

DP-master/CPU-matrix

With CPU- and DP master firmware version V3.00 two significant changes are affecting the VIPA S7-Systems:

1. Peripheral address range DP master 1024kB (until now just realized for the CPU)
2. Consistent data transfer via Profibus-DP: SFC14, SFC15 (until now just realized via central backplane)

To realize these functions it has been necessary to alter the two firmware-files (CPU and DP master) deeply. This causes that the firmware releases are not compatible with former versions.

CPU and DP master are only running correctly, if

1. CPU and DP master both have a firmware version = V3.00, or
2. CPU and DP master both have a firmware version < V3.00.

In the following we will show the different constellations and how the customer could realize the functionality. At this point you have to especially regard, that the DP master of the CPU 31x may not be updated by the customer. That means that customers, who deploy a CPU 31xDPM (FW < V3.00), don't have functionality any more after updating the CPU to FW = V3.00. As a consequence you either have to restore the last V2.xx release or you have to send the CPU to VIPA for a DP master update.

DP-master \ CPU	CPU	CPU24x	CPU211-213	CPU214-216 (FW < V3.00)	CPU214-216 (FW = V3.00)	288-2BL10 (FW < V4.00)	288-2BL10 (FW = V4.00)	CPU31xDPM (FW < V3.00)	CPU31xDPM (FW = V3.00)
208-2DPx0* (FW < V3.00)	V		V	V	DP-Upd.: KB37	V	DP-Upd.: KB37		
208-2DPx0* (FW = V3.00)		DP-Downgrade via KB37		CPU-Update	V	PC-Update	V		
208-1DP01 AG**1 (FW < V3.00)	V		V	V	DP-Upd.: KB37	V	DP-Upd.: KB37		
208-1DP01 = AG2 (FW < V3.00)	V		V	V	DP-Upd.: GreenCable	V	DP-Upd.: GreenCable		
208-1DP01 AG1 (FW = V3.00)		DP-Downgrade via KB37		CPU-Update	V	PC-Update	V		
208-1DP01 = AG2 (FW = V3.00)		DP-Downgrade via GreenCable		CPU-Update	V	PC-Update	V		
CPU31xDPM (FW < V3.00)								V	DP-Update at VIPA
CPU31xDPM (FW = V3.00)								unlikely	V

*) Labeling at module: 208-1DP00 resp. 208-1DP10

**) AG stands for "Ausgabestand", that means hardware release version

For the STEP5- resp. IEC-CPU's there aren't suiting firmware files yet and they also are not planned. For this reason it may be necessary to "downgrade" the DP master.