

How-To-Do

# Hardware Configuration of the CPU 317NET with external CPs on the SPEED Bus by WinPLC7 from VIPA

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### 1 General

#### 1.1 Information

This 'How-To-Do' describes, how you can perform the hardware configuration of the CPU 317NET, on which external CPs are connected via SPEED Bus, by WinPLC7 from VIPA.

You can find a detailed description of the CPU 317NET in the manual under the link <a href="http://www.vipa.com/uploads/tx\_sbdownloader/HB140E\_cpu\_317-4NE12\_12-51.pdf">http://www.vipa.com/uploads/tx\_sbdownloader/HB140E\_cpu\_317-4NE12\_12-51.pdf</a>.

#### 1.2 Reference

In this 'How-To-Do' the principal procedure is described by means of an example.

Liability for material defects and defects of this documentation, especially for the correctness, accuracy, freedom and protection or third party rights, completeness and / or usability - except for willful misconduct or bad faith - is excluded.



## 2 Step by Step Procedure of the Configuration

- 1. Start the WinPLC7 Tool from VIPA and create a new project.
- 2. Open the hardware configurator in the project-tree under "Hardware stations" -> "Create new".
- 3. Now create a VIPA SPEED7 Station.
- 4. The catalog opens, in which you can now insert the CPU under *CPU Speed* 7\_*CPU* 317 *NET\_317-4NE12 317SE/NET* by double click. The integrated CPU components are automatically inserted into the UR3 Register. Now the station should look like the following picture:

= URU = UR1 = UR2 = UR3   7 SpeedBus				Goto WinPLC	
Slot	Module	Order No.	MPI address	l address	Q address
1					
2	317-4NE12 317SE/NET	317-4NE12 317SE/NET	2		
-×2	DP			8191	
-×1				8190	
3	IM 360	Virtual IM		2000	
4					
5					
6					
7					
8					
9					
10					
11					

Insert beginning at slot 4 all modules, which are located on the standard bus to the right of the CPU. Mark the line and insert them by double click on the module. In this HTD example 1x 16Bit digital input module und 1x 16Bit Digital output module ( under: *S7-300\_DI-300 and S7-300\_DO-300* ) were used.

≡ UR	UR0 = UR1 = UR2 = UR3 T SpeedBus				Goto WinPLC7	
Slot	Module	Order No.	MPI address	l address	Q address	
1						
2	317-4NE12 317SE/NET	317-4NE12 317SE/NET	2			
-×2	DP			8191		
-×1				8190		
3	IM 360	Virtual IM		2000		
4	SM321 DI16xDC24	6ES7 321-7BH80-0AB0		0-1		
5	SM322 D016xAC120V/0.5A	6ES7 322-1EH01-0AA0			4-5	
6						
7						
8						
9						
10						
11						



Shift to the register card "Speed Bus". Here you must insert all external CPs, which are located to the left of the CPU on the SPEED Bus. In this HTD example 2x DP-Master (directory: S7-300 -> Speed-Bus-Module -> 342-1DA70 DP Master) and 1x Ethernet CP (directory: S7-300 -> Speed-Bus-Module -> 343-1EX71 Ethernet-CP) were used. Now the station should look like the following picture:

lot	Module	Order No.	MPI address	Laddrass	0 address
100	0x00	317-4NE12 317SE/NET	ini i dadicas		di dadicoo
101	0x00	342-1DA70 DP Master			
102	0x00	342-1DA70 DP Master			
103	0x02	343-1EX71 EthernetCP			
04					
105					
106					
107					
108					
109					
110					

ilot	Module	Order No.	MPI address	I address	Q address
2					
3	IM 361	Virtual IM		2012	
4					
5					
6	Speed7 (CP342-DP)	SpeedBus CP342-DP	122	704-719	704-719
7	Speed7 (CP342-DP)	SpeedBus CP342-DP	121	768-783	768-783
8	Speed7 Ethernet (CP343)	PG/0P-Channel	124	720-735	720-735
9	Speed7 Ethernet (CP343)	Onboard NetCPU-Channel	123	736-751	736-751
10	Speed7 Ethernet (CP343)	SpeedBus CP343	120	784-799	784-799
11	SpeedBus (CP342-DP)	Virtual DP-System	125	752-767	752-767

- 7 For transferring the hardware configuration you must at first specify the mode of the transfer. This must be adjusted in the menu bar under *,Target*<sup>+</sup>. Then execute the transfer of the hardware configuration in the menu bar.
- 8. Then a window opens, in which the detailed settings for the transfer are adjusted.
- 9. Close the hardware configurator after the transfer.



## 3 Revision History

#### 3.1 Changes:

DATUM	ÄNDERUNGEN	BEARBEITER
05.06.2009	Erstellung	S. Spangher
02.06.2014	Überarbeitung Layout und Textanpassungen	N. Schlimm
18.03.2014	Übersetzung Englisch	N. Schlimm
02.06.2014	Textanpassen und Screenshots (Englisch)	M. Dörnhöfer