

Strong Protection against Reverse Engineering

The manufacturing industry demands the capability to prevent unauthorized imitation and counterfeiting of machinery and their controls in order to protect their investments. The answer to this demand is the successful partnership of software protection provider WIBU-SYSTEMS AG and CODESYS GmbH, the vendor of the PLC software CODESYS.



CodeMeter

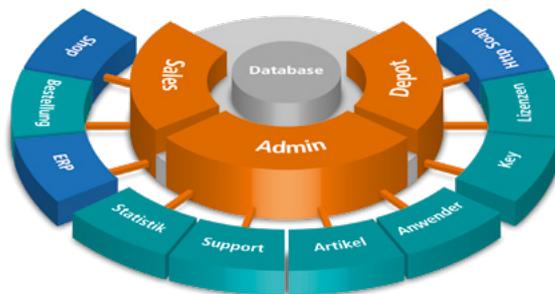
The CodeMeter® secure software licensing solution has been extended to address the needs of the industrial vertical: CodeMeter provides protection of intellectual property for embedded software and machinery controls, and also of production data, machine logs and service documents. The CodeMeter protection utilizes encryption with standard algorithms such as AES, Elliptic Curve, and RSA. The keys and the usage parameters are stored in the Product Items and Product Item Option of the CodeMeter License Container. They can be stored either in an encrypted and signed CmActLicense license file or in an extremely secure Smart Card based hardware device, the CmDongle. There is a variety of CmDongles for different needs such as USB, CF card, SD card or microSD card.

Encryption tools AxProtector and IxProtector

In addition to the secure storage of the license and the use of the protected software on the target system, CodeMeter provides tools for the developers to integrate the protection in their software. AxProtector is used for the encryption of the completed program code without any changes to the source code, and IxProtector which is used to provide encryption at the function level.

Secure software licensing for the production machines

The functionality of a production machine is determined by the software. Different features or functions can be licensed on a modular basis. The CodeMeter License Central supports the creation, management and delivery of licenses for these modules, and CodeMeter License Central easily integrates with the existing sales processes by connecting to the ERP, CRM, and ecommerce systems.



Flexible Usage

CodeMeter runs platform independent on Windows 32 bit, Windows 64 bit, Windows Mobile, macOS or Linux. CodeMeter also supports the platforms most often used in manufacturing such as Windows Embedded, Windows CE, OSADL Real Time Linux, VxWorks, and the SoftSPS system CODESYS. This support includes the required runtime software as well as the integration tools and protection utilities. CodeMeter provides the protection and flexible licensing required to support embedded software.

Integration of CodeMeter in CODESYS V3.5

Starting with CODESYS Version V3.5, CodeMeter technology is completely integrated into the CODESYS development environment and is available as CODESYS Security. CODESYS Security uses the CodeMeter protection hardware CmDongles as well as the software-based CmActLicenses to provide a high level of security and license flexibility to address the needs of modern automated manufacturing.

Protection against piracy and manipulation plus an array of novel monetization options

CODESYS V3.5 combined with CodeMeter technology allows manufacturers of automation solutions to effectively protect their IEC 61131-3 compliant solutions against product piracy and integrate their own licensing models into their applications. CODESYS Security is completely integrated in CODESYS and includes the following functions:

- Intellectual property protection
- Usage control
- License security
- Authentication

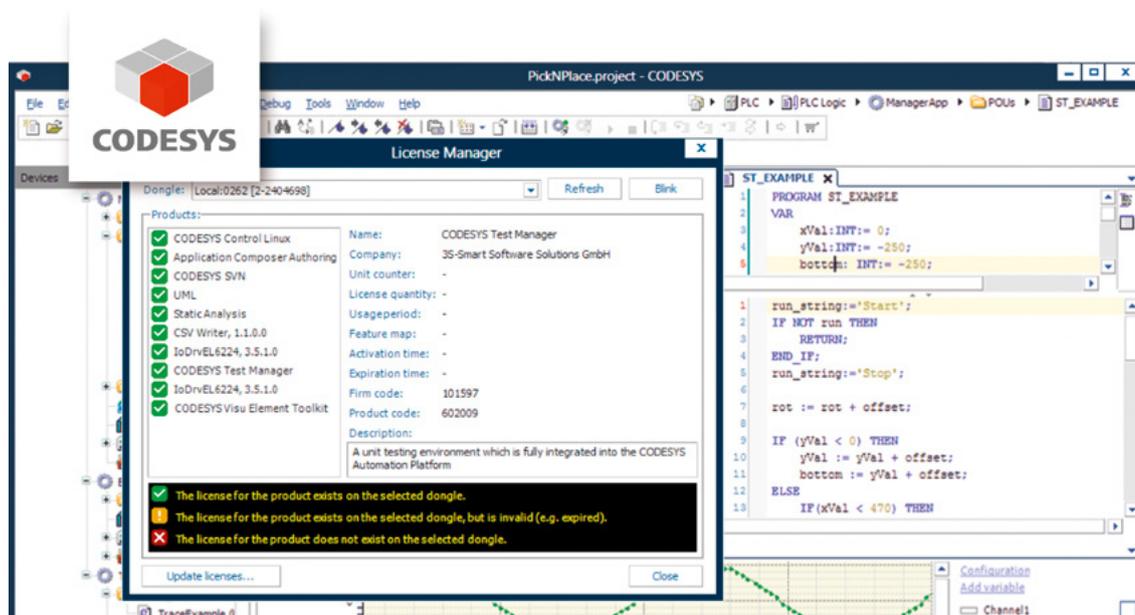
CODESYS Security helps intelligent device manufacturers protect valuable intellectual property against reverse engineering, unauthorized copying, and transfer to other PLCs.

The demand for an integrated protection system offering security for industrial machinery is fulfilled by additional

security functions on the PC as well as the PLC side.

The makers of industrial machines can introduce new business models for their PLCs, such as pay-per-use or features-on-demand concepts, and easily create and supply the required licenses for their customers. Software protection using CODESYS Security allows for effective license management and ease-of-use, as all information is accessible, anytime and anywhere.

A window to the CODESYS world is their web-based store, where customers can buy and download application modules and productivity tools for a development experience enhanced with the protection and licensing technology of CodeMeter, offered by CODESYS itself and third-party suppliers, such as device manufacturers, system partners, or other independent providers.



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