

Question:

How can the SIMOCODE-DP device be integrated at STEP 7 HW Config when using the SIMOCODE-DP Library for PCS 7 V6.0?

Answer:

The integration of SIMCODE-DP at STEP 7 HW Config depends on the assignment of it:

- directly to a DP Master System or
- behind a Y-Link.

Remark

For the project configuration, please do **not** use the device *PROFIBUS-DP→Switching Devices→SIMOCODE-DP* from the Hardware Catalog, Profile PCS7_V60.

This GSD should be exclusively used for SIMOCODE-DP devices with an release less than E10 (before June 1998).

SIMOCODE-DP, directly assigned to the DP Master System*Project Configuration at STEP 7 HW Config*

If you want to use SIMATIC PDM to parameterize SIMOCODE-DP, please use the SIMOCODE-DP device below *PROFIBUS-DP→Switchgear→SIMOCODE-DPV1 (PDM)* from the Hardware Catalog, Profile *Standard*.

For parameterization without SIMATIC PDM, you have to first install the required GSD file (SIEM8069.GSE) for SIMOCODE-DP.

The GSD can be downloaded directly from the following site:

<http://support.automation.siemens.com/WW/view/en/113630>

Downloads→Switchgears→SIMOCODE-DPV1

After installation, the new installed SIMOCODE-DPV1 device can be found in the Hardware Catalog below:

PROFIBUS-DP→Additional Field Device→Switchgear→SIMOCODE

Depending on the setting of the DP Master Mode, for the project configuration you have to choose between two SIMOCODE-DP module descriptions

S7-compatible: BasicType 2 com or for *DPV1: BasicType 2 compact*.

SIMOCODE-DP Parameters

Using the software WinSIMOCODE-DP, below *Bus→PROFIBUS-DP*, please set the parameters *Data Type* to *Basic Type 2* and the *Operating Mode* to *DPV1*.

SIMOCODE-DP, assigned behind a Y-Link DPV1 (MLFB IM 157: 6ES7 157-0AA82-0XA0)*Project Configuration at STEP 7 HW Config*

If you want to use SIMATIC PDM to parameterize SIMOCODE-DP, please use the SIMOCODE-DP device below *PROFIBUS-DP*→*Switchgear*→*SIMOCODE-DP (PDM)* from the Hardware Catalog, Profile *Standard*.

For parameterization without SIMATIC PDM, please use the SIMOCODE-DP device *PROFIBUS-DP*→*Switchgear*→*SIMOCODE-DP* found in the Hardware Catalog, Profile *Standard*.

For project configuration, always choose the module type *Basic Type 2 compact*.

Please note that the DP Master System, where the Y-Link DPV1 is assigned, has to be operated in DP Mode DPV1.

Remark

The online-help of the SIMO_CHN block contains information about the number of SIMOCODE-DP devices that can be assigned to a Y-Link in *Basic Type 2 compact*. This information is related to a Y-Link (DPV0) using the IM 157 (MLFB: 6ES7 157-0AA81-0XA0).

For a Y-Link (DPV1), using the IM 157 (MLFB: 6ES7 157-0AA82-0XA0), the number of SIMOCODE-DP devices that can be assigned in *Basic Type 2 compact* is limited to 47. This limitation is due to the maximum number of slots per Y-Link (47 x 5 Slots = 235 Slots, max. 236 Slots).

SIMOCODE-DP Parameters

Using the software WinSIMOCODE-DP, below *Bus*→*PROFIBUS-DP*, please set the parameters *Data Type* to *Basic Type 2* and the *Operating Mode* to *DP-Norm*.

SIMOCODE-DP, assigned behind a Y-Link DPV1 (MLFB IM 157: 6ES7 157-0AA81-0XA0)

This configuration is not permitted for use with the SIMOCODE-DP Library for PCS 7 V6.0.

Overview: Project Configuration of SIMOCODE-DP at STEP 7 HW Config for use with the SIMOCODE-DP Library for PCS 7 V6.0

	SIMOCODE-DP	
	directly at DP Master System	behind a Y-Link (MLFB IM 157: 6ES7 157-0AA82-0XA0)
DP Mode DP Master	S7-compatible or DPV1	DPV1 (S7-compatible: not recommended)
GSD for project configuration in STEP 7 HW Config	SIEM8069.GSE or SIEP8069.GSE (SIMATIC PDM) <i>S7-compatible: BasicType 2 com or DPV1: BasicType 2 compact</i> (depending on the DP Master Mode)	SIEM8031.GSE or SIEP8031.GSE (SIMATIC PDM) <i>Basic Type 2 compact</i>
SIMOCODE-DP Bus Parameters	Operating Mode: DPV1 Data Type: Basic Type 2	Operating Mode: DP Norm Data Type: Basic Type 2