

## Software History

### Industrial Ethernet Xvi

Version	Date	History
5.30	23.12.25	<ul style="list-style-type: none"> <li>- Lower minimal PLC cycle time supported: EtherCAT: 100µs Powerlink: 400µs Profinet IRT: 500µs</li> <li>- Support for more PLC cycle times: 133µs, 125µs, 150µs, 275µs etc. This requires at least XENAX Firmware V8.16.</li> <li>- Added parameters for torque sensor: SQST, FTPST.</li> <li>- Resolved an issue where Profinet T910 and T911 telegrams contained only zero values due to a bug introduced in version 5.24.</li> </ul>
5.28	30.09.25	<ul style="list-style-type: none"> <li>- Added parameters: ENCMS, ENCML, ENCMD.</li> <li>- Profidrive parameter 2000 is not reset after power cycle. This requires at least XENAX Firmware V8.12.</li> <li>- SINUMERIK Error 50 fixed when enabling power stage after axis was moved by hand.</li> <li>- Profinet switching supplementary data of Telegram possible without power cycle.</li> </ul>
5.26	11.08.25	<ul style="list-style-type: none"> <li>- Added parameters: FCSP, ENCCD, ENCPO</li> </ul>
5.24	02.07.25	<ul style="list-style-type: none"> <li>- Profinet Telegram 701 partially supported.</li> <li>- Profinet Telegram 5 fixed Error 50/72 after reference drive with Sinumerik and absolute encoder axis.</li> <li>- Added parameters for Fast trigger: FBCM, FTPA, FTPR, FTCD, FTCE, FTCH, FTCM, FTID, FTILB, FTIUB, FTOE, FTOG, FTOM, FTOPD, FTOPW, FTOI, FTPL.</li> </ul>
5.22	25.04.25	<ul style="list-style-type: none"> <li>- Powerlink support added</li> <li>- EtherCAT EoE enabled by default</li> </ul>
5.20	27.01.25	<ul style="list-style-type: none"> <li>- EtherNet/IP: CIP Sync support added.</li> <li>- Profinet telegram 5: Value changes of target position PDO are now transmitted to the servo controller in Profidrive state SwitchOnInhibited as well. This is used for gantry coupled mode.</li> <li>- Profinet telegram 9: Value changes of acceleration PDO are now also transmitted to the servo controller during an ongoing drive. This is used for stopping an ongoing drive with a different acceleration than it was started.</li> <li>- Added parameters: SOD, GCME, GBCM and TTGS.</li> <li>- Fixed spurious controller noise and Error 77 during intensive SDO communication.</li> </ul>
5.18	08.10.24	<ul style="list-style-type: none"> <li>- Profinet TIA Protal reference procedure improved. Functionality of JS_MC_Power split up into MC_Power and JS_MC_Reference. Old</li> </ul>

		<p>JS_MC_Power block only works with backwards compatibility mode enabled (PMHSD1). This feature requires at least Xenax Firmware V8.02.</p> <ul style="list-style-type: none"> <li>- Added parameters: FEIP, FEGW, FENM, FEMAC and IEMAC.</li> </ul>
5.16	17.05.24	<ul style="list-style-type: none"> <li>- EtherCAT: Support for Omron PLCs with Sysmac Studio.</li> <li>- EtherCAT: Support for Codesys PLCs</li> <li>- EtherNet/IP: Setting a fixed IP address with RsLinux works with the first request. Previously, IP address and subnet mask could not be changed in a single request.</li> </ul>
5.14	06.02.24	<ul style="list-style-type: none"> <li>- EtherNet/IP cyclic synchronous position mode supported with configurable RPI down to 1ms.</li> <li>- Added parameter: EGMSO, VMTAE, ENAR, CTAB, APSN, APSD, LARES and LAST.</li> </ul>
5.12	21.12.23	<ul style="list-style-type: none"> <li>- EtherNet/IP cyclic synchronous position mode support with 4ms RPI.</li> <li>- Fixed a bug where EtherNet/IP stack lost its IP-Address during Firmware update.</li> <li>- Profinet Telegram 910 and 911 supported for backwards compatibility with Versions below 5.00.</li> <li>- Communication speed improved between XENAX and Industrial Ethernet.</li> </ul>
5.10	22.09.23	<ul style="list-style-type: none"> <li>- EtherNet/IP profile position mode support.</li> <li>- Profinet Telegram 9 data consistency for drive start command and drive parameter like position and speed improved.</li> <li>- Removed space at the end of pdo names in eds</li> </ul>
5.06	31.03.23	<ul style="list-style-type: none"> <li>- Initial version with EtherCAT, Profinet and TCP/IP support.</li> </ul>