CODESYS Development System MCP Server: Online operations for AI

The CODESYS Group plans to release version 1.2.0.0 of the CODESYS Development System MCP Server in the fourth quarter of 2026. The add-on connects AI models to the CODESYS Development System 3 via the open Model Context Protocol (MCP). The AI reads and writes in the open project, compiles it using the CODESYS compiler, evaluates the messages, and corrects the code until the compiler no longer reports any errors. In the current version 1.1.0.0, the AI generates and modifies code in Structured Text and can read objects in graphical languages.

Version 1.2.0.0 is expected to add online operations: The AI will then be able to log in to a controller, download the application, start and stop it, and read, write, and force variables. In addition to development, it will then also provide valuable support during commissioning and diagnostics. Visualization support is planned for the first quarter of 2027, and fieldbus support for 2027.

Users determine which tools the AI is allowed to access. The MCP Server communicates with both cloud-based AIs and local LLMs. It is licensed through the CODESYS Professional Developer Edition and installed via the CODESYS Installer. In Hall 7, Booth 677, the CODESYS Group will demonstrate possible online operations. The current state of development will be showcased, including how the AI creates a visualization and handles I/O mapping.

Caption: An AI client and the CODESYS Development System 3 side by side.

Press contact:

Dipl.-Ing. (FH) Roland Wagner
CODESYS GmbH - A member of the CODESYS Group
Memminger Str. 151
87439 Kempten
Germany
Phone: +49-831-54031-17
E-mail: r.wagner@codesys.com
Internet: www.codesys.com



