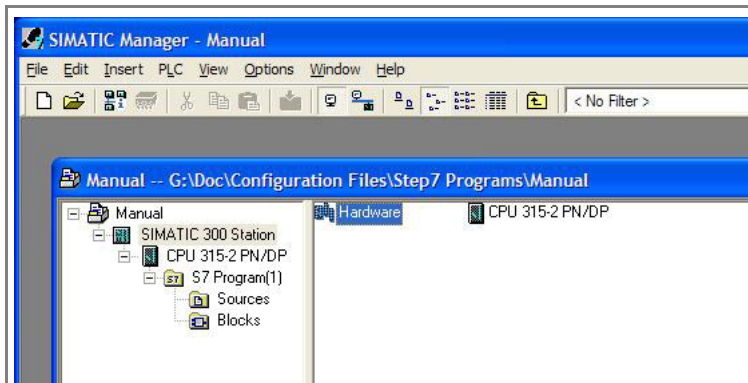


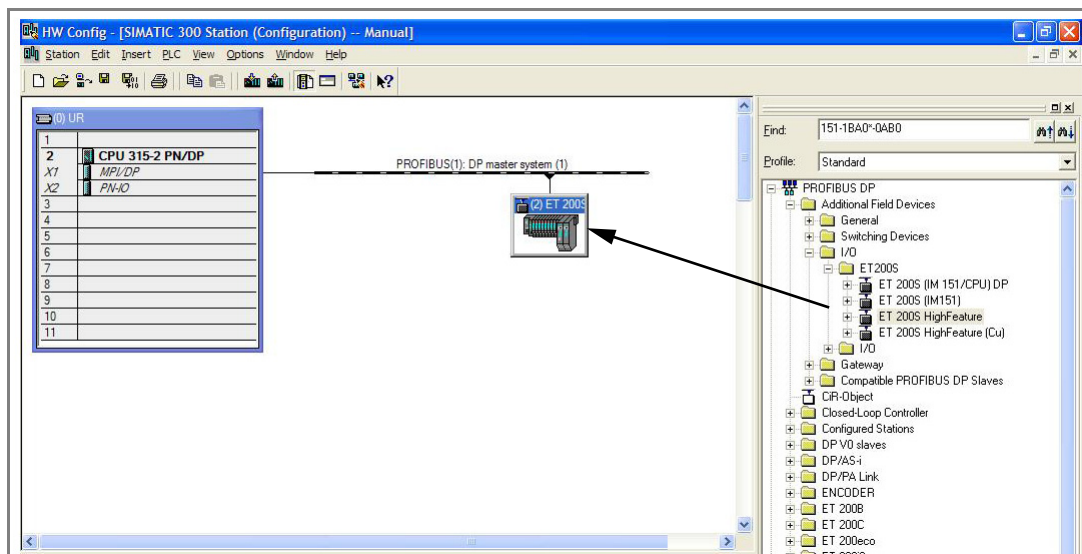
1 SI CANopen STEP7 Configuration Example

STEP7¹ configuration of the ET200S Distributed I/O System and the 1 SI CANopen Module for ET200S.

1. Open the SIMATIC Manager program and start a new project. Enter a name for the project.
2. Right-click on the name and choose “Insert new object”.
3. In the list that appears, click on SIMATIC 300 Station.



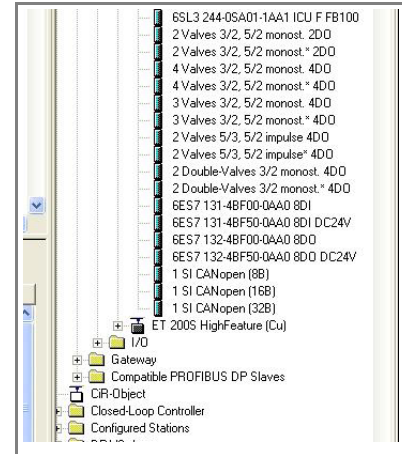
4. Select “Hardware”
5. Choose PLC. Add this to the configuration by dragging and dropping.
6. Drag and drop the correct type of ET200S Distributed I/O System to the network.



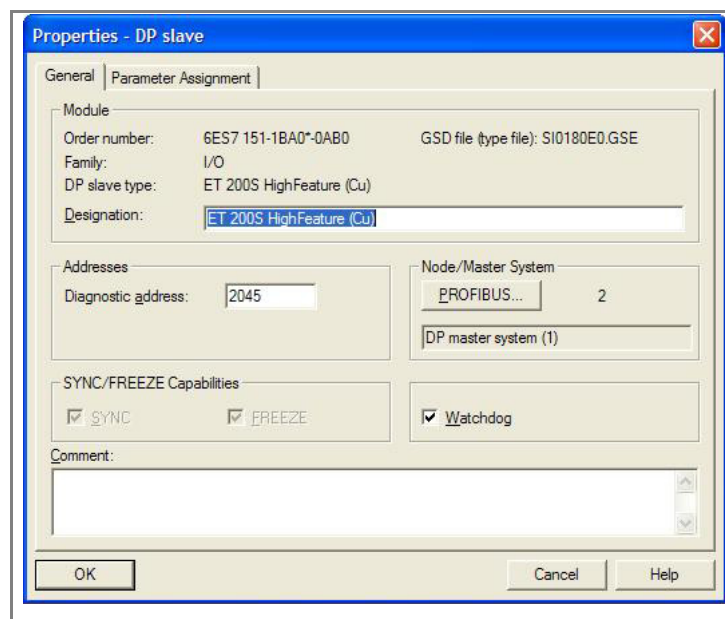
In this example PROFIBUS and an ET200 rack without CPU is used, but the same procedure is valid for PROFINET

1. STEP7 V5.4 SP5 or later

7. Click on the ET200S module in the list to the right to open the directory of possible modules. Locate the “1 SI CANopen” modules¹ under special modules. Click to add this at the appropriate place in the list of modules in the ET200S Distributed I/O System rack.



8. Double-click on the ET200S module to define the node address on the PROFIBUS network.



1. The physical module is always the same, but you can choose what data size to use, to fit your application.

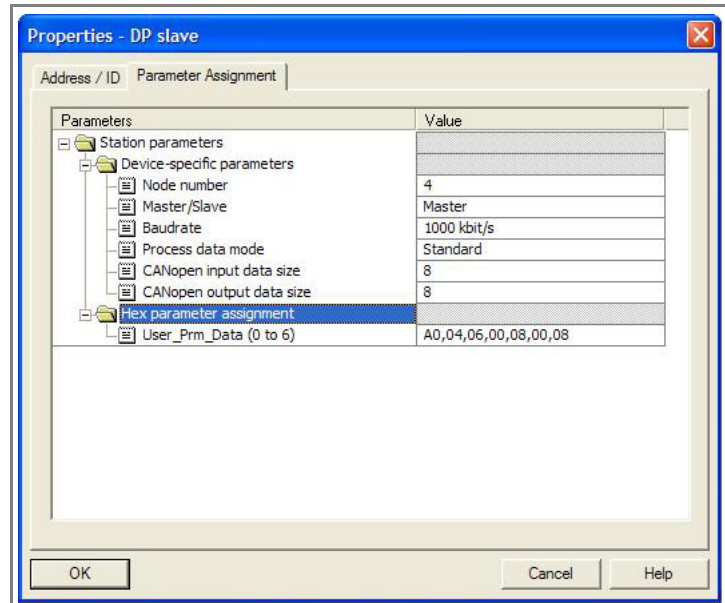
9. Right-click on the 1 SI CANopen Module for ET200S in the list and open the Object Properties window.

10. Choose the Address /ID tag to set the I/O data address offset in the PLC.

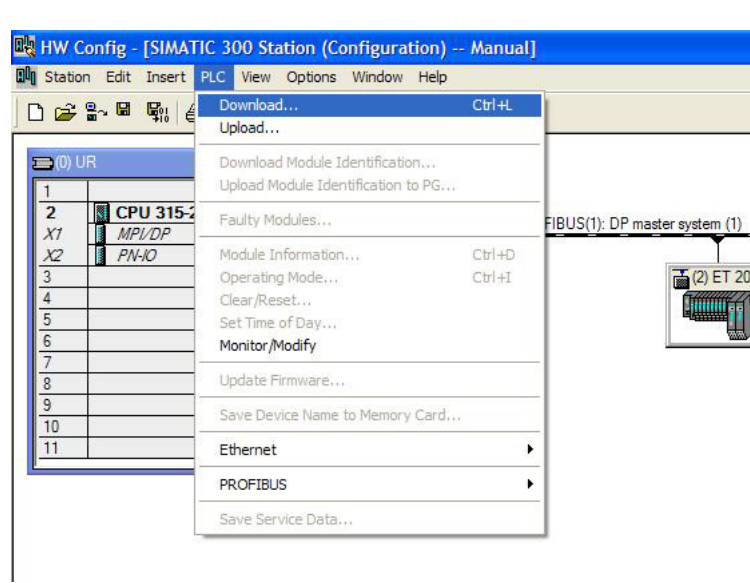
The screenshot shows the 'Properties - DP slave' dialog box with the 'Address / ID' tab selected. The 'I/O Type' is set to 'Out-input'. The 'Output' section has 'Start' at 4, 'End' at 11, 'Length' at 4, 'Unit' at 'Words', and 'Consistent over' at 'Total length'. The 'Input' section has 'Start' at 4, 'End' at 11, 'Length' at 4, 'Unit' at 'Words', and 'Consistent over' at 'Total length'. The 'Process image' is set to 'OB1 PI'. There is a 'Direct Entry...' button and 'OK', 'Cancel', and 'Help' buttons at the bottom.

11. Choose the Parameter Assignment tag to define the values in the parameter list. Please note that these parameters are valid for the module on the CANopen network.

The 1 SI CANopen Module for ET200S is configured as a CANopen master with standard (not fragmented) process data mode and input/output data size 8 bytes. The node number on the CANopen network is 4 and the baud rate is 1000 kbit/s.



12. Download the configuration to the PLC.



The 1 SI CANopen Module for ET200S is now configured as a slave on the PROFIBUS/PROFINET network, and, depending on the parameters, as a slave or a master on the CANopen network.