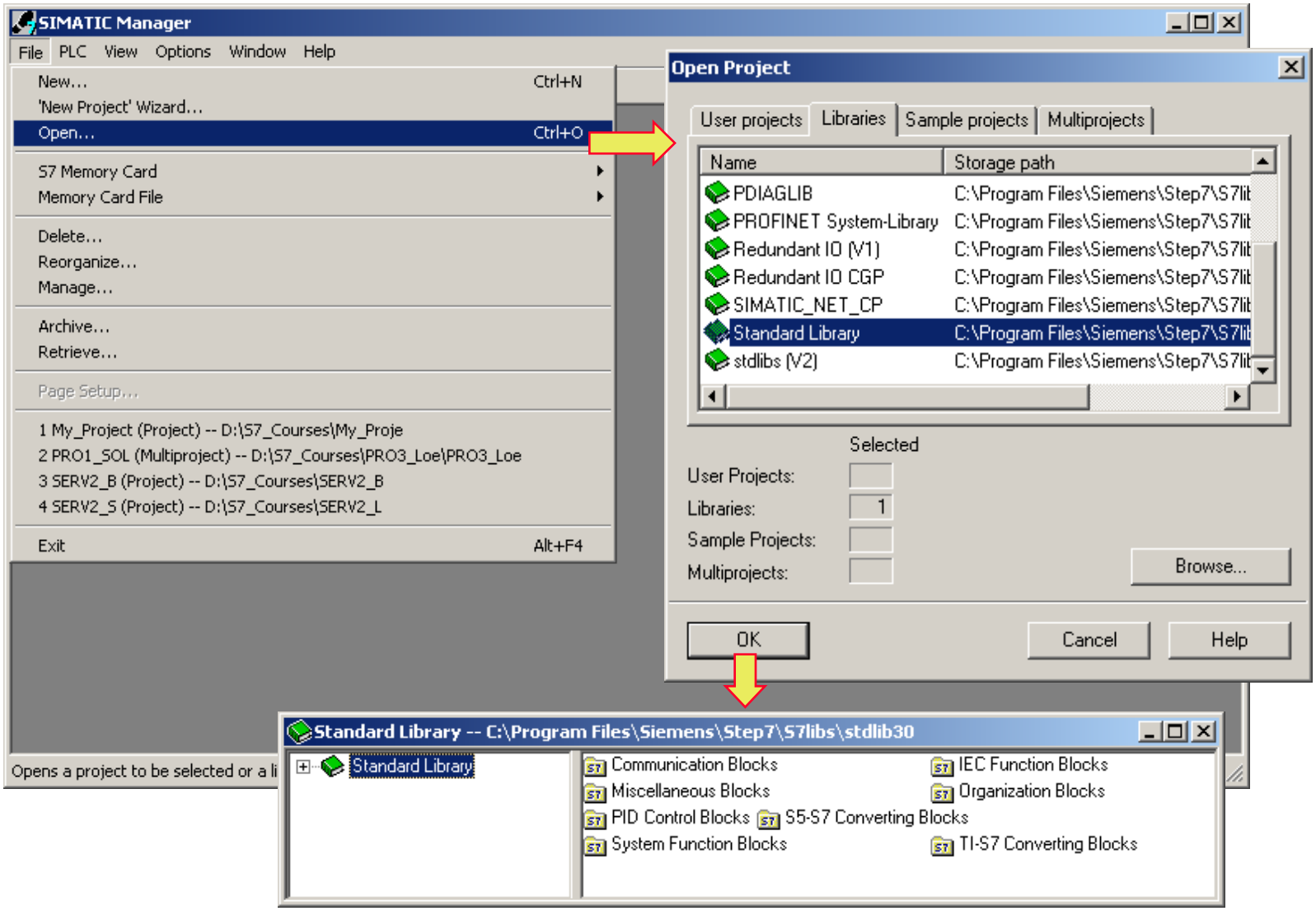
Creating an S7 Project



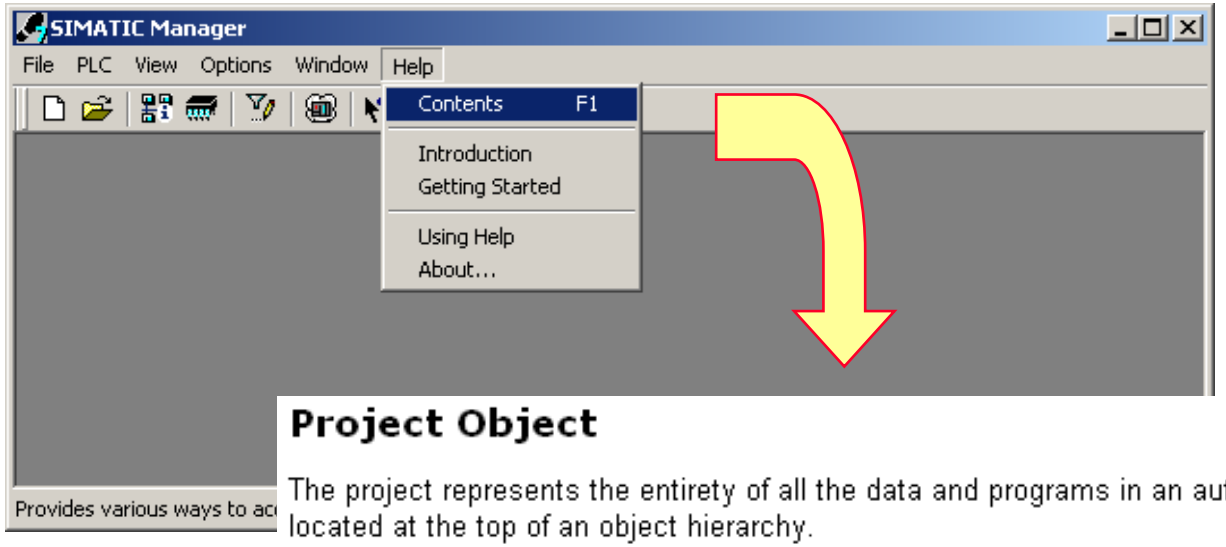
Inserting an S7 Program



Standard Library



STEP 7 Help System

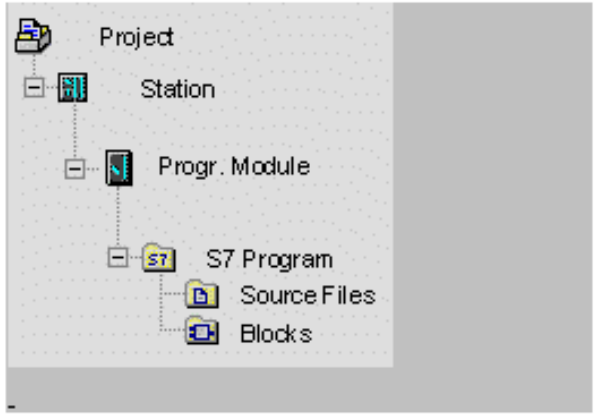


Press Hot-key F1

Project Object

The project represents the entirety of all the data and programs in an automation solution, and is located at the top of an object hierarchy.

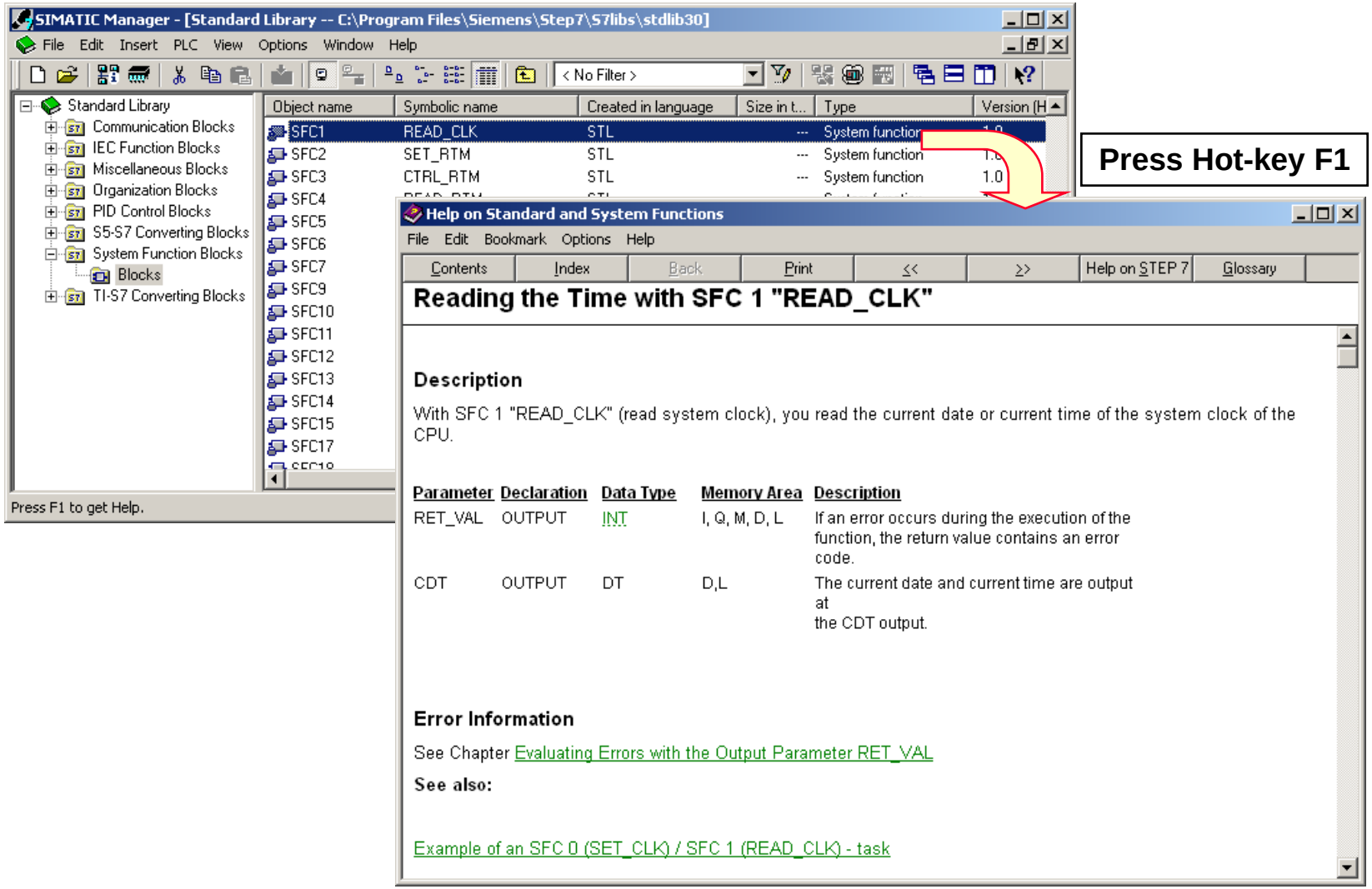
Position in the Project View



Project Object
Station Object
Programmable Module Object
S7/M7 Program Object
Source File Folder Object
Block Folder Object

Example

Context Sensitive Help in STEP 7



Setting the PG/PC Interface

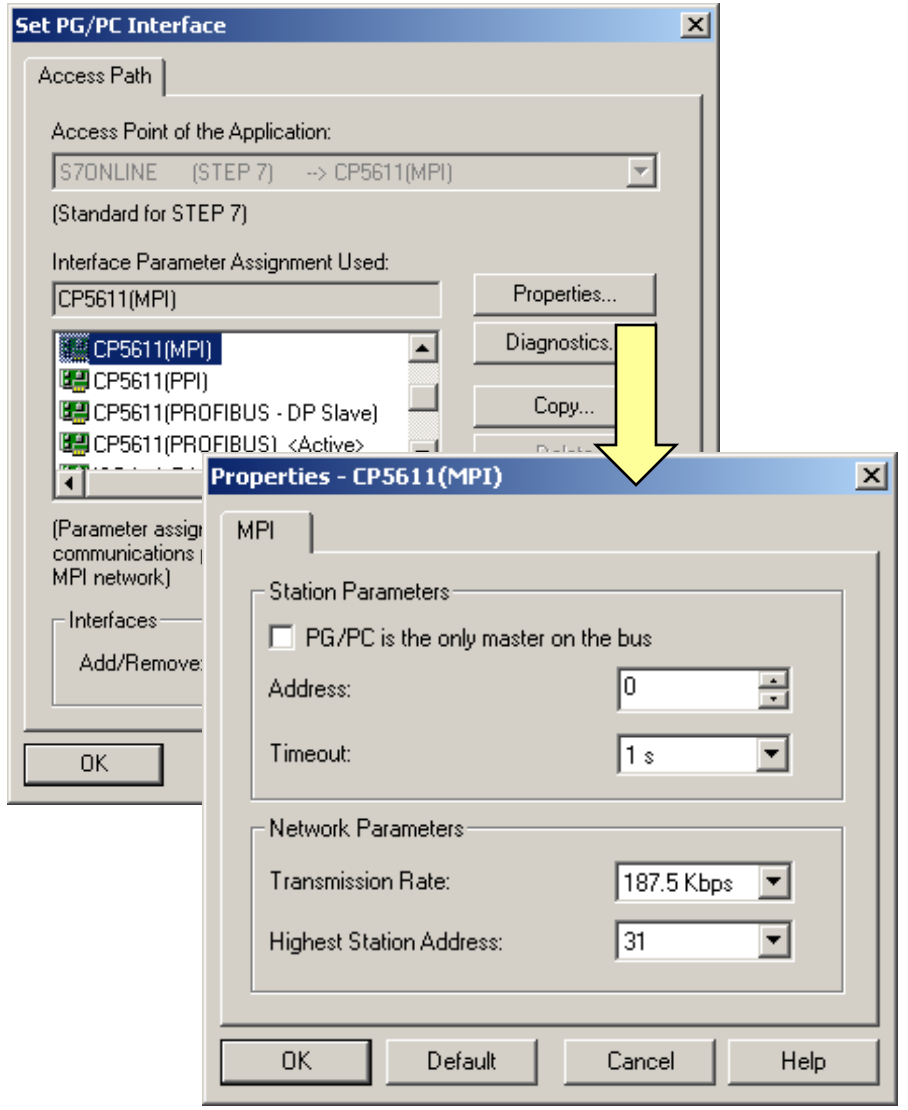
STEP 7

Access Point of the Application: S7ONLINE

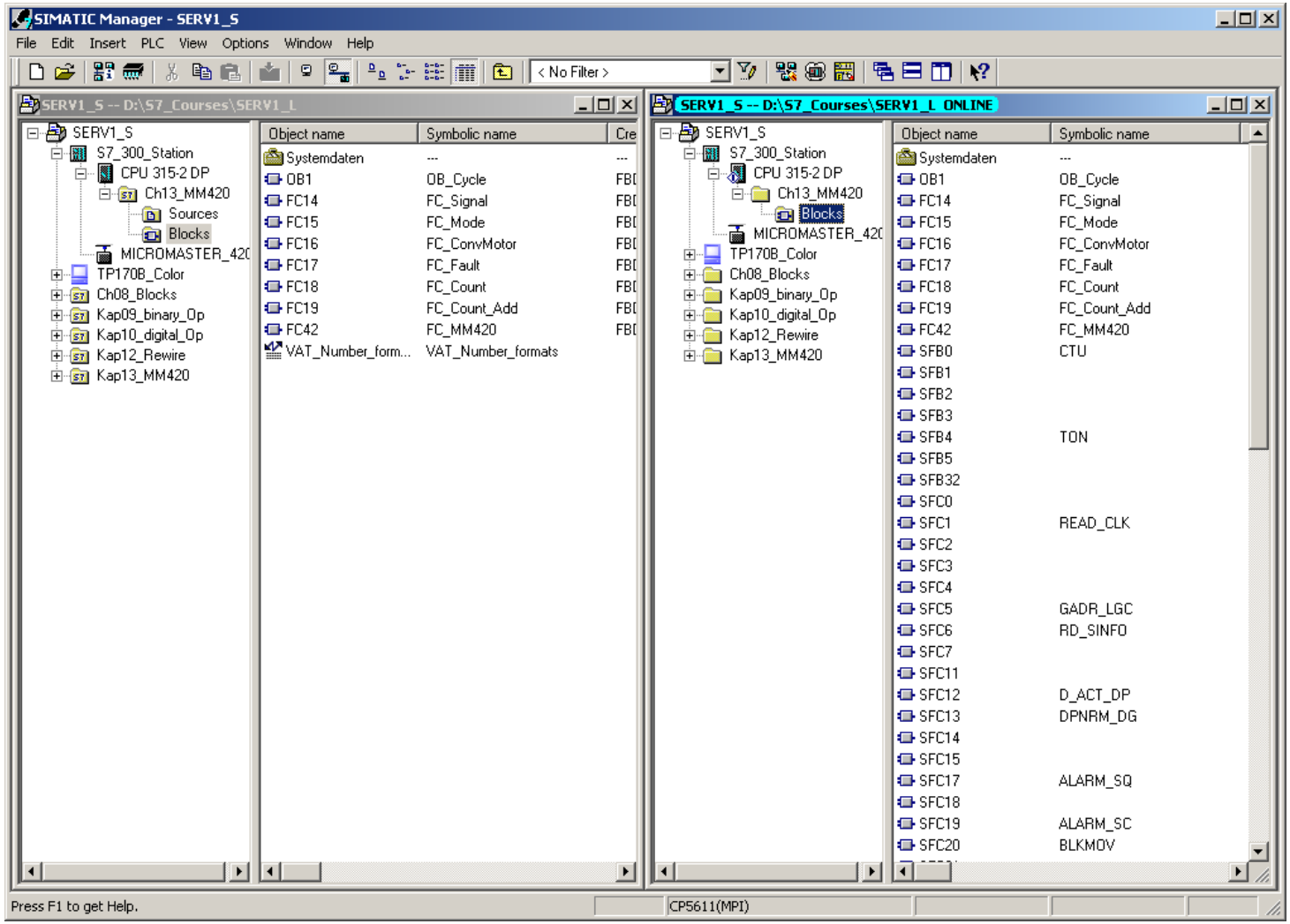
CP5611

Interface Parameter Assignment Used: CP5611 (MPI)

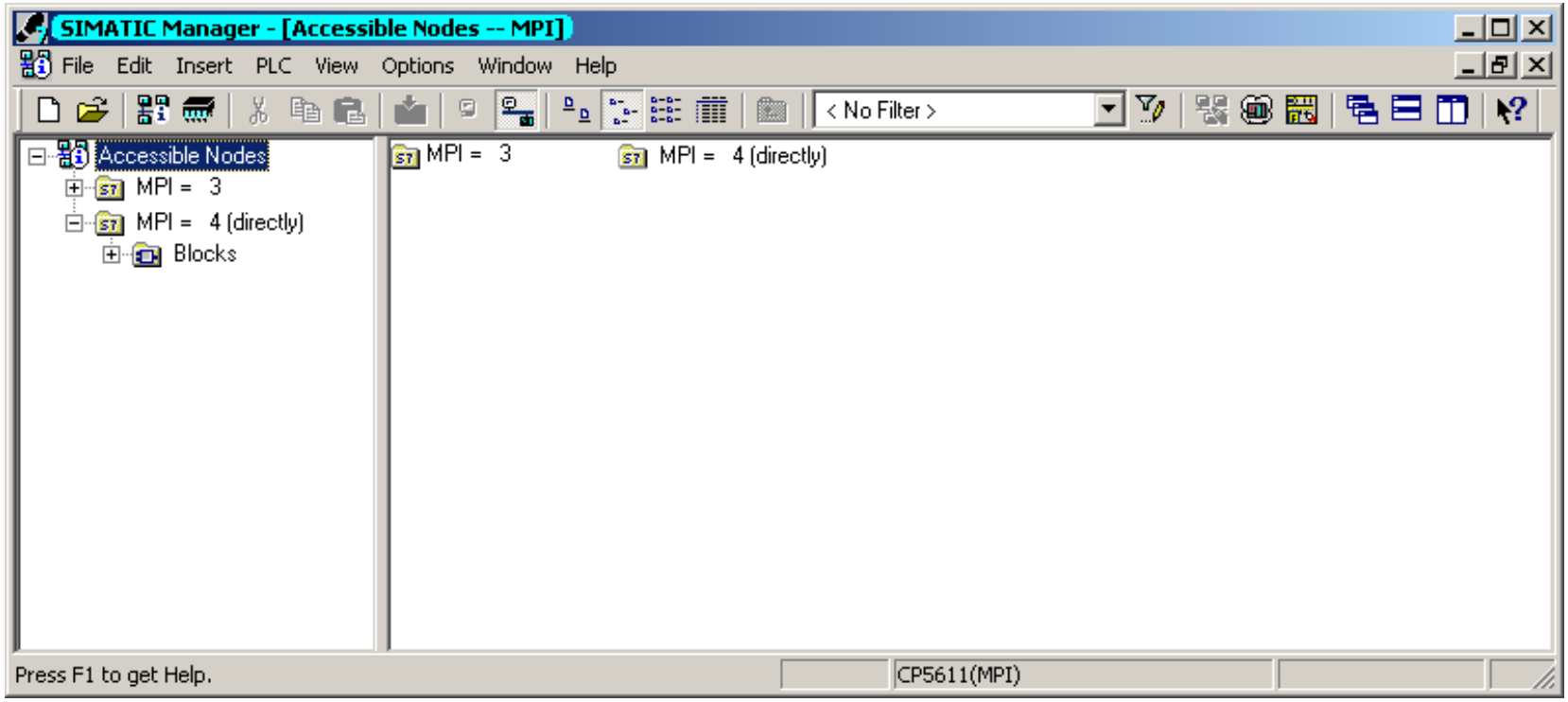
CPU



Offline / Online View in the SIMATIC Manager



Online Connection using "Accessible Nodes"



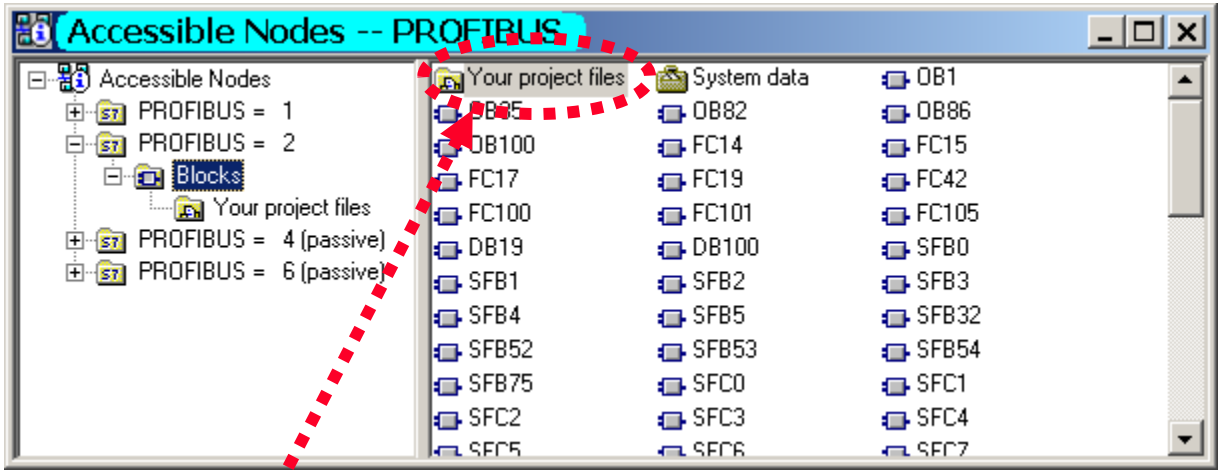
Erasing Data Stored on the MMC

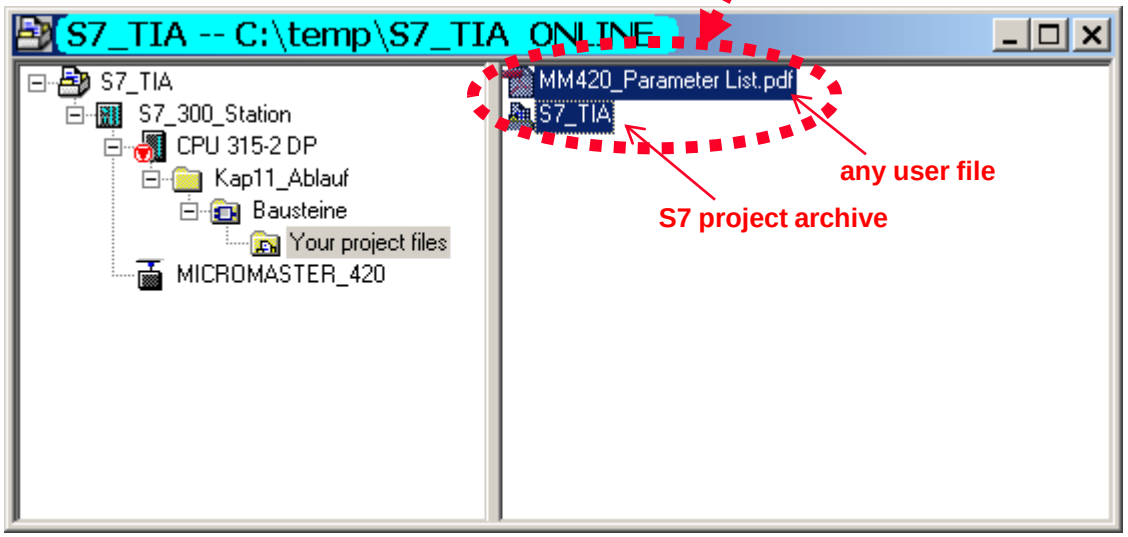
Accessible Nodes:

Icon

or

Menu option "PLC → display accessible nodes"





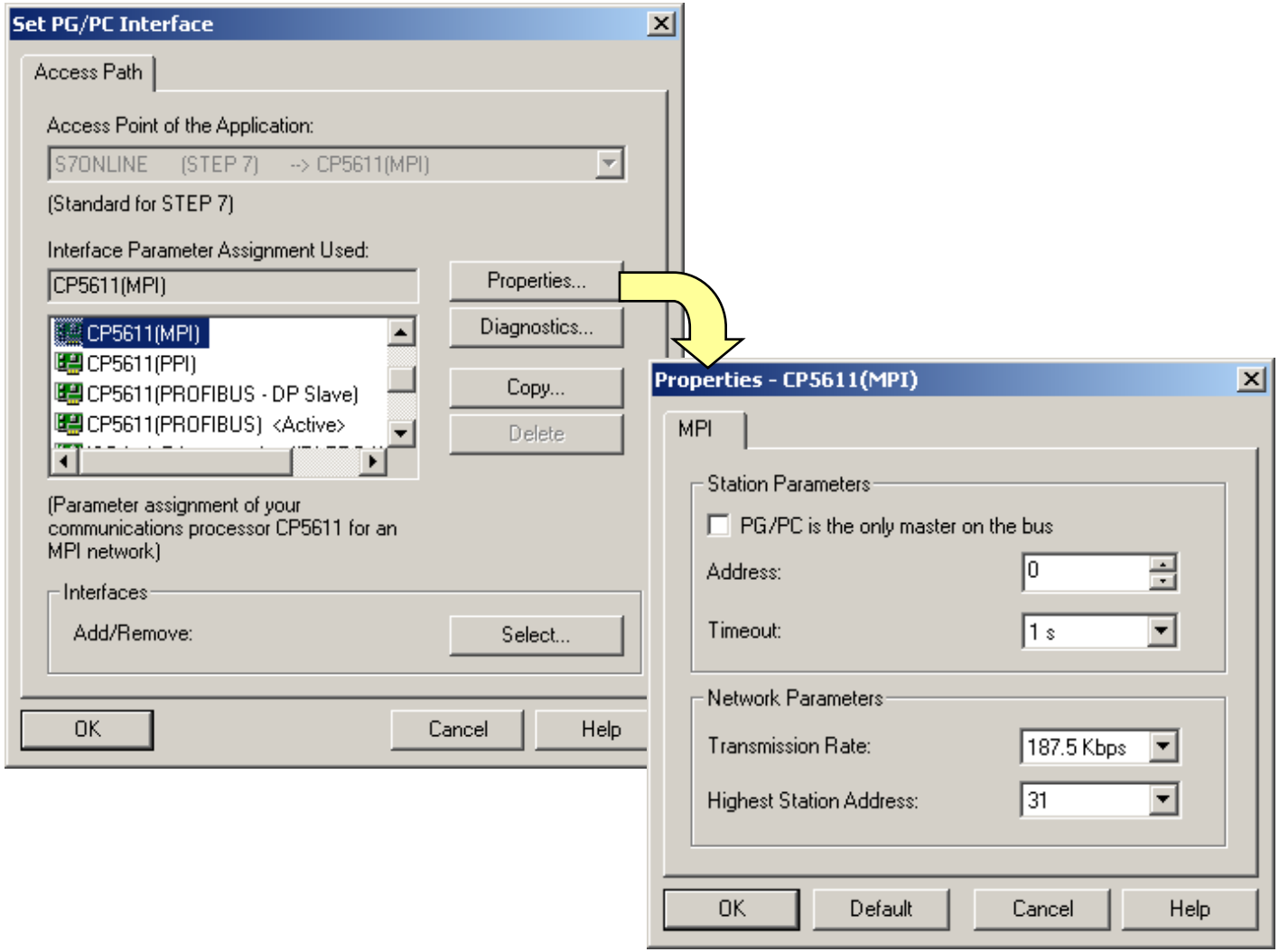
Project – Online – View:

Icon

or

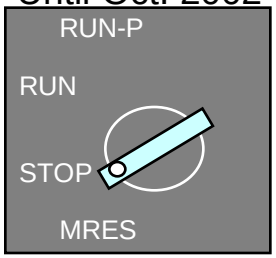
Menu option "View → online"

Exercise 1: Setting the PG Interface to MPI

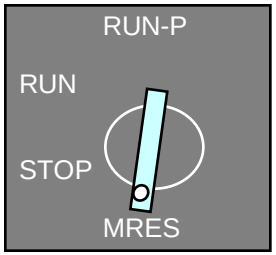


Exercise 2: Performing a CPU Memory Reset and a Warm Restart

Until Oct. 2002

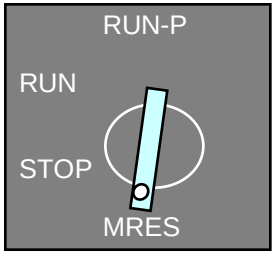


1. Set the mode selector switch to STOP

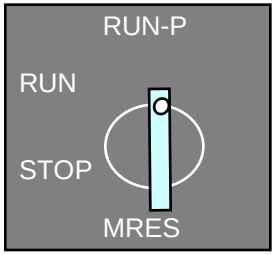


2. Hold (Press) the mode selector switch in the MRES position until the STOP LED has flashed twice slowly. Release the mode selector switch so that it returns to the STOP position.

within 1 sec

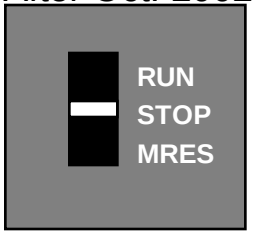


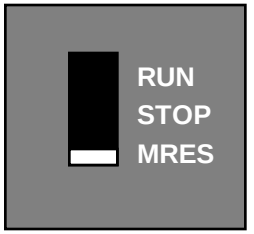
3. Turn (press) the mode selector switch to the MRES posi--tion once more until the STOP LED begins to flash quickly. Release the mode selector switch so that it returns to the STOP position.

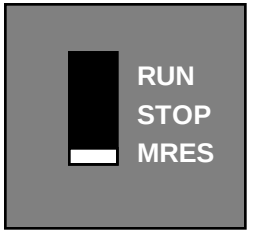


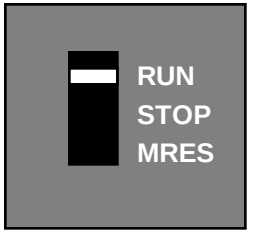
4. Set the mode selector switch to the RUN-P (RUN) position. (A warm restart is carried out in the transition from STOP to RUN/RUN-P)

After Oct. 2002

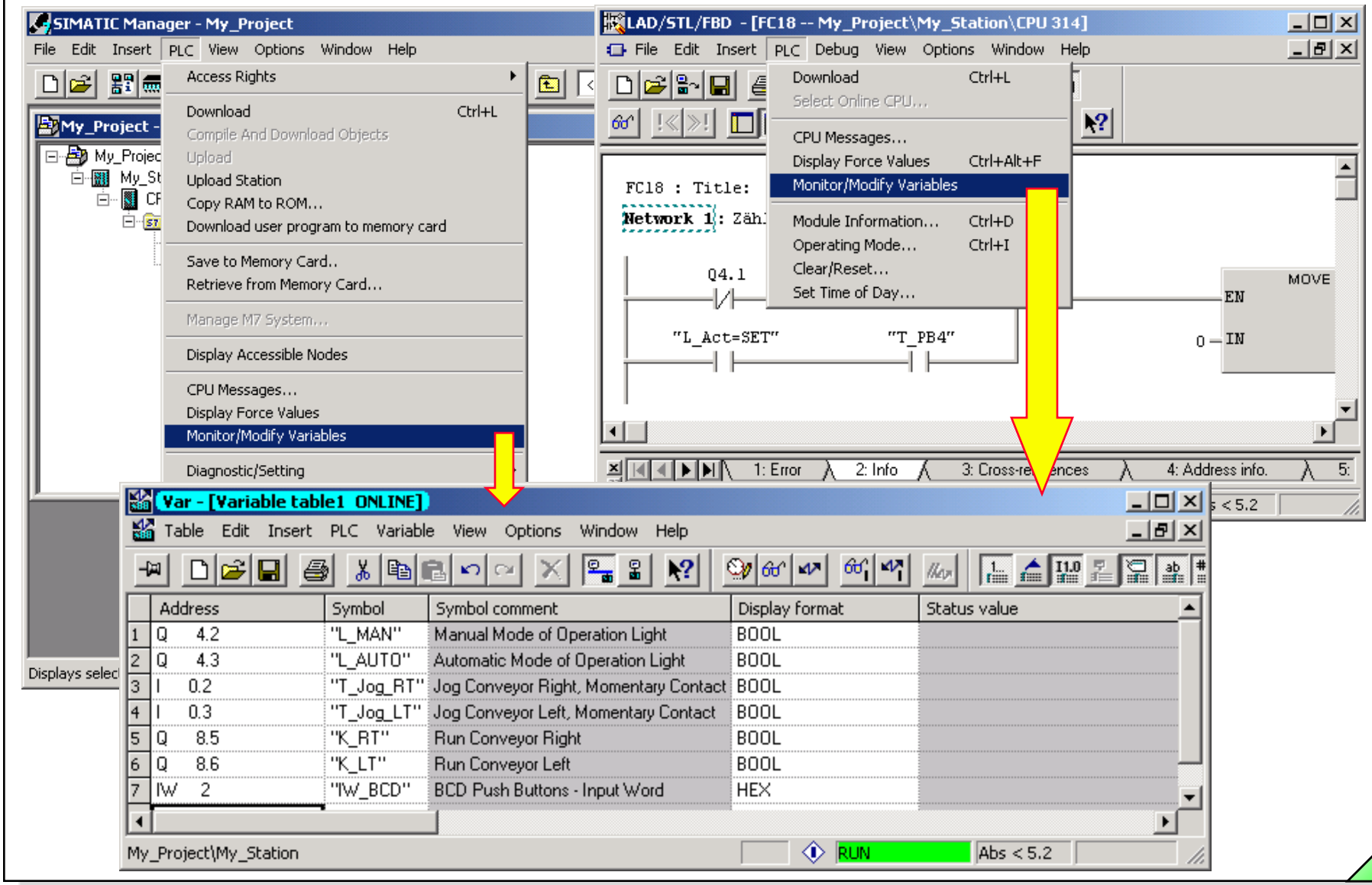




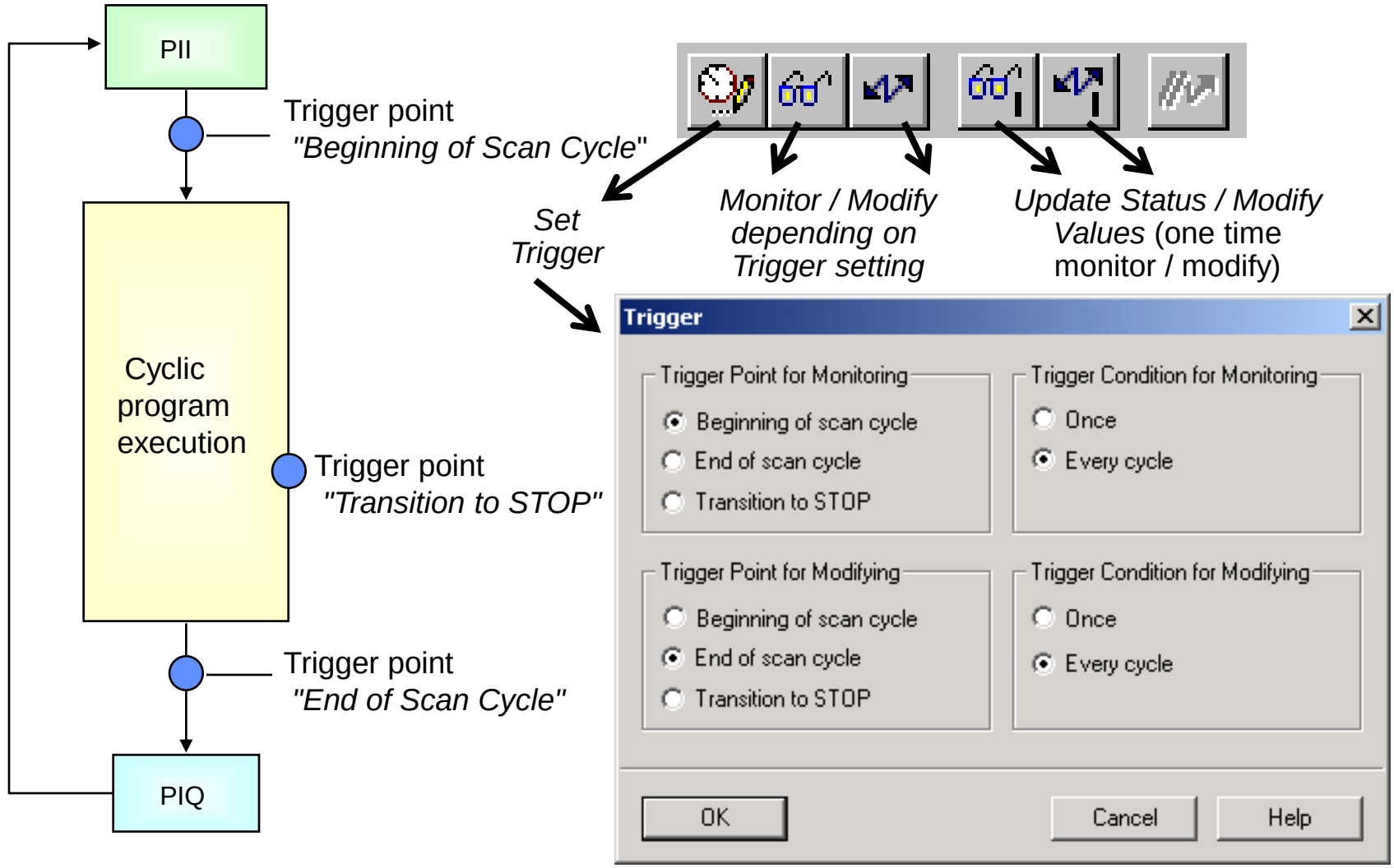




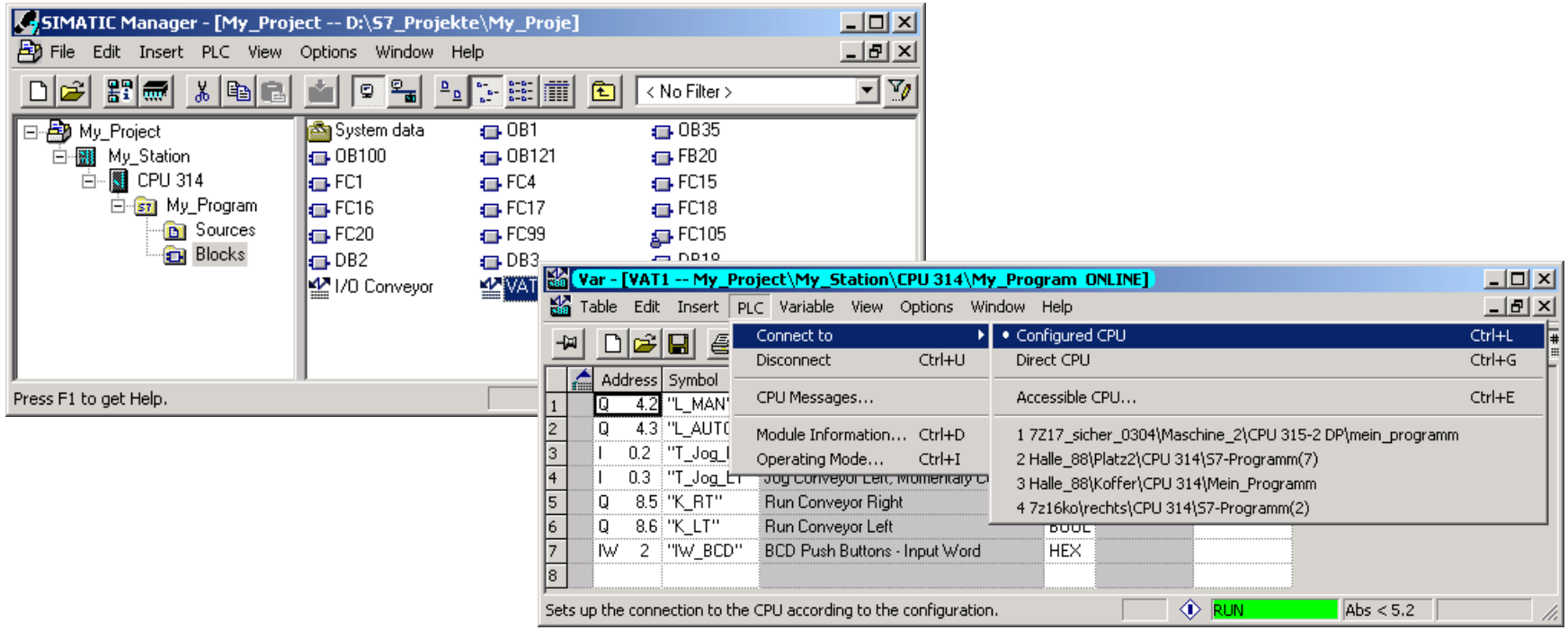
Calling the "Monitor/Modify Variables" Tool

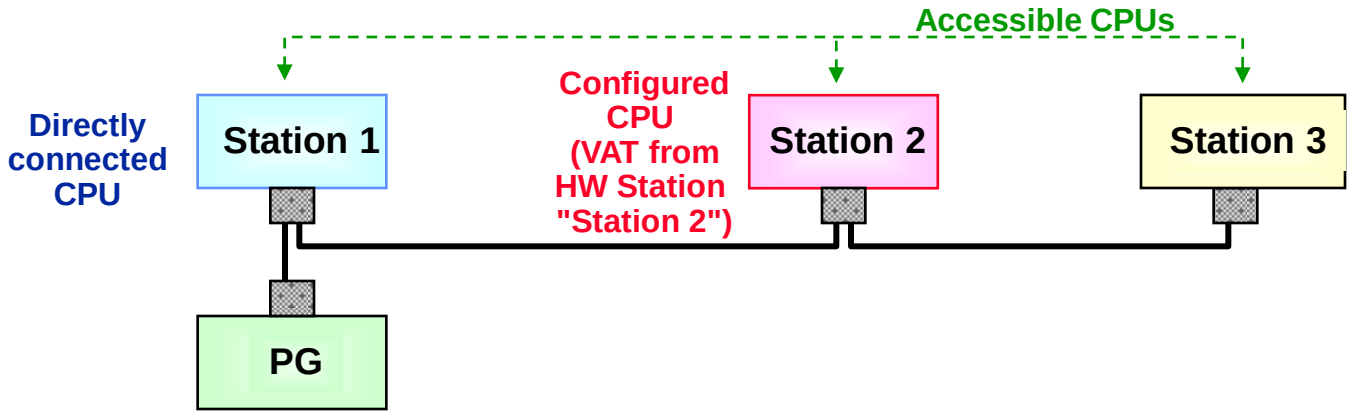


Establishing Trigger Points for "Monitor/Modify Variable"

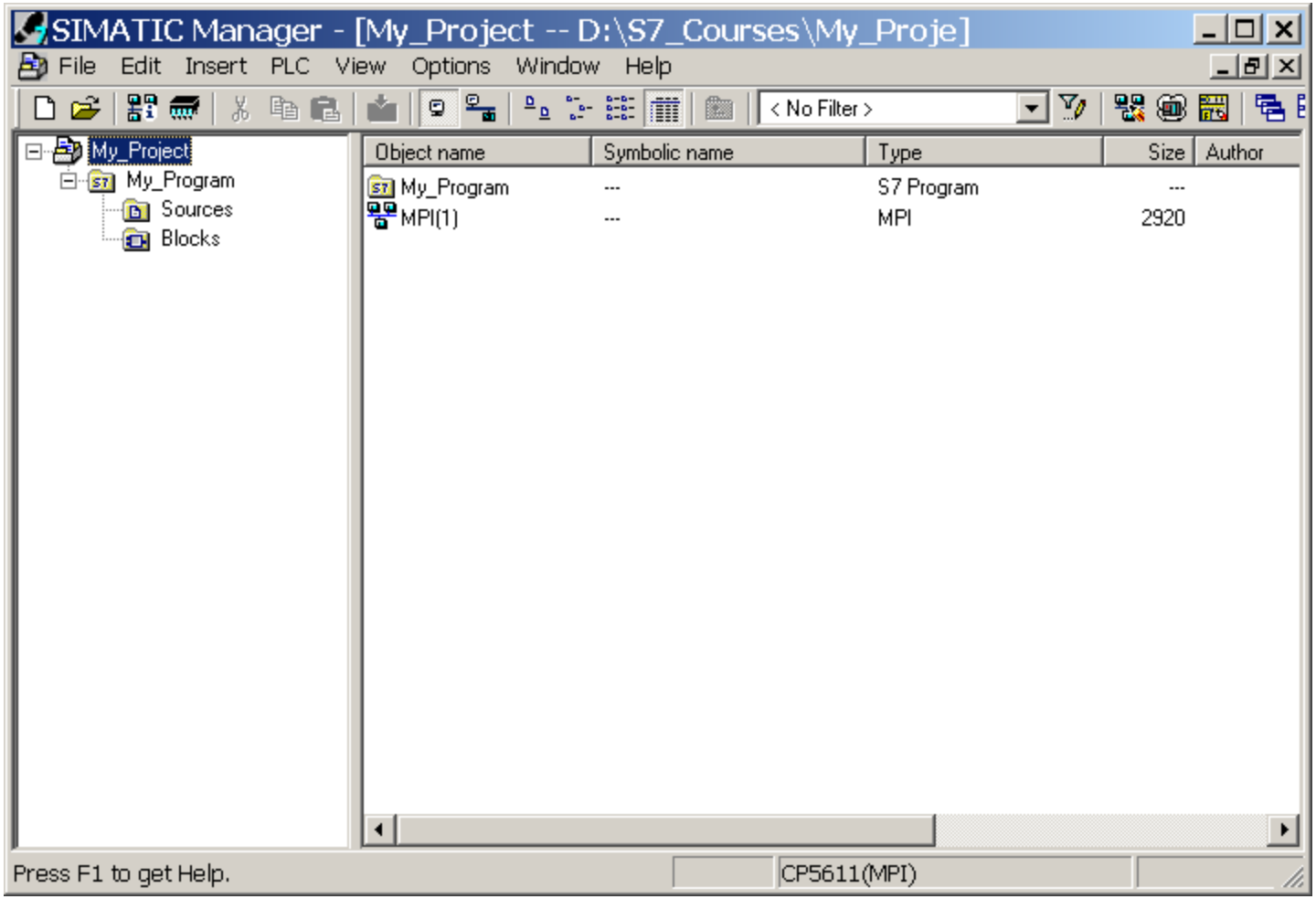


Opening a Variable Table and Establishing a Connection to the CPU





Exercise 3: Creating a Project



If You Want to Know More

SIMATIC Manager Customizing Options