



CODESYS Automation Server

The CODESYS Automation Server is a cloud-based platform for managing controller tasks.

In order to support CODESYS users in making their currently changing workday as trouble-free as possible, we are making the CODESYS Automation Server available free of charge until the end of 2020. The free use ends on 01.01.2021 for all existing accesses to the CODESYS Automation Server.

Product description

Until 31.12.2020 the CODESYS Automation Server can be used to its full extent free of charge. Afterwards the basic access remains free of charge. CAS-Services over the limits will be charged after a 30 days test period.

If you want to use the Automation Server beyond that, you don't have to do anything else. Your access will be extended automatically as long as you want to use it. You can cancel at any time and there will be no costs before the end of your free trial period. There is no complicated contract, no termination fees and no obligations. You can cancel online at any time around the clock.

Scope of services

Basic access to the CODESYS Automation Server is free. Included in the basic access are the following services:

PLC Management	2 PLCs ¹
Cloud storage	100 GB ¹
Traffic	100 GB per month ¹
	EVAL Project ¹
Data Analyzer	(10 data points) (10 record per hour)
Support	1 Support-Ticket

¹ These limits will be lifted by 31.12.2020.

Use cases

The CODESYS Automation Server covers two main use cases:

PLC management

The PLC Management features are designed for machine and plant operation on site (e.g. in production). Different views provide an overview of the status of all controls. Applications can be rolled out and parameterized by means of mass operations. The CODESYS Automation Server offers important tools such as the integrated ticket system for commissioning and maintenance.

Engineering

The engineering features of the CODESYS Automation Server are aimed in particular at developers and application engineers. Thus, projects can be synchronized with the CODESYS Automation Server via an add-on of the CODESYS Development System and thus enable cooperative work on projects.

Functions

Infrastructure

The CODESYS Edge Gateway enables communication with one or more controllers. It can be installed on dedicated hardware or directly on a controller. The CODESYS Edge Gateway encapsulates the control world externally and ensures secure communication via TLS connection to the CODESYS Automation Server.

Access

An access is required in order to use the CODESYS Automation Server. Accesses are created and managed via the CODESYS Store. The result of creating an access is administrator access to the CODESYS Automation Server, which is used for central administration of all data and user rules within the CODESYS Automation Server. An access can also be terminated via the CODESYS Store and can be done monthly. Upon termination, all stored data within the access on the CODESYS Automation Server will be permanently deleted.

PLC management

PLC management enables the management of control tasks during the entire life cycle of a controller (application development, commissioning, operation, maintenance). The "PLC Management" product option is available for all controllers registered in the CODESYS Automation Server. For these, a digital twin is created in the cloud to correctly assign orders and messages (status, alarms, etc.). Available functions:

Views of the controller landscape

- List view

In addition, information is displayed on the status, boot application, and application parameters.

Controller-specific functions

- Roll-out of applications on many controllers
- Linking applications to controllers
- Parameterization of generic applications
- Backup/Restore of the application software
- Application exchange
- Display of the web visualization

Ticket system

The ticket system optimizes the workflow between application engineer and service technician in four steps:

1. The application engineer creates a valid order (ticket) in the CODESYS Automation Server to roll out a specific application on a specific device.
2. dispatch of the ticket via the CODESYS Automation Server (e.g. by e-mail).
3. installation of a new device or replacement of a defective one by a service technician on site.
4. redemption of the ticket (e.g. scanning of the serial number) by the service technician on the device.

No programming knowledge is required for the exchange. The mechanism decouples application development and machine service in terms of time, space and function, thus reducing the risk of operating errors.

Engineering

CODESYS Automation Server connector

The CODESYS Automation Server Connector is an Add-on for the CODESYS Development System that enables the synchronization of projects on the CODESYS Automation Server. Simple merge mechanisms allow several application engineers to work together on a project and secure the last work status in a revision-proof manner.

First steps can be found in the [Online Help](#).

Further information on the features of the CODESYS Automation Server can be found at www.automation-server.com.

Legal Issues

By using the CODESYS Automation Server you agree to the valid [terms of use](#).

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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	5 Controllers per month included
Traffic	100GB per month included
Memory	100GB per month included

General information

Vendor:

CODESYS GmbH
 Memminger Strasse 151
 87439 Kempten
 Germany

Support:

<https://support.codesys.com>

Item:

CODESYS Automation Server

Item number:

2315000005

Sales:

CODESYS Store

<https://store.codesys.com>

Included in delivery:

Access to CODESYS Automation Server includes:

Access	first four weeks are free of charge ¹
Controllers	5 controllers (PLC Management) included ¹
Storage	100 GB included ¹
Traffic	100 GB per month included ¹

¹ These limits will be lifted by 31.12.2020.

System requirements and restrictions

Programming System	CODESYS Development System Version 3.5.11.0 or higher CODESYS Control V3.5.8.0 or higher Additional requirements for the controller:
Runtime System	<ul style="list-style-type: none"> File system required CODESYS Edge Gateway V3.5.16.0 or higher CODESYS Gateway V3.5.10.0 or higher Cloud Service Provider <ul style="list-style-type: none"> Amazon Web Services
Supported Platforms/ Devices	Browser ¹ <ul style="list-style-type: none"> Firefox (from 60.5.2esr) Chrome (from 73.0.3683.103) Microsoft Edge (from 44.17763.1.0) Chromium (from 73.0.3683.86)
Additional Requirements	<ul style="list-style-type: none"> CODESYS Edge Gateway V3.5.16.0 CODESYS Automation Server Connector V1.10.0.0
Restrictions	-
Licensing	-
Required Accessories	-

¹ These are the oldest versions we work and test with. It is possible that older versions of these browsers or alternative browsers that are not in this list are supported.

Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact sales@codesys.com.

Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the

current online version of this document applies.