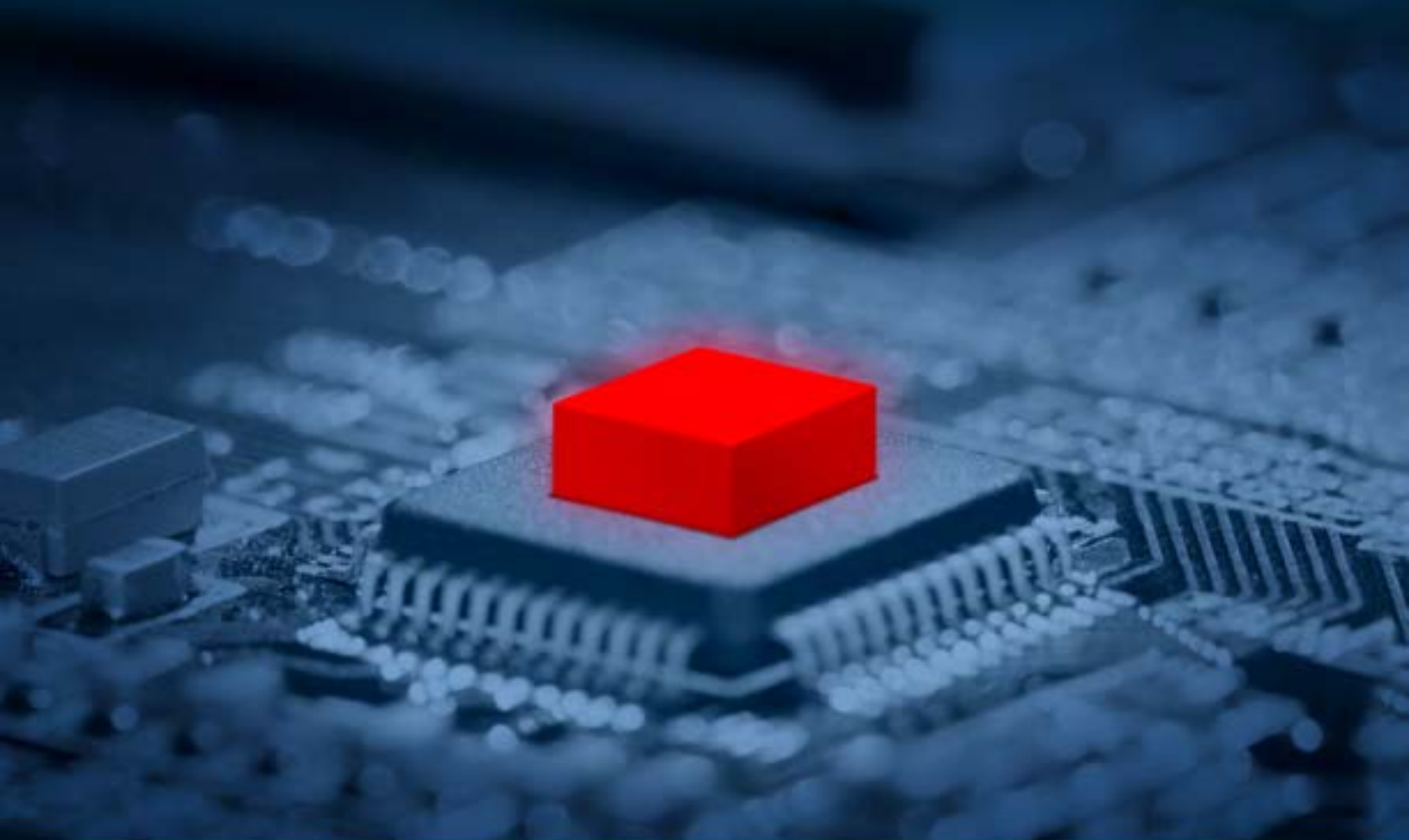




CODESYS Corporation

CODESYS®

is the global market-leader of
manufacturer-independent
IEC 61131-3 Automation Software



AUTOMATION BY



CODESYS SOFTWARE SUITE IS PERFECTLY SUITED FOR EVERY INDUSTRY

CODESYS is the global market leader of manufacturer-independent IEC 61131-3 automation software with over 5 million device licenses sold worldwide. More than 500 control system manufacturers and tens of thousands of companies worldwide use CODESYS products.

The CODESYS Development System is the basis of a comprehensive suite that covers the entire programming side of automation, including the Industrial Internet of Things (IIoT), communication, Soft PLC, motion, drives, CNC, robotics, redundancy, and HMI.

The CODESYS software suite is covering the full range of automation control systems with a complete communication infrastructure from the field to the control level. CODESYS integrates seamlessly with existing installations and new technologies.

POWERED CODESYS

BENEFITS

CODESYS is a comprehensive and flexible system.

The integrated safety (DIN IEC 61508) and redundancy functions in CODESYS are ideal for high availability and safety-critical applications.

Automation engineers are provided with extensive runtime diagnostics information and can safely update the application without stopping it – securely from all over the world.

CODESYS supports important communication protocols such as OPC UA, MQTT, ETHERNET-IP, PROFINET or Modbus with integrated configuration tools.

Automation control specialists can choose from a vast pool of different control devices, from standard hardware like panel PCs to full custom hardware.

CODESYS



THE LEADING SOFTWARE PLATFORM FOR IEC 61131-3 COMPLIANT PROJECT ENGINEERING

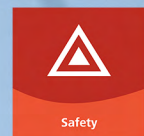
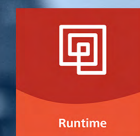
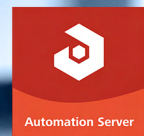
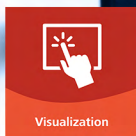
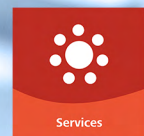
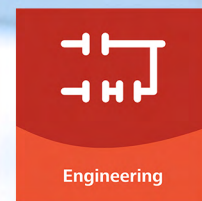
There are many reasons to choose CODESYS. It is a powerful manufacturer-independent IEC 61131-3 development environment with numerous user-friendly functions for the programming and configuration of automation projects.

The CODESYS Development System contains fully integrated backend functions, such as compilers, debuggers, a simulator and variable trace. Thus, control applications can be developed, tested and commissioned without any additional tools.

The latest version of CODESYS can be downloaded free of charge from our CODESYS North America Store: <https://us.store.codesys.com/>

The CODESYS Development System combines classic programming of controller applications with professional software development for Industry 4.0 / Industrial Internet of Things (IIoT).

More than 500 device manufacturers rely on CODESYS, in addition to about 100,000 end-users from a wide variety of industries: process, energy, factory, mobile, embedded



DEVELOPMENT SYSTEM



and building automation. This makes CODESYS the most used manufacturer-independent development environment employed around the world in millions of machines and plants.

All components for process automation applications are integrated directly in CODESYS, including editors for all IEC 61131-3 compliant implementation languages, compilers for native machine codes, a powerful debugger, and a clear project configuration. Add-ons can further supplement these components for efficient application development.

The engineering platform is the basis of the CODESYS product families such as visualization, motion control, fieldbus configuration, and safety programming.

ADVANTAGES SOFTWARE

The use of CODESYS for developing control applications offers many advantages for device manufacturers and machine builders as well as for end-users.

PERFORMANCE IMPROVEMENT

CODESYS customers enjoy regular updates and upgrades free of charge. Upgrades enhance the overall functionality, security and performance of the software and extends its lifecycle as well.

SUPPORT

With the maintenance of software services, you can keep a tab on your software expenditure. Most programs cover users for a year and include support service thereby reducing an organization's investment in IT greatly.

HARDWARE AND OPERATING SYSTEM INDEPENDENCE

A hardware-independent integration offers sustainability for already deployed applications, and the possibility to start developments before having the hardware.

TIME SAVINGS

The option to use Object Oriented Programming (OOP) designs facilitates modular and highly reusable code for control applications and significantly reduce development and maintenance time.

CODESYS SUITE



READY TO USE PROTOCOLS AND COMMUNICATION

A large choice of communication protocols ready to use are embedded in the CODESYS Runtime.

DEVELOPMENT SUPPORT AND TOOLS

For efficient developments and diagnostics CODESYS has integrated analysis tests, simulations, and offline tests.

HIGHEST POSSIBLE FLEXIBILITY

Programmers benefit from the simultaneous use of six common programming languages (ST, SFC, LD, FBD, CFC, IL) and the possibility to integrate C or Python.

AVAILABILITY OF A WIDE RANGE OF TOOLS

CODESYS includes efficient configuration, commissioning, and debugging tools to assist end-users throughout the development of their projects.

ONLINE CHANGES

CODESYS includes the possibility of changing the program without effecting the process.

ERGONOMICS

A simple and intuitive environment for programming and configuration of applications is embedded in CODESYS.

AUTOMATION

The Industry 4.0 platform for

WHAT DOES THE FUTURE OF AUTOMATION LOOKS LIKE?

New technologies offer enormous advantages for a connected automation world. Never it has been easier to manage and maintain globally distributed control devices so quickly and comprehensively.

As the possibilities increase, so do the requirements. Whether we operate machines and plants, develop automation solutions, or manufacture control technology, the CODESYS AUTOMATION SERVER meets already requirements of tomorrows automation. As a future-oriented Industry 4.0 platform, the CODESYS AUTOMATION SERVER offers indispensable advantages for the automation of tomorrow:

- industry-independent use through individual configuration options
- clear separation of IT and OT networks thanks to the CODESYS EDGE GATEWAY
- convenient and device-independent operation via browser
- set-up and connections of devices and projects in only a few minutes
- perfect compatibility with other CODESYS products



SERVER

- Device management
- Remote HMI
- Data analysis

THE CODESYS AUTOMATION SERVER MEETS THESE REQUIREMENTS:

- Keeping track of a large number of devices in the field
- Securely accessing devices in use anytime and from anywhere
- Developing automation projects in distributed teams
- Managing access levels and users authorizations
- Collect, display, and analyze data
- Highest security standards
- Data privacy



CODESYS



CODESYS

THE COMPLETE SOFTWARE SIDE OF AUTOMATION

CODESYS offers the complete functionality of a modern manufacturer-independent IEC 61131-3 development tool. CODESYS integrates HMI visualization, connections to all standard fieldbus systems, motion control, SIL 2 and SIL 3 safety solutions, communication interfaces, and solutions for Industry 4.0 including a convenient and secure remote management of control landscapes.

TRAINING

LEARN CODESYS DIRECTLY FROM THE MANUFACTURER OF IEC 61131-3

Whether you are a beginner or an advanced user, CODESYS Corporation has the right training to take your knowledge to the next level.

Our courses are instructor-led and alternate between lectures and hand-on exercises. Learn tips, tricks and best practices compiled from many years of experience.

- CODESYS V3 Essentials Training
- CODESYS V3 Intensive Training
- Transitioning from Rockwell to CODESYS
- Transitioning from Siemens to CODESYS
- CODESYS V3 Softmotion Training

If you prefer a private training course for your company team, please do not hesitate to contact us.



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