



CODESYS Automation Server

With the CODESYS Automation Server, you can manage, monitor, and control your automation landscape remotely. Update, debug, and maintain your CODESYS projects and applications at any location—all via secure, centralized access to all your connected devices and associated CODESYS projects.

Log in with your CODESYS Store account to set up your access to the CODESYS Automation Server.

Product description

Basics

The CODESYS Automation Server is a cloud-based Industry 4.0 platform designed for the centralized management, monitoring, and maintenance of automation landscapes. It enables efficient control of the entire lifecycle of machines and plants — from commissioning and maintenance to data analysis. A key feature is the extensive remote access to the connected control systems.

Access

You can create your personal CODESYS Automation Server via the CODESYS Store. This will also give you an administrator account for your CODESYS Automation Server. You can use this to create additional users, manage permissions, and make full use of the CODESYS Automation Server. You can also cancel your CODESYS Automation Server via the CODESYS Store on a monthly basis. Upon cancellation, all data stored on your CODESYS Automation Server will be permanently deleted.

Infrastructure

The CODESYS Edge Gateway enables communication between the CODESYS Automation Server and connected PLCs. It also serves as a remote CODESYS Gateway, allowing the CODESYS Development System to connect to remote PLCs. It can be installed on dedicated hardware or directly on a PLC – on both Linux and Windows. The CODESYS Edge Gateway encapsulates the PLC world from the outside and ensures secure communication via a TLS connection to the CODESYS Automation Server. The CODESYS Automation Server Connector is an add-on for the CODESYS Development System that enables projects to be synchronized with the CODESYS Automation Server. Simple merge mechanisms allow multiple application engineers to work on a project together and ensure audit-proof storage of the current progress.

Main features

Centralized controller management

Monitor all connected devices, including their diagnostic and additional information. Plan maintenance and analyze data efficiently via a single platform.

Remote access

Access remote PLCs securely and easily, e.g., via remote login via the CODESYS Development System or via a browser to remote WebVisus and the device log. All without additional hardware or complex VPN solutions.

Application and project management

Manage your CODESYS projects and applications centrally, roll out applications simultaneously on multiple PLCs, and synchronize application updates between your CODESYS Development System and the CODESYS Automation Server.

Certificate management and CSRs

Keep track of the digital certificates of all connected PLCs in a central location, generate new certificates, or generate certificate signing requests. This allows you to efficiently protect your systems, secure data, and prevent manipulation.

User and rights management

Keep track of roles, access rights, and user accounts to ensure that only authorized persons have the required access.

License management

Monitor and extend the licenses of your devices centrally and flexibly, regardless of their location.

Notifications

Receive automatic notifications of potential problems with your devices to minimize downtime and optimize workflows.

Data monitoring and analysis

Visualize, record, and analyze data intuitively to make well-informed decisions.

Ticket system

Simplify everyday tasks such as device replacement with preconfigured tickets that can be used without programming knowledge.

Highest security standards

Benefit from features such as two-factor authentication, TLS-encrypted communication, and detailed rights management.

Additional information

For first steps, please refer to the [CODESYS Online Help](#). Further details on the features of the CODESYS Automation Server can be found on [our website](#). Details on displaying, recording, and analyzing data are described in the [online help](#).

Scope of services

Basic access to the CODESYS Automation Server is free of charge. The access to your tenant is automatically renewed. You can cancel it at any time. The following services are included in the basic access:

PLC management	2 PLCs
Cloud storage	100 GB
Traffic	100 GB per month
Data Analyzer	EVAL Project (10 data points) (10 recordings per hour)
Support	1 Support ticket

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Options

Pay-per-Use

The use of paid services of the CODESYS Automation Server is billed monthly on a pay-per-use basis. This avoids high investment costs and cost transparency at all times. The costs of the individual services can be controlled by means of adjustable restrictions.

Platform	Amazon Web Services
Region (AWS Regions)	EU-Central 1
Isolation level	Tenant separation on the application level
Availability	Operation on three Availability Zones
Controller	2 Controllers per month included
Traffic	100GB per month included
Storage	100GB

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 Automation Server

Item number:

2315000005

Sales/Source of supply:

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

Included in delivery:

see scope of services

System requirements and restrictions

Programming System	CODESYS Development System Version 3.5.15.0 or higher
Runtime System	CODESYS Control V3.5.8.0 or higher
	Additional requirements for the controller:
	<ul style="list-style-type: none"> • File system required • Unique controller name within a controller network; alternatively addressing via IP address/host name. • Unique serial number; if no serial number is available, a writable persistent configuration file is required.
	CODESYS Edge Gateway V3.5.16.0 or higher
	CODESYS Gateway V3.5.10.0 or higher
Supported Platforms/ Devices	

Cloud Service Provider

- Amazon Web Services

*Browser*¹

current versions of:

- Firefox
- Safari
- Chrome
- Edge

Additional Requirements	<ul style="list-style-type: none"> • CODESYS Edge Gateway V3.5.16.0 • CODESYS Automation Server Connector V1.23.0.0¹
Restrictions	-
Licensing	-
Required Accessories	-

¹ These are the oldest versions we work and test with. It is possible that older versions that are not in this list are supported. The scope of functions could be limited.

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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