CODESYS Virtual Safe Control SL: Version 4.23.0.0 with ARM64

Version 4.23.0.0 of CODESYS Virtual Safe Control SL will be released in late October 2026. The software-based safety controller executes SIL3 safety applications and runs as a container alongside a functional CODESYS controller on standard hardware. Version 4.23.0.0 supports both x64 and ARM64. Since CODESYS Virtual Control SL already runs on ARM64, the functional and safety controllers share an ARM64 host. A safety application retains its certification when switching between x64 and ARM64.

The CODESYS Group has optimized the coded channel, which executes the safety application alongside the original using Coded Processing, for 64-bit architectures: It now operates twice as fast as before. The controller connects safe inputs and outputs via PROFIsafe (F-Host) and FSoE. The native safety runtime systems without a container engine are available as a separate product under the name CODESYS Safe Control SL.

In Hall 7, Booth 677, the CODESYS Group is showcasing a prototype of the Local Time Provider, which monitors the time base without the external hardware previously required. It is designed to simplify safety control by eliminating the need to set up an external time source, increase flexibility by removing the requirement for users to verify the independence of a second time source, and improve stability by no longer relying on a network for time synchronization. The Local Time Provider is scheduled for release in the first quarter of 2027.

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