

## XDD File History

Version 2025-10-10-EN

**Dear customer,**

For establishing a POWERLINK communication with ServoOne, ServoOne CM or KeDriveD3 components, a device description is needed (XDD) for the POWERLINK Master (MN) development system (e.g. B&R Automation Studio). Due to the ongoing development process of the device firmware, it might be possible that newer device description files contain additional attributes, parameters, new supported services, features, etc.

**Each device type has its own device description file:**

- ServoOne Single Axis Controller
- ServoOne Single Axis Controller Hydraulics
- ServoOne CM Multi Axis Controller
- KeDrive D3-DA Multi Axis Controller
- KeDrive D3-DP Active Power Supply Unit
- KeDrive D3-EM Energy Manager for Capacity Loading

The firmware version has to match with the XDD file version like described in the following tables:

## XDD Version History ServoOne:

XDD-File	Since SO/ - FW-Version	Since SO-FS -FW-Version	Added Feature(s)
0x16_ServoOne_03.xdd	4.15-02	not available	<ul style="list-style-type: none"> <li>• Basic Release</li> <li>• Correction of some Objects / Sub-Indices</li> <li>• Correction of NMTCycleTimeMax</li> </ul>
0x16_ServoOne_03.xdd 0x16_ServoOne_04.xdd	4.25-14	not available	<ul style="list-style-type: none"> <li>• Basic Release</li> </ul>
0x16_ServoOne_05.xdd	4.30-13	4.30-12	<ul style="list-style-type: none"> <li>• Support for ServoOne-FS</li> <li>• Store/Restore Objects 0x1010 and 0x1011 removed</li> <li>• KEBA labeling</li> </ul>
0x16_ServoOne_Hyd.xdd	274.35-00	not available	<ul style="list-style-type: none"> <li>• Based on 0x16_ServoOne_05.xdd</li> <li>• Parameters for hydraulic added in file</li> <li>• Only for hydraulic firmware!</li> </ul>
0x16_ServoOne_Hyd.xdd (26.06.2023)	274.35-12	not available	<ul style="list-style-type: none"> <li>• Based on 0x16_ServoOne_06.xdd</li> <li>• Multiplex feature implemented</li> <li>• Product Icons + Picture added</li> <li>• Only for hydraulic firmware!</li> </ul>
0x16_ServoOne_07_Hyd.xdd	274.35-12	not available	<ul style="list-style-type: none"> <li>• ECAM process data objects included</li> <li>• Updated naming and product data</li> <li>• Merge with 0x16_ServoOne_Hyd.xdd (26.06.2023)</li> </ul>
0x16_ServoOne_06.xdd	04.35-12	04.35-12	<ul style="list-style-type: none"> <li>• Multiplex feature implemented</li> <li>• Product Icons + Picture added</li> </ul>
0x16_ServoOne_07.xdd	04.35-12	04.35-12	<ul style="list-style-type: none"> <li>• ECAM process data objects included</li> <li>• Updated naming and product data</li> <li>• Merge with 0x16_ServoOne_06.xdd</li> </ul>

## XDD Version History ServoOne CM / KeDrive D3-DA:

XDD-File	Since FW-Version	Added Feature(s) in XDD
KEBA_SOxx.xdd	302.50-05 303.10-03	<ul style="list-style-type: none"> <li>• Basic Release</li> <li>• Contains all objects for a triple axis controller with 0x800h offset per axis</li> <li>• Implementation according to ETG Multi Device Profile (MDP)</li> <li>• For ServoOne CM vendor</li> </ul>
KEBA_D3-DA.xdd (27.09.2021)	303.15-04	<ul style="list-style-type: none"> <li>• For KeDrive D3-DA</li> <li>• Change to KEBA Vendor / Product Code</li> <li>• Some text descriptions updated</li> </ul>
KEBA_D3-DA.xdd (13.07.2023)	303.25-00	<ul style="list-style-type: none"> <li>• Icon link and product picture link added</li> </ul>
KEBA_D3-DA.xdd (17.04.2023)	304.00.01	<ul style="list-style-type: none"> <li>• Object 0x211C for virtual homing inputs added</li> </ul>
0xCEBA_D3-DA3xx_N52_N90.xdd (26.07.2023, V01.00)	304.00.01 Multiplexing > 304.00.01	<ul style="list-style-type: none"> <li>• Objects for Multiplexing added (only NetX90)</li> <li>• Merge with KEBA_D3-DA.xdd (from 17.04.2023)</li> </ul>
0xCEBA_D3-DA3xx_N52_N90.xdd (06.12.2023, V01.40)	304.01.02	<ul style="list-style-type: none"> <li>• Axis 1..3: Objects <i>ERR_ActCode</i>, <i>MPRO_BRK_Lock</i>, <i>MPRO_DRVCOM_Controlword</i> added for PDO usage</li> <li>• ECAM objects added for PDO usage</li> <li>• PDO Cross Communication Objects added</li> </ul>
0xCEBA_D3-DA.xdd (05.06.2024, V01.50)	304.01.02	<ul style="list-style-type: none"> <li>• Renamed file</li> </ul>
0xCEBA_D3-DA.xdd (18.07.2024, V01.60)	304.03.00	<ul style="list-style-type: none"> <li>• Objects 0x1403 and 0x1603 added for 3rd possible PDO Cross-Communication channel</li> </ul>
0xCEBA_D3-DA.xdd (09.10.2024, V01.70)	304.03.00	<ul style="list-style-type: none"> <li>• Added objects for FDL UINT16 Memory Parameters 0x24C4[1..5]</li> </ul>
0xCEBA_D3-DA.xdd (23.10.2024, V01.80)	304.03.00	<ul style="list-style-type: none"> <li>• Added objects for ECAM Functionality (Controlword2 for PM3 per axis)</li> </ul>
0xCEBA_D3-DA.xdd (20.01.2025, V01.90)	304.04.xx	<ul style="list-style-type: none"> <li>• Added further FDL objects: 0x24C6[0..5], 0x24C8[0..5], [0..5], 0x24ED[0..29], 0x24EE[0..29], 0x2500[0..19], 0x2501[0..19]</li> </ul>

0xCEBA_D3-DA.xdd (24.03.2025, V02.00)	304.04.xx	<ul style="list-style-type: none"> <li>Added objects for Remote Gantry: 0x2391[0..4] Gantry Remote Data</li> </ul>
0xCEBA_D3-DA.xdd (28.05.2025, V02.10)	304.04.xx	<ul style="list-style-type: none"> <li>Added objects for Hydraulics: 0x2C81[0] HYD_nRefPump, 0x2C88[0] HYD_ActiveDataSet, 0x2C92[0] HYD_PressureRef, 0x2C93[0] HYD_PressureAct, 0x2C94[0] HYD_SpeedRef, 0x2C99[0] HYD_SpeedMin</li> </ul>
0xCEBA_D3-DA.xdd (08.08.2025, V02.20)	304.04.02	<ul style="list-style-type: none"> <li>Added object for torque demand: 0x6074[0] TorqueDemand Axis 1, 0x6874[0] TorqueDemand Axis 2, 0x7074[0] TorqueDemand Axis 3</li> </ul>
0xCEBA_D3-DA.xdd (01.09.2025, V02.30)	304.04.02	<ul style="list-style-type: none"> <li>Added object for DRVCOM status: 0x28CA[0] MPRO_DRVCOM_Statusword Axis 1, 0x30CA[0] MPRO_DRVCOM_Statusword Axis 2, 0x38CA[0] MPRO_DRVCOM_Statusword Axis 3</li> </ul>
0xCEBA_D3-DA.xdd (10.10.2025, V02.31)	304.04.02	<ul style="list-style-type: none"> <li>Removed attribute "defaultValue" for all FDL (array) objects</li> </ul>

## XDD Version History KeDrive D3-DP 310 (Active Supply):

XDD-File	Since FW-Version	Added Feature(s) in XDD
0xCEBA_D3-DP310.xdd (20.10.2023, V01.00)	304.01.02	<ul style="list-style-type: none"> <li>• First managed XDD for N52 + N90 EPL device</li> <li>• Objects for Multiplexing added (only N90)</li> <li>• Based on standard XDD D3-DA with collection of matching objects for power supply purpose</li> </ul>
0xCEBA_D3-DP310.xdd (05.06.2024, V01.10)	304.01.02	<ul style="list-style-type: none"> <li>• Renamed file</li> </ul>
0xCEBA_D3-DA.xdd (18.07.2024, V01.20)	304.03.01	<ul style="list-style-type: none"> <li>• Objects added for having up to 3x possible PDO Cross-Communication channels (optional)</li> </ul>

## XDD Version History KeDrive D3-EM:

XDD-File	Since FW-Version	Added Feature(s) in XDD
0xCEBA_D3-EM.xdd (20.10.2023, V01.00)	304.01.02	<ul style="list-style-type: none"> <li>• First managed XDD for N52 + N90 EPL device</li> <li>• Objects for Multiplexing added (only N90)</li> <li>• Based on standard XDD D3-DA with collection of matching objects for power supply purpose</li> </ul>
0xCEBA_D3-DA.xdd (18.07.2024, V01.20)	304.03.01	<ul style="list-style-type: none"> <li>• Objects added for having up to 3x possible PDO Cross-Communication channels (optional)</li> </ul>