



Data Sheet CODESYS Development System MCP Server

The CODESYS Development System MCP Server enables the connection between AI language models and the CODESYS development environment.

The CODESYS Development System MCP Server is part of the tool bundle CODESYS Professional Developer Edition.

Product description

The CODESYS Development System MCP Server enables AI language models to communicate with the CODESYS development environment via the open Model Context Protocol. The add-on provides various tools and resources that the AI language model can call and use to implement tasks set by the user in natural language within the CODESYS development environment. The CODESYS Development System MCP Server comprises fine-tuned tools for searching and reading project contents, for creating and modifying POU's, as well as for error checking.

The use of the CODESYS Development System MCP Server can help in various use cases. For example, the AI language model can be instructed to explain large amounts of existing applications in a comprehensible way, making them accessible to developers who are not familiar with the source code.

Furthermore, AI language models can also modify applications, for example to fix bugs or implement new functionality.

Tools and resources

After configuring the MCP client and starting the MCP server in the CODESYS development environment, various tools and resources are available to the AI language model. Excerpt from the list:

• <code>browse_project_tree</code>	Displays the project tree or a specific subtree.
• <code>get_structured_text_content</code>	Returns the ST source code of an object.
• <code>replacte_text_in_structured_text</code>	Performs targeted text replacements in an ST object.
• <code>get_device_and_io_configuration</code>	Returns the device tree and the IO configuration.
• <code>get_library_documentation</code>	Returns a compact overview of a library.
• <code>check_for_errors</code>	Checks the project for errors and returns diagnostic messages.

The complete set of tools, as well as the provided resources, are documented in detail in the CODESYS Online Help.

Note

The CODESYS Development System MCP Server can only be enabled in a single CODESYS development environment at the same time.

General information

Supplier:

CODESYS GmbH
 Memminger Strasse 151
 87439 Kempten
 Germany

Support:

Technical support is not included with this product. To receive technical support, please purchase a CODESYS Support Ticket.

<https://support.codesys.com>

Item:

CODESYS Development System MCP Server

Item number:

2101000023

Sales/Source of supply:

CODESYS Store
<https://store.codesys.com>

Included in delivery:

- Package for the CODESYS Development System including license agreement and online help
- License key

System requirements and restrictions

Programming System	CODESYS Development System V3.5.22.1 or higher
Runtime System	-
Supported Platforms/ Devices	-
Additional Requirements	Subscription of the CODESYS Professional Developer Edition.
Restrictions	-
Licensing	see CODESYS Professional Developer Edition
Required accessories	Optional: CODESYS Key

Detailed compatibility information

Version	Programming System
1.0.0.0	3.5.22.10 - newest

Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.

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