

EcoStruxure Control Engineering

# EcoStruxure™ Control Engineering

Software engineering techniques for your PLC and PAC applications for greater quality and productivity



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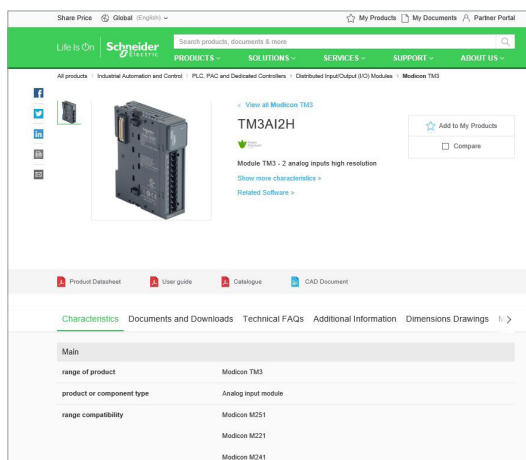
# Quick access to product information

## Get technical information about your product

**References**

**Modicon TM3 I/O expansion modules for Modicon controllers**  
Analog I/O modules

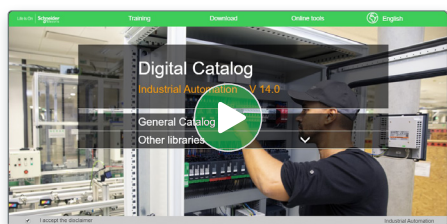
References	Modicon TM3 analog input modules	Input range	Resolution	Input terminal block (T)	Reference	Weight (kg)
2 voltage/current inputs	-10...+10 VDC 0...+10 VDC 0...20 mA / -20 mA	16 bits of	0.001	TM3AI201	0.150	
		16 bits of sign	0.002	TM3AI202	0.150	
4 voltage/current inputs	-10...+10 VDC 0...+10 VDC 0...20 mA / -20 mA	12 bits of	0.001	TM3AI401	0.200	
		11 bits of sign	0.002	TM3AI402	0.200	
4 voltage/current or temperature inputs (I, K, R, S, E, T, N, E, C)	-10...+10 VDC 0...+10 VDC 0...20 mA / -20 mA	16 bits of	0.001	TM3AI401	0.200	
		11 bits of sign	0.002	TM3AI402	0.200	
4 differential temperature inputs (I, K, R, S, E, T, N, E, C)	-10...+10 VDC 0...+10 VDC 0...20 mA / -20 mA	16 bits of	0.001	TM3AI401	0.200	
		11 bits of sign	0.002	TM3AI402	0.200	



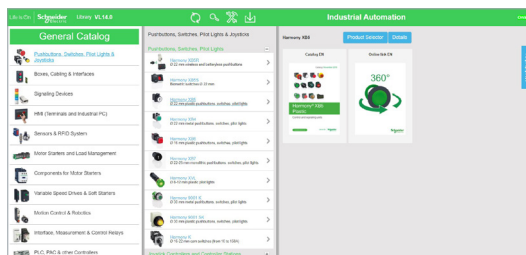
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- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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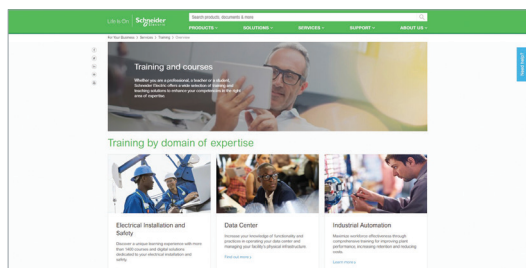


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# General contents

## EcoStruxure™ Control Engineering

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[EcoStruxure Control Engineering](#)

## Workforce empowerment

### EcoStruxure Control Engineering software increases operator effectiveness

- Free up the time of your automation experts and developers by automating tedious but necessary tasks, such as code review
- Make informed decisions based on comprehensive results produced by the tools
- Abstract program information enabling all stakeholders, from operators to system experts, to have an understanding of the system

## Investment continuity

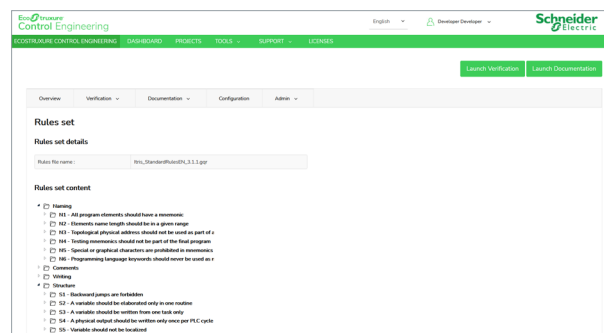
### EcoStruxure Control Engineering software minimizes risk related to obsolescence and loss of intellectual property (IP)

- Tools contain knowledge of many legacy systems, helping make legacy control programs accessible even to developers who are not familiar with these systems
- Facilitate modernization and migration projects, especially of large installed bases, with automatic conversion of control programs (legacy system to modern system, cross-vendor, and/or cross-language)

## Regulatory compliance

### EcoStruxure Control Engineering software supports processes related to standards and compliance

- Use of automated tools is recommended by some standards for tasks such as static analysis, and analysis of control and data flows
- Use of results from the tools as (third-party) supporting evidence during compliance processes



## Smart operations

### EcoStruxure Control Engineering software increases awareness of the system

- Information provided by the tools is coherent with what is contained in the source code
- Tools that can be adopted at any stage of the software lifecycle as and when they are required
- Greater visibility of the current state of the system with access to real-time values of all variables for more efficiency when unplanned downtime occurs (1)

(1) Supported by EcoStruxure Control Engineering – Monitoring tool only.



Formalize approach to control software for greater productivity, code quality and reliability

## Presentation

EcoStruxure Control Engineering is a collection of agnostic tools that support users by automating tasks such as code verification, conversion, reverse-engineering, and troubleshooting. The software tools are all based on a unique technology framework, which enables them to support programs using any of the IEC 61131-3 languages and a number of different PLC/PAC makes and models.

EcoStruxure Control Engineering tools support and add value to users from industries such as:

- Energy: nuclear, hydroelectricity, etc.
- Oil & Gas
- Water & Wastewater
- Transport & Infrastructures: rail, airport, heating networks
- CPG: food & beverage, packaging, etc.
- Automotive
- Defence & Space: marine, aircraft construction, rocket launchers, etc.
- Pharmaceutical

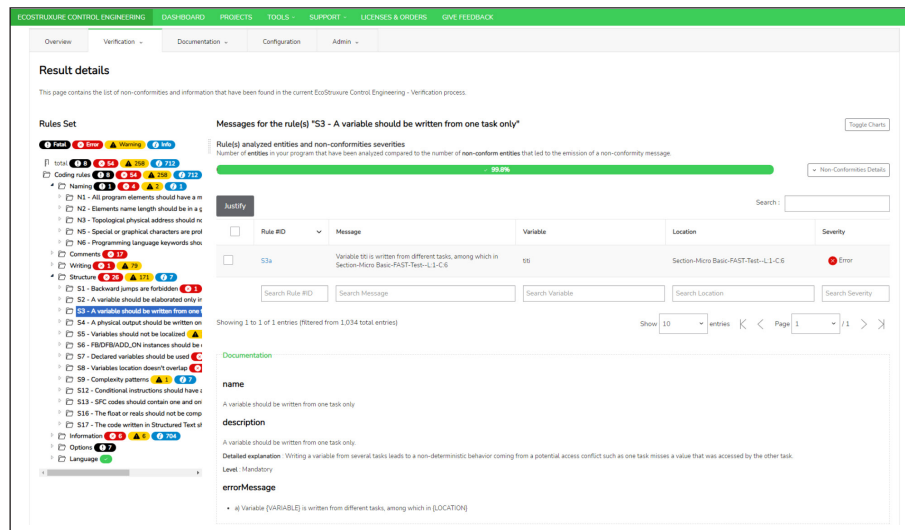


EcoStruxure Control Engineering

## Tools

### EcoStruxure Control Engineering - Verification

EcoStruxure Control Engineering - Verification is a static analysis tool for control programs that automates code verification allowing for improved quality management. The tool helps identify non-conformities and measure complexity, providing useful information to help improve your code quality and maintainability. This is a cloud-based application accessible through a Web browser and user login.



EcoStruxure Control Engineering - Verification

## Tools (continued)

### EcoStruxure Control Engineering - Verification

The main features of the Verification tool are:

- Dashboard: Results presented graphically to give an overview of the evolution of program development and quality
- Result Details: A message for each non-conformity found with information on the variable, the location, and the severity

The Verification tool comes with a choice of sets of pre-defined rules for analyzing control programs, including generic, segment-specific and standard-specific rules. These sets of rules are all based on good programming practices regarding naming, comments, writing, structure, and complexity. The rules file is configurable, meaning that it can be enriched and customized according to your needs.

The screenshot displays the 'Result details' page for rule E1. The interface includes a navigation bar with 'Overview', 'Verification', 'Documentation', and 'Admin'. A progress bar at the top indicates '17 of 396, 4%'. The 'Rules Set' section on the left lists various rule categories like Naming, Comments, and Style. The main area shows a table of results for rule E1, 'All variables should be written before being read'. The table has columns for Rule ID, Message, Variable, Location, and Severity. Below the table are search filters for Rule ID, Variable, Location, and Severity, and a pagination control showing 'Page 1' of 1.

Rule ID	Message	Variable	Location	Severity
E1a	Variable Ping_M4(I) is read at ob_1 (OB1-211) before being written	Ping	ob_1 (OB1-211)	error
E1a	Variable Ping_M4(I) is read at ob_1 (OB1-313) before being written	Ping	ob_1 (OB1-313)	error
E1a	Variable Ping_Done (M18) is read at ob_1 (OB1-412) before being written	Pong_Req_Done	ob_1 (OB1-412)	error
E1a	Variable Ping_Req_Id (M25) is read at ob_1 (OB1-6111) before being written	Pong_Req_Id	ob_1 (OB1-6111)	error
E1a	Variable Received_Data (D2) is read at ob_1 (OB1-6113) before being written	Received_Data	ob_1 (OB1-6113)	error
E1a	Variable Ping_Size (M21) is read at ob_1 (OB1-6116) before being written	Pong_Req_Size	ob_1 (OB1-6116)	error
E1a	Variable Ping_Req_Id (M25) is read at ob_1 (OB1-6119) before being written	Pong_Req_Id	ob_1 (OB1-6119)	error
E1a	Variable Ping_Cnt (M22) is read at ob_1 (OB1-4112) before being written	Pong_Cnt	ob_1 (OB1-4112)	error
E1a	Variable Ping_Cnt (M22) is read at ob_1 (OB1-3114) before being written	Pong_Cnt	ob_1 (OB1-3114)	error

The EcoStruxure Control Engineering - Verification tool:

- helps ensure the longevity of your control systems by improving maintainability from the start
- automatically verifies conformity with your chosen company, segment, or standard guidelines
- is a collaborative tool providing different levels of information for different users, from an overview of project quality to detailed results

## Tools (continued)

### EcoStruxure Control Engineering - Converter

EcoStruxure Control Engineering - Converter is an automatic conversion and reengineering tool for control applications. The tool supports modernization and migration projects by converting a control program to a different controller brand, model, and/or programming language, while maintaining the same behavior and semantics of the source program.

**Conversion report**

Here is a detailed report of the way the EcoStruxure Control Engineering - Converter has converted your code. You will find in this page some insights about how the process has gone, what the result is and what the next steps are. Once you have downloaded your converted code, please proceed with a full reading of it, and proceed to the corrections suggested in this page so it helps you to understand what will be the changes required in the converted code.

This page focuses on four main areas of the conversion: a **summary**, the **quantity of converted code**, the **messages emitted during conversion** and (when supported only) some words about your program's **hardware**.

**Summary**

Source		Destination	
PLC Brand:	Siemens	PLC Brand:	Schneider-Electric
IDE:	Siemens - Simatic Step7 (S7-300, S7-400, CT)	IDE:	Schneider-Electric - Unity-Pro version max v8.2 (Premium, Quantum, M340, M580)
Number of Instructions:	459	Number of Instructions:	459

File Name:

- Ecluse\_Sep7\_FB\_SCL ( 2.18 KB )
- Ecluse\_Sep7\_FC\_SCL ( 5.77 KB )
- Ecluse\_Sep7\_cyclic\_analyzer ( 3.55 KB )
- Ecluse\_Sep7\_cyclic\_monitor ( 3.49 KB )
- Ecluse\_Sep7\_data ( 14.75 KB )
- Ecluse\_Sep7\_mnemonics.spc ( 24.75 KB )

Download buttons: **Download** (Converted Code), **Download** (Download Report PDF)

### EcoStruxure Control Engineering - Converter

The main features of this tool are converting from older PLC formats to modern formats or to C language, cross-vendor, and cross-language. The conversion, launched via a simple step-by-step wizard, provides full support of the variables, process code, and comments (1). A report is generated indicating what needs to be addressed manually post-conversion and the tool has a knowledge base available to support users with this. Re-engineering options can be performed during the conversion process, which include mass renaming, addition of comments, selective code cleaning, and merging CPUs.

**PLC Conversion Assistant**

With PLC Conversion Assistant wizard, PLC application conversion is much quicker and easier process, just follow the step by step instructions to launch the conversion.

1 Start: Setup conversion parameters

2 Source file: Choose source file and options

Application Name: Modernization-Logic

Source PLC Software: Siemens - Simatic Step7 (S7-300, S7-400, CT)

Destination: Schneider-Electric Unity Pro generator

Destination CPU Type:

Project: Ecluse-Test

Next >

The EcoStruxure Control Engineering - Converter tool:

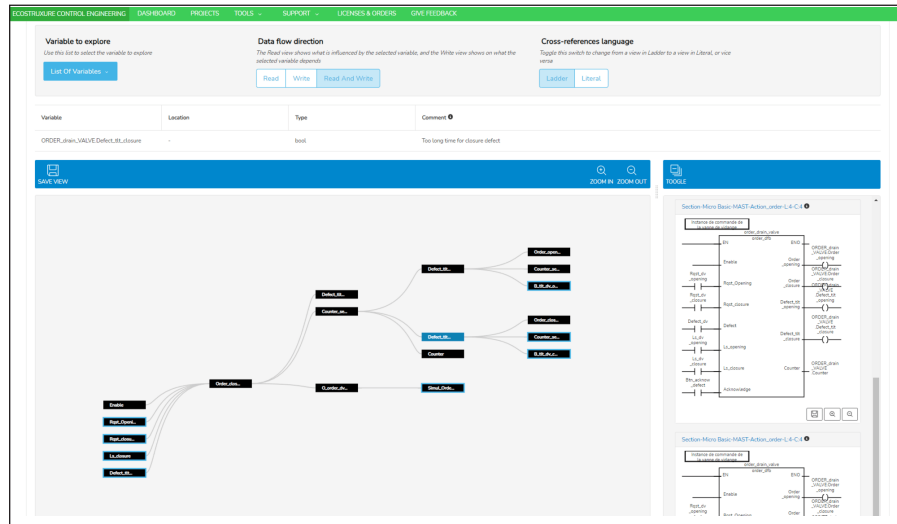
- saves project time and costs by automating the conversion of the control application
- minimizes risk related to obsolescence, such as unplanned downtime
- helps to prevent loss of your intellectual property and capitalizes on existing investment and know-how

(1) The special features and hardware configurations will have to be revisited post-conversion as they are not automatically converted due to the large number of configuration possibilities.

## Tools (continued)

### EcoStruxure Control Engineering - Documentation

EcoStruxure Control Engineering - Documentation is a reverse engineering tool for control programs that analyzes and reconstructs program information from an existing source code. The tool generates an abstract representation of the program that is coherent with its current state, making it easier for users to understand even when unfamiliar with the system. This is a cloud-based application accessible through a Web browser and user login.



EcoStruxure Control Engineering - Documentation

## Tools (continued)

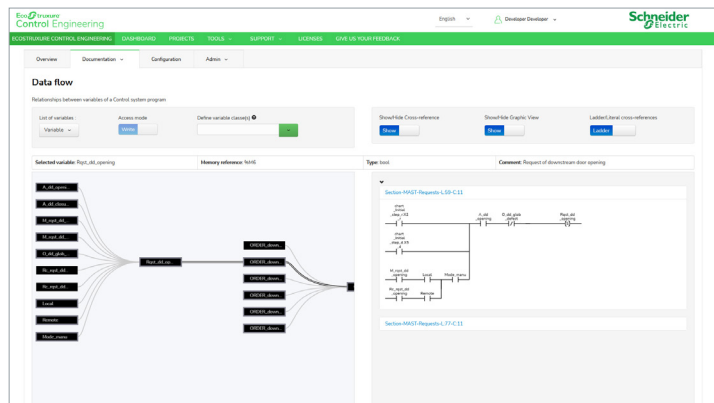
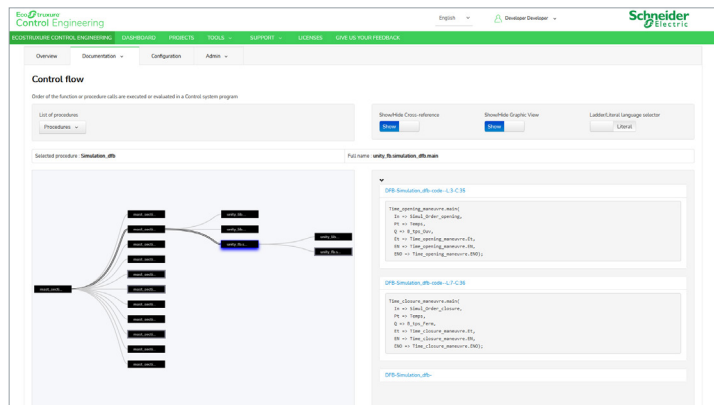
### EcoStruxure Control Engineering - Documentation

The main features of the Documentation tool are:

- Control Flow: Call tree showing the relationships between procedures of the code, to understand the structure of the application and the architecture of its FBs, POU's, functions, and more
- Data Flow: Flow graph showing the relationships between input and output variables to help understand the information flow
- Cross-references: Provide more detail on the relationships of the selected procedure or variable and are available in ladder or literal format

The Control Flow and Data Flow representations, which are unique regardless of the PLC format or brand of the source code, help with:

- Re-documentation: Create a new representation of the structure of the control code so that it is easier to understand
- Design recovery: Support the understanding of the functionality of the control code



The EcoStruxure Control Engineering - Documentation tool:

- is coherent with the current version of the program
- has built-in knowledge of many legacy systems
- helps to prevent loss of intellectual property from obsolete systems

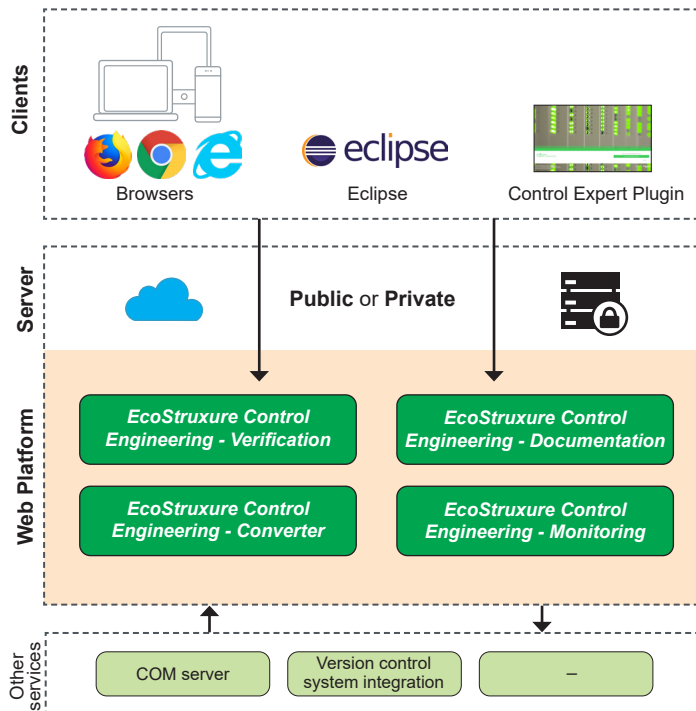


## Architecture

The EcoStruxure Control Engineering tools are cloud-based applications accessible through a Web browser, with no installation required. In certain cases, a private server may be required, due to the type of license or the user's security requirements. This is possible and is generally provided on a virtual machine.

The Web browser is the standard client for accessing the tool platform, however it is also possible to use Eclipse (for advanced usage), or specifically for EcoStruxure Control Engineering - Verification, there is also a plugin available for EcoStruxure Control Expert, allowing the tool to be used directly in the development environment.

The advantage of this architecture is that it is flexible, and enables easy integration with other services or third-party tools, such as a communication server or a version control system.



## References

The EcoStruxure Control Engineering products are license-based, Software as a Service (SaaS) tools. They can be accessed through the Web platform, <https://ecostruxure-control-engineering.se.app>. The user needs to create an account and log in to the platform to access their licenses and use the tools.

The platform is based on two different types of server model:

- The public, cloud-based server is the standard model for accessing the tools. With this model, the user will always have access to the latest product versions, can use the collaboration functionalities, and can easily integrate with third-party tools (i.e. version management systems).
- The private server model (1) is generally based on a virtual machine and is aimed for users who have strict security requirements, but also necessary for those purchasing a perpetual license. This model comes at an extra cost.

## Types of licenses

There are different types of licenses for each product to meet the various use cases:

- Per analysis license: Usage-based one-shot license for single analysis
- Per program license: Multiple analysis of one control program for a chosen duration

The licenses are also available based on the tenure for EcoStruxure Control Engineering - Verification and Documentation tools:

- License for the annual usage of the cloud-based server: a yearly fee which includes all updates and support.
- License for the usage of the on-premise server: one-time fee for access to the tool which includes updates and support for the first year of the tool. To continue with the updates and support from the second year onwards, users will have to purchase annual update licenses that correspond to the number of licenses that were originally purchased.

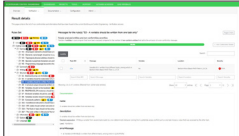
(1) Updates can only be done by Schneider technical team during on-site visit.

## References

### How to order

The EcoStruxure Control Engineering licenses can be purchased from your local Customer Care Center or a limited selection of licenses are also available to purchase online on the [Schneider Software Shop](#).

The EcoStruxure Control Engineering software tools are accessed through a Web platform at <https://ecostruxure-control-engineering.se.app>. It is necessary to create an account on this platform in order to access the software tools, licenses, and projects.



EcoStruxure Control Engineering - Verification

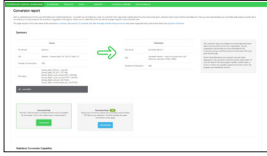
## EcoStruxure Control Engineering - Verification

Description	License type	License duration	Cloud/ On Premise	Reference
<b>EcoStruxure Control Engineering Verification - One-Shot License</b>	Per analysis	Single analysis	Cloud or On Premise	<a href="#">CEGVER01AN</a>
<b>EcoStruxure Control Engineering Verification - 10x One-Shot License</b>	Per analysis	10x Single analysis	Cloud or On Premise	<a href="#">CEGVER10AN</a>
<b>EcoStruxure Control Engineering Verification - 4-Month Pilot Project License Per Program</b>	Per program	4 months	Cloud	<a href="#">CEGVAD4MPT</a>
<b>EcoStruxure Control Engineering Verification - Annual Subscription Per Program</b>	Per program	1 year	Cloud	<a href="#">CEGVADY01P</a>
<b>EcoStruxure Control Engineering Verification - 10x Annual Subscription Per Program</b>	Per program	1 year	Cloud	<a href="#">CEGVADY10P</a>
<b>EcoStruxure Control Engineering Verification - 50x Annual Subscription Per Program</b>	Per program	1 year	Cloud	<a href="#">CEGVADY50P</a>
<b>EcoStruxure Control Engineering Verification - Perpetual License Per Program</b>	Per program	Perpetual	On Premise	<a href="#">CEGVADP01P</a>
<b>EcoStruxure Control Engineering Verification - 10x Perpetual License Per Program</b>	Per program	Perpetual	On Premise	<a href="#">CEGVADP10P</a>
<b>EcoStruxure Control Engineering Verification - 50x Perpetual License Per Program</b>	Per program	Perpetual	On Premise	<a href="#">CEGVADP50P</a>
<b>EcoStruxure Control Engineering Verification - Perpetual Licenses 1-Year Update Multiplier</b>	Verification Documentation	1 year support & updates	On Premise	<a href="#">CEGVADP1UM</a>



EcoStruxure Control Engineering - Documentation

EcoStruxure Control Engineering - Documentation				
Description	License type	License duration	Cloud/ On Premise	Reference
EcoStruxure Control Engineering Documentation - One-Shot License	Per analysis	Single analysis	Cloud or On Premise	<a href="#">CEGDOC01AN</a>
EcoStruxure Control Engineering Documentation - 10x One-Shot License	Per analysis	10x Single analysis	Cloud or On Premise	<a href="#">CEGDOC10AN</a>
EcoStruxure Control Engineering Documentation - 4-Month Pilot Project License Per Program	Per program	4 months	Cloud	<a href="#">CEGVAD4MPT</a>
EcoStruxure Control Engineering Documentation - Annual Subscription Per Program	Per program	1 year	Cloud	<a href="#">CEGVADY01P</a>
EcoStruxure Control Engineering Documentation - 10x Annual Subscription Per Program	Per program	1 year	Cloud	<a href="#">CEGVADY10P</a>
EcoStruxure Control Engineering Documentation - 50x Annual Subscription Per Program	Per program	1 year	Cloud	<a href="#">CEGVADY50P</a>
EcoStruxure Control Engineering Documentation - Perpetual License Per Program	Per program	Perpetual	On Premise	<a href="#">CEGVADP01P</a>
EcoStruxure Control Engineering Documentation - 10x Perpetual License Per Program	Per program	Perpetual	On Premise	<a href="#">CEGVADP10P</a>
EcoStruxure Control Engineering Documentation - 50x Perpetual License Per Program	Per program	Perpetual	On Premise	<a href="#">CEGVADP50P</a>
EcoStruxure Control Engineering Documentation - Perpetual Licenses 1-Year Update Multiplier	Verification Documentation	1 year support & updates	On Premise	<a href="#">CEGVADP1UM</a>



EcoStruxure Control Engineering - Converter

## EcoStruxure Control Engineering - Converter

Description	License type	License duration	Cloud/ On Premise	Reference
EcoStruxure Control Engineering Converter - One Program Conversion	Per program	Single conversion	Cloud or On Premise	<a href="#">CEGCNV1PRG</a>



EcoStruxure Control Engineering - Monitoring

## EcoStruxure Control Engineering - Monitoring

Description	License type	License duration	Cloud/ On Premise	Reference
EcoStruxure Control Engineering Monitoring - Basic Package 10 PLCs	Basic package (10 PLCs)	Perpetual	On Premise	<a href="#">CEGMON10BA</a>
EcoStruxure Control Engineering Monitoring - Additional 5 PLCs	Additional PLCs (+5 PLCs)	Perpetual	On Premise	<a href="#">CEGMON5ADD</a>
EcoStruxure Control Engineering Monitoring - Basic Package 10 PLCs 1-Year Update	Basic package (10 PLCs)	1 year support and updates	On Premise	<a href="#">CEGMON10BU</a>
EcoStruxure Control Engineering Monitoring - Additional 5 PLCs 1-Year Update	Additional PLCs (+5 PLCs)	1 year support and updates	On Premise	<a href="#">CEGMON5ADU</a>

## EcoStruxure Control Engineering - Virtual Machine

Description	License type	License duration	Cloud/ On Premise	Reference
EcoStruxure Control Engineering - Virtual Machine infrastructure for on premise/private server licenses	-	Perpetual	On Premise	<a href="#">CEGVMA1PRS</a>

C	
<a href="#">CEGCV1PRG</a>	13
<a href="#">CEGDOC01AN</a>	12
<a href="#">CEGDOC10AN</a>	12
<a href="#">CEGMON10BA</a>	13
<a href="#">CEGMON10BU</a>	13
<a href="#">CEGMON5ADD</a>	13
<a href="#">CEGMON5ADU</a>	13
<a href="#">CEGVAD4MPT</a>	11 12
<a href="#">CEGVADP01P</a>	11 12
<a href="#">CEGVADP10P</a>	11 12
<a href="#">CEGVADP1UM</a>	11 12
<a href="#">CEGVADP50P</a>	11 12
<a href="#">CEGVADY01P</a>	11 12
<a href="#">CEGVADY10P</a>	11 12
<a href="#">CEGVADY50P</a>	11 12
<a href="#">CEGVER01AN</a>	11
<a href="#">CEGVER10AN</a>	11
<a href="#">CEGVMA1PRS</a>	13

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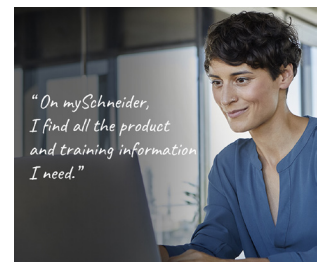
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