

# **Siemens Profibus Network Set up with H2–PBC**

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In This Appendix. . . .

— Siemens Profibus Network Setup with a H2–PBC

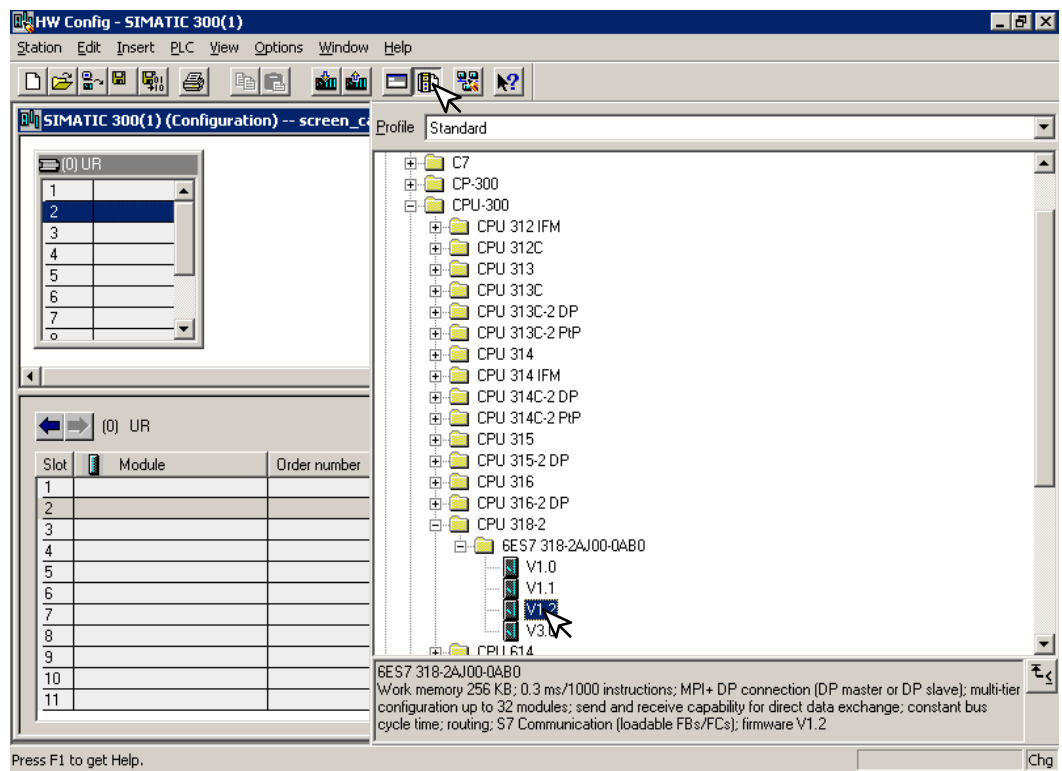
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## Setup a H2-PBC on Siemens Profibus Network

For those who are using the H2-PBC slave on a Profibus network with a Siemens PLC, the examples on the following pages will step you through the process of setting up your network. The PLC used as Profibus master in this example is a Simatic 300.

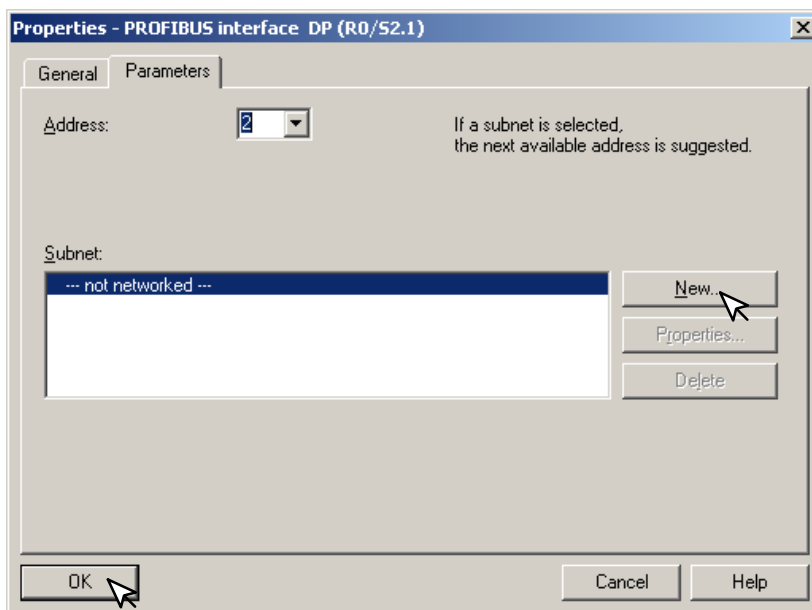
**Simatic Manager** Begin by opening your SIMATIC Manager to configure the Profibus driver.

1. Use the hardware configuration to select the PLC processor.
2. Open the catalog window by clicking on the **Catalog** button, and select the proper S7 processor.



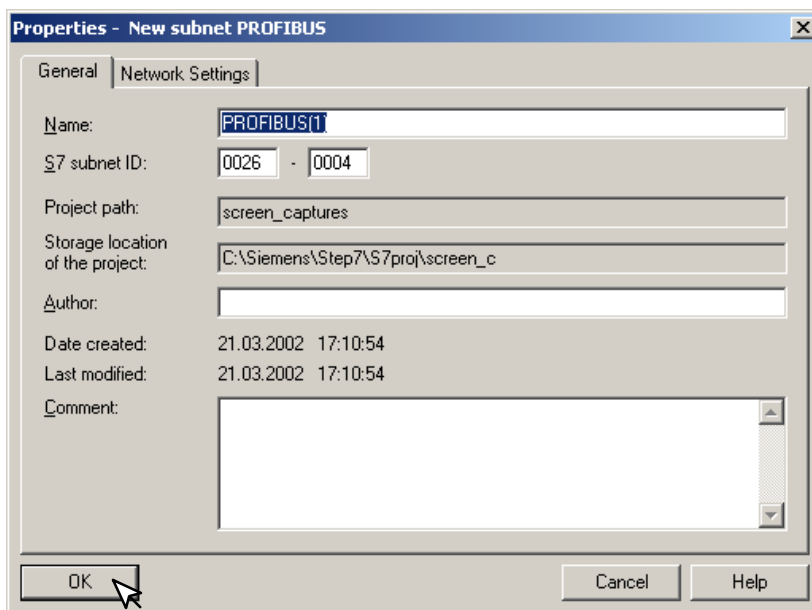
After selecting the processor, the DP interface properties window will pop-up.

3. Select **New**, and **OK**.

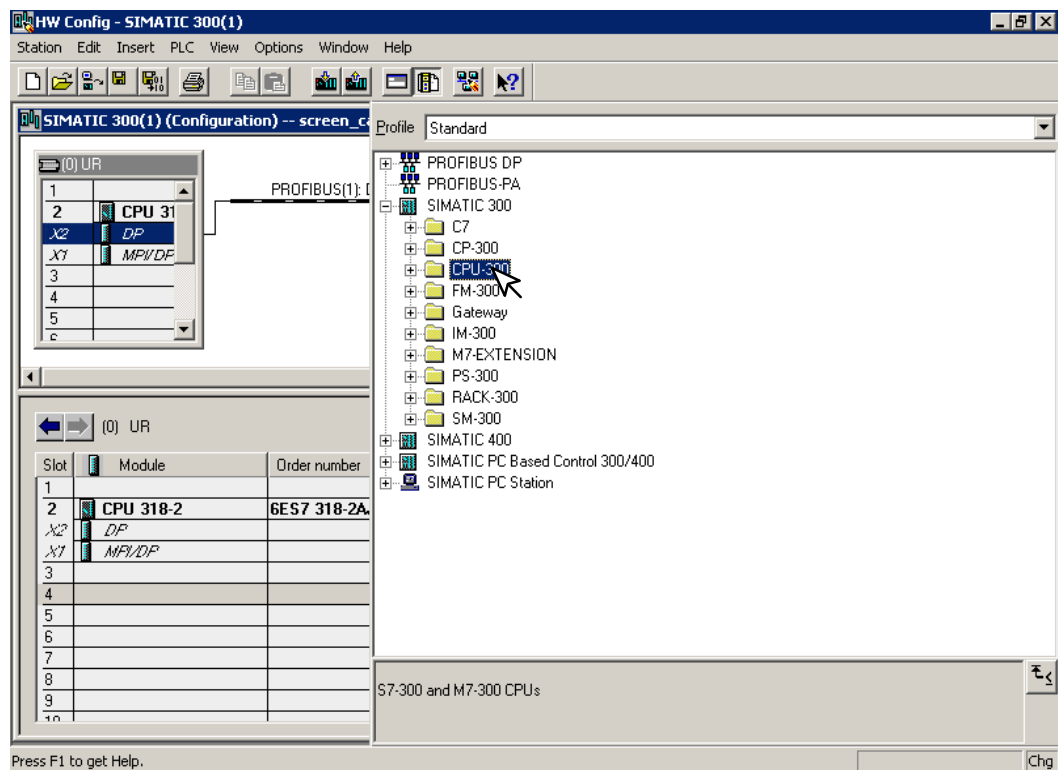


The New subnet window will appear allowing you to name the subnet. The new ID is also in the window.

4. Make the necessary entries, then click **OK**.

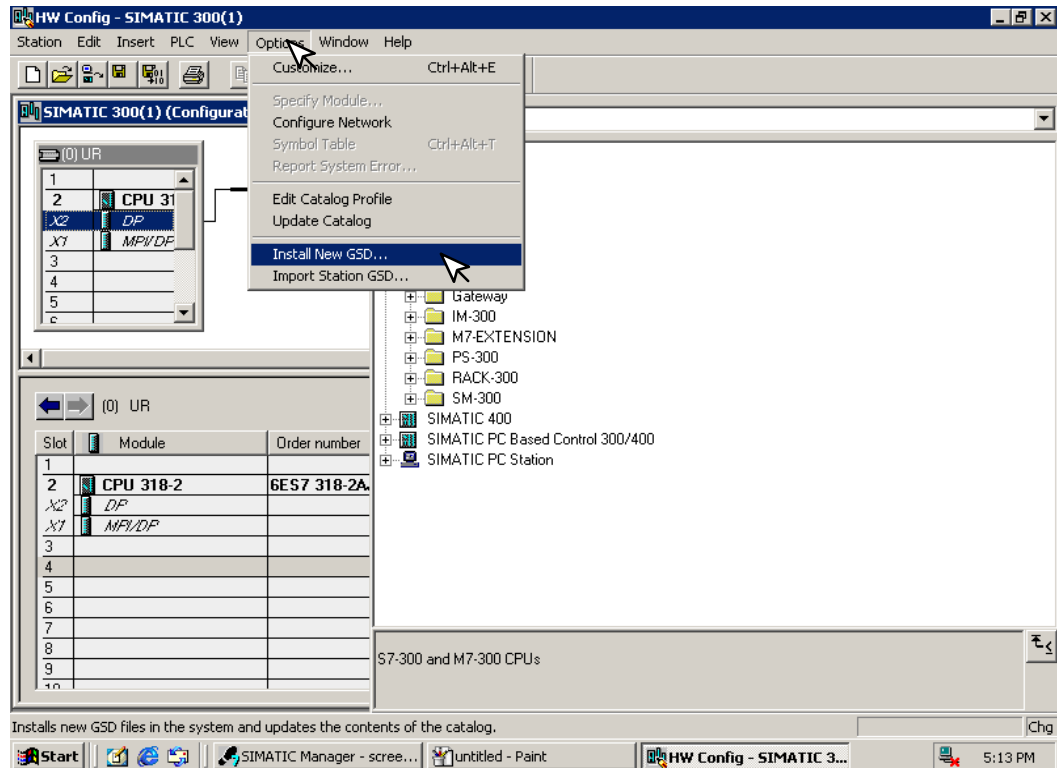


Once the processor has been selected and the DP network is enabled, the configuration window should look like the diagram below.

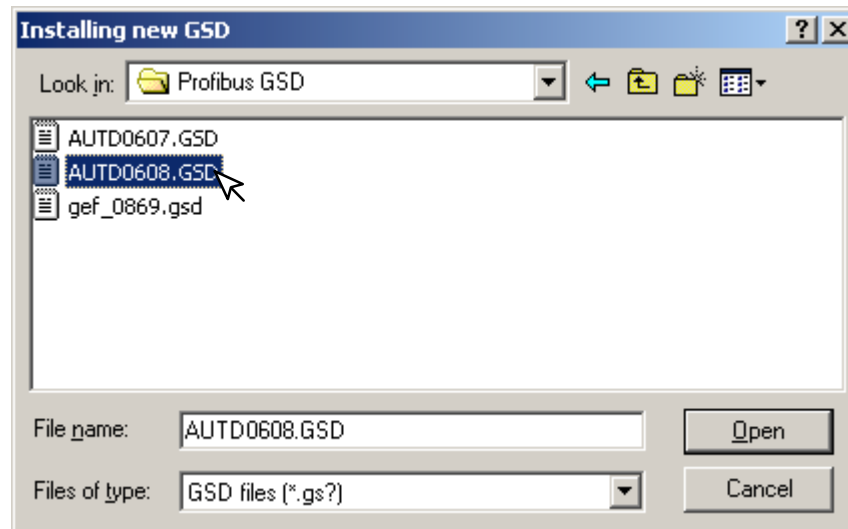


The GSD file will need to be installed now.

5. Click on **Options** and select **Install New GSD...** in the drop-down window.

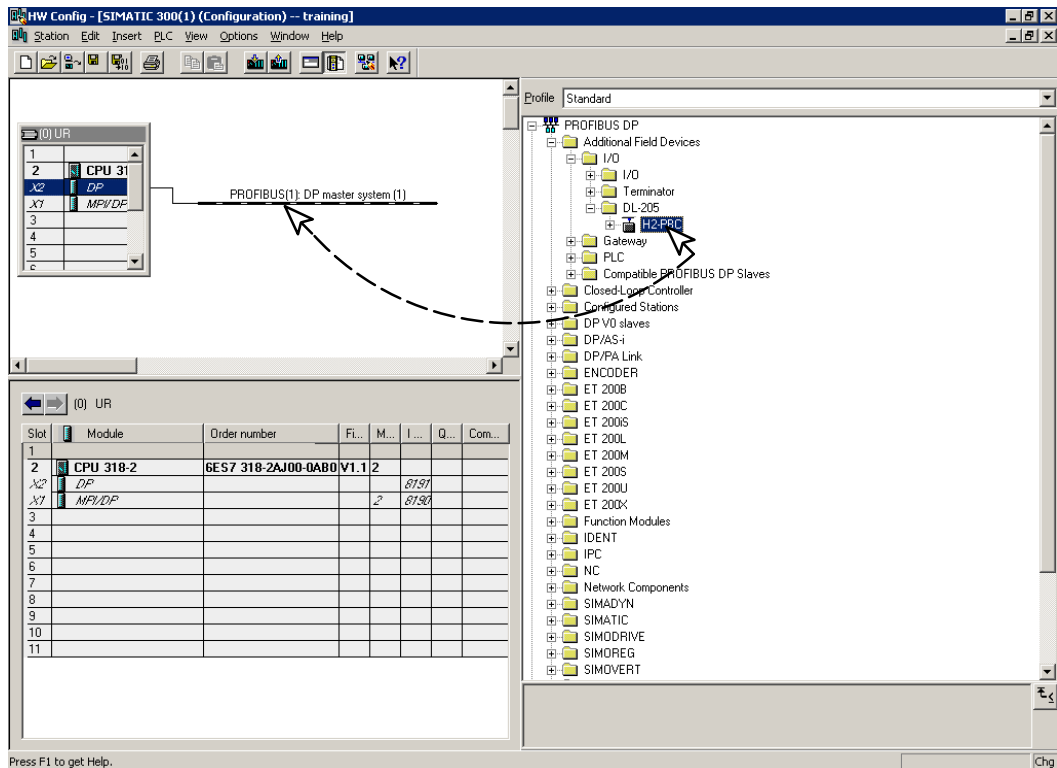


After installing the GSD file, the drop-down window will show the name of the newly loaded file.

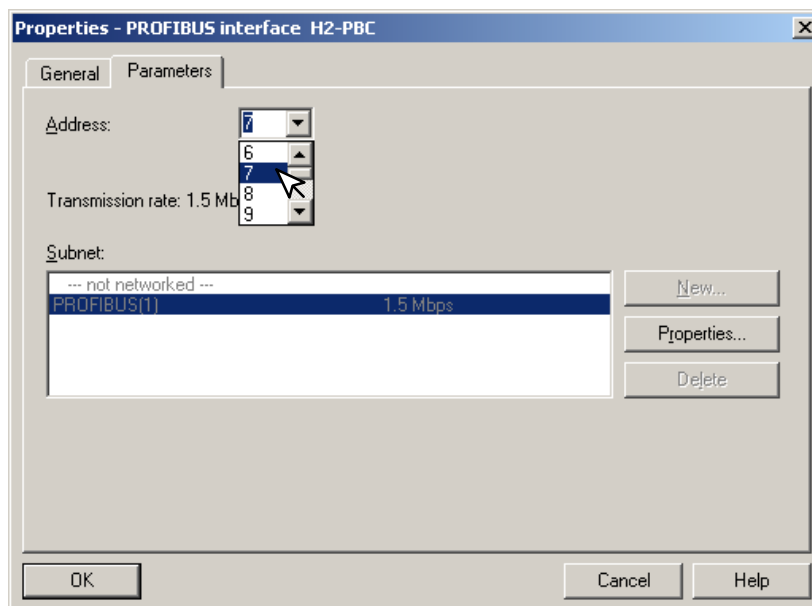


The Configuration window will look like the one below.

6. Now, click on the H2-PBC and drag it to the Profibus network.

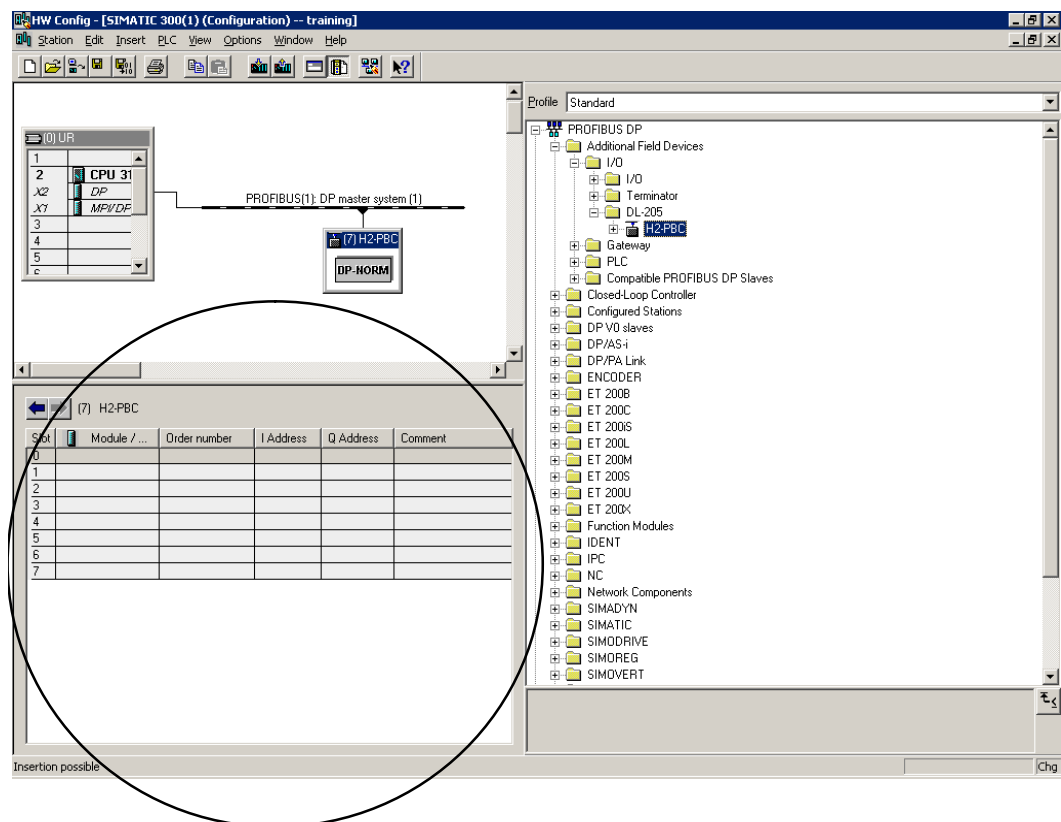


When the mouse button is released at the network node, the **Properties** window will appear so the correct node address can be entered. The transmission baud rate can be changed at this time also. Click **OK** when finished.



Now that the H2-PBC is a node on the Profibus network, the Terminator I/O needs to be added to the DP Base Controller.

7. Open the H2-PBC configuration window by clicking on H2-PBC at the node.



Open the H2-PBC I/O list by clicking on the + sign next to H2-PBC. Now you can choose the I/O modules which are installed in your Terminator base. You have the option of selecting the generic I/O or the Terminator I/O part number. The generic name is selected in this example.

8. Either click on the I/O name that you want and drag it to the configuration table to the left or double click on the I/O name and it will automatically go to the configuration list.

HW Config - [SIMATIC 300(1) (Configuration) -- training]

Station Edit Insert PLC View Options Window Help

Profile: Standard

PROFIBUS(1): DP master system (1)

(7) H2-PBC

Slot	Module / ...	Order number	I Address	Q Address	Comment
0	192	F2-04AD-2DA ANAL	256...263	256...259	
1	8DI	8 POINT DISCRETE I			
2	16DO	D2-12TA 12PT DIS		0...	
3					
4					
5					
6					
7					

8 CHANNEL ANALOG INPUT  
2 CHANNEL ANALOG OUTPUT  
8 CHANNEL ANALOG OUTPUT  
4 IN / 2 OUT ANALOG COMBO  
D2-08ND3 8PT DISCRETE INPUT  
D2-16ND3-2 16PT DISCRETE INPUT  
D2-32ND3-32PT DISCRETE INPUT  
D2-32ND3-2 32PT DISCRETE INPUT  
D2-08NA-1 8PT DISCRETE INPUT  
D2-08NA-2 8PT DISCRETE INPUT  
D2-16NA 16PT DISCRETE INPUT  
F2-08SIM 8PT INPUT SIMULATOR  
D2-04TD1 4PT DISCRETE OUTPUT  
D2-08TD1 8PT DISCRETE OUTPUT  
D2-08TD2 8PT DISCRETE OUTPUT  
D2-16TD1-2 16PT DISCRETE OUTPUT  
D2-16TD2-2 16PT DISCRETE OUTPUT  
D2-32TD1 32PT DISCRETE OUTPUT  
D2-32TD2 32PT DISCRETE OUTPUT  
D2-08TA 8PT DISCRETE OUTPUT  
D2-12TA 12PT DISCRETE OUTPUT  
D2-04TRS 4PT RELAY OUTPUT  
D2-08TR 8PT RELAY OUTPUT  
F2-08TR 8PT RELAY OUTPUT  
F2-08TRS 8PT RELAY OUTPUT  
F2-08TA 8PT TRIAC OUTPUT  
D2-12TR 12PT RELAY OUTPUT  
D2-08CD 8PT INPUT/OUTPUT  
F2-04AD-1 4CH ANALOG INPUT  
F2-04AD-1L 4CH ANALOG INPUT  
F2-04AD-2 4CH ANALOG INPUT  
F2-04AD-2L 4CH ANALOG INPUT  
F2-08AD-1 8CH ANALOG INPUT  
F2-08AD-2 8CH ANALOG INPUT

Insertion possible

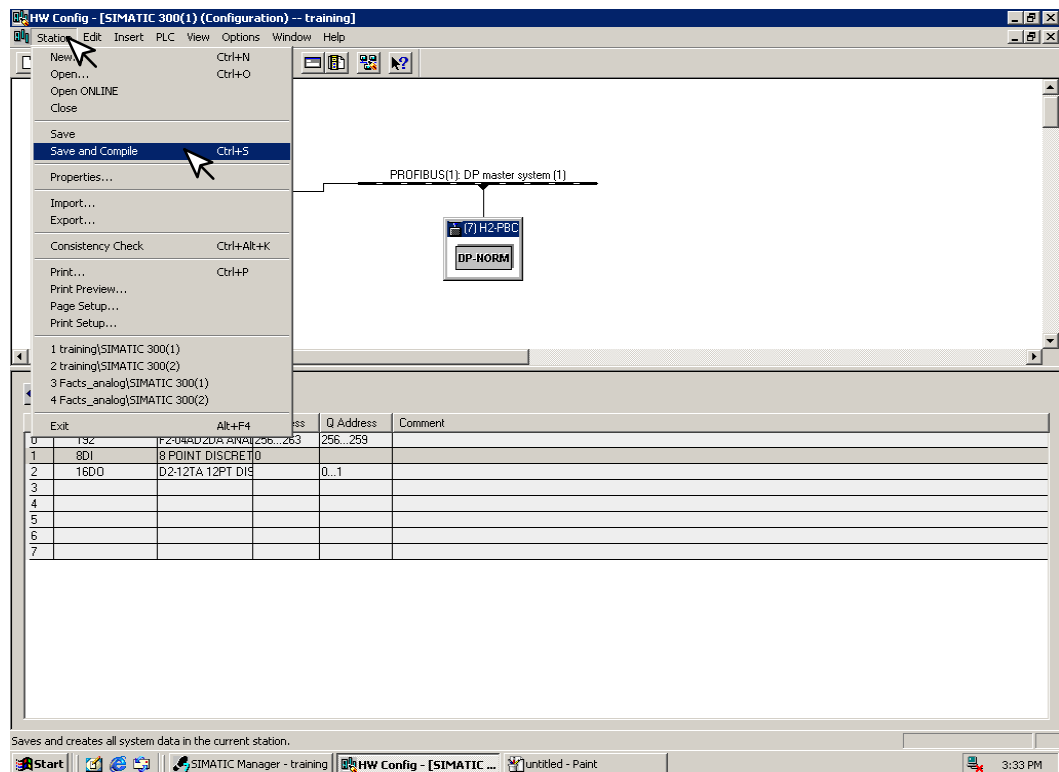


After you have finished configuring the I/O for the H2-PBC DP Slave, the configuration window will look like the example below.

The screenshot shows the HW Config window for a SIMATIC 300(1) system. The rack configuration is as follows:

Slot	Module / ...	Order number	I Address	Q Address	Comment
0	192	F2-04AD-2DA-ANA	256...263	256...259	
1	8DI	8 POINT DISCRE			
2	16DO	D2-12TA-12PT DIS		0...1	
3					
4					
5					
6					
7					

8. Now, click on **Station**, then click on **Save and Compile** update your project. This will save the project for downloading to the PLC.



9. Select **PLC** and **Download...** the hardware setup that was saved.

