

**BM7x0 Profinet IO Configuration****RULES**

last update: 13/6/2012

**Question:**

How to configure the PLC I/O area in order to properly connect the Datalogic BM7x0 Profinet IO module?



Profinet

**Answer:**

The PLC I/O configuration **MUST** respect the following 4 requirements:

1. Before put the **OUTPUT** modules, then the **INPUT** ones
2. I/O module format: **1-Byte**
3. Max total I/O size (Input + Output): **64 bytes**
4. Min size for the Input area and for the Output area: **8 bytes**

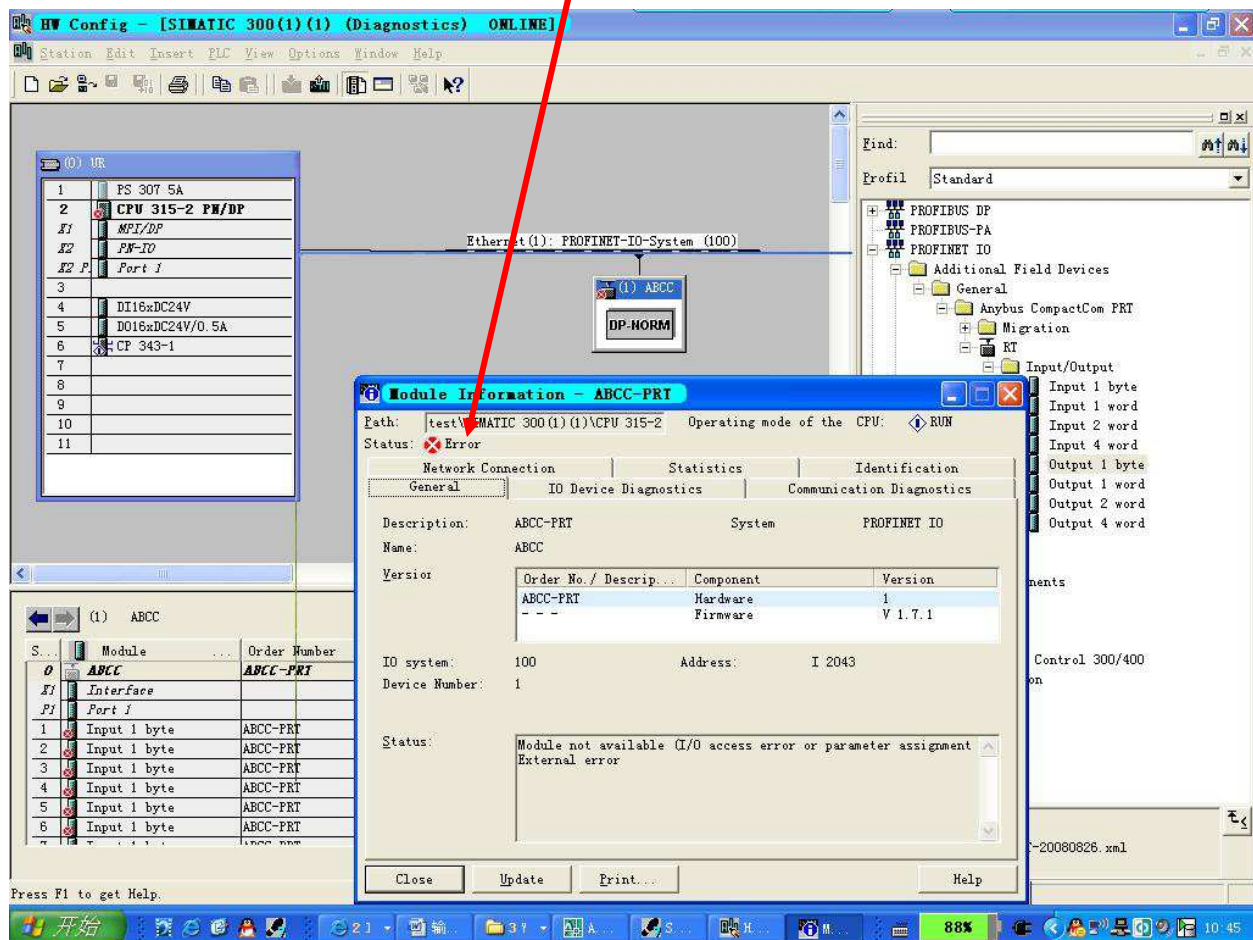
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As example of rules 1 and 2, herewith attached are 2 pictures from a S7 HW configuration:

- the picture below shows a **PLC error condition**, due to the Input modules have been listed before than the Output ones,



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- the picture below shows the **right sorting, output before input**, then the PLC confirms the good connection

The screenshot shows the SIMATIC Manager HW Config interface. On the left, a rack configuration table lists modules. A green arrow points from the text 'right sorting, output before input' to the 'Output 1 byte' modules in the rack. On the right, the 'Module Information - ABCC-PRT' dialog is open, showing details for the selected module.

**Rack Configuration Table:**

Slot	Module	Order Number	I Add...
1	PS 307 5A		
2	CPU 315-2 FW/DP		
3	DI16xDC24V		
4	DO16xDC24V/0.5A		
5	CP 343-1		
6	ABCC	ABCC-PRT	
7	Output 1 byte	ABCC-PRT	
8	Output 1 byte	ABCC-PRT	
9	Output 1 byte	ABCC-PRT	
10	Output 1 byte	ABCC-PRT	
11	Output 1 byte	ABCC-PRT	

**Module Information - ABCC-PRT Dialog:**

Path: test\SIMATIC 300(1)(1)\CPU 315-2 Operating mode of the CPU: RUN  
 Status: OK

Communication Diagnostics | Network Connection | Identification

General | IO Device Diagnostics

Description: ABCC-PRT System: PROFINET IO  
 Name: ABCC

Version	Order No. / Descrip...	Component	Version
	ABCC-PRT	Hardware	1
		Firmware	V 1.7.1

IO system: 100 Address: I 2043  
 Device Number: 1

Status: Module available and o.k.

Buttons: Close, Update, Print..., Help