

## How to do

### a System 100V hardware configuration with Simatic Manager from Siemens

1. Start the Simatic Manager from Siemens, open a new project.
2. Insert a 300 station
3. Open the Hardware Configurator
4. In the HW Configurator, open the catalog,
5. insert a 300 Rack,
6. insert the CPU 315-2DP (6ES7 315-2AF03-0AB0).  
Now a dialog opens where you click on *New* for a new DP line
7. The next dialog opens where you click on *OK* and again on *OK*.  
Now you should see a CPU315-2DP with attached DP line.
8. For the next steps, the GSD file VIPA\_11X.GSD must be installed in the hardware catalog.
9. In the HW catalog, open the *PROFIBUS-DP note*, then open *I/O, VIPA* (see picture below).
10. Move the object VIPA\_CPU11x with the mouse close to the profibus line.
11. In the dialog *Properties – PROFIBUS interface* select the *DP address 1* and click on *OK*.
12. Now a virtual DP slave is attached to the Profibus (see picture below)
13. Go again in the catalog and open the object VIPA\_CPU11x.  
Now you can see all the available modules for the CPU11x.
14. In the grid on the left bottom, select the *Slot 0* for insertion of modules.
15. In the HW catalog search the correct CPU type, e.g. 115-6BL01 CPU115, double click on it.  
Now you can see it in slot 0 (see picture below)
16. Now you can insert up to 4 modules, that are used in your local System 100V station.
17. When finished, go to the menu *Station > Save and Compile* for the whole configuration to be compiled and saved.
18. Connect the MPI or the VIPA Green Cable to the PLC and your PC.
19. With the menu *PLC > Download...*, you transfer the HW configuration to your PLC.
20. Now start the PLC with the Run/Stop switch at the frontside. If the configured modules are attached to the PLC, then it should go into the RUN state.
21. Close the HW configurator.

# How to do

HW Config - SIMATIC 300(1)

Station Edit Insert PLC View Options Window Help

SIMATIC 300(1) (Configuration) -- CPU100V

Profile Standard

(0) UR

1

2 CPU 315-2 DP

X2 DP

3

4

5

6

7

PROFIBUS(1): DP master system (1)

(1) VIPA\_CI CPU11x

(1) VIPA\_CPU11x

Slot	Module / ...	Order number	I Address	Q Add...	C...
0	24DX	115-6BL01 CPU 115 DI032	0..2	0..2	
1	16DX	123-4EH00 DI8xDC24V DO8xDC24V	3..4	3..4	
2					
3					
4					
5					
6					
7					
8					
9					
10					

Press F1 to get Help.

Chg

Profile Standard

- Drives
- I/O
  - I/O
  - VIPA
  - ET200M
  - ET200S
  - VIPA\_System\_100V
    - VIPA\_DP100V
    - VIPA\_CPU11xDP
    - VIPA\_CPU11x
      - Universal module
      - 112-4BH00 CPU 112
      - 114-6BJ00 CPU 114
      - 114-6BJ01 CPU 114
      - 114-6BJ50 CPU 114
      - 115-6BL00 CPU 115
      - 115-6BL01 CPU 115
      - 115-6BL20 CPU 115
      - 115-6BL21 CPU 115
      - 123-4EH00 DI8xDC2
      - 123-4EJ00 DI16xDC2
      - 123-4EJ10 DI16xDC2
      - 123-4EJ20 DI16xDC2

Example hardware configuration