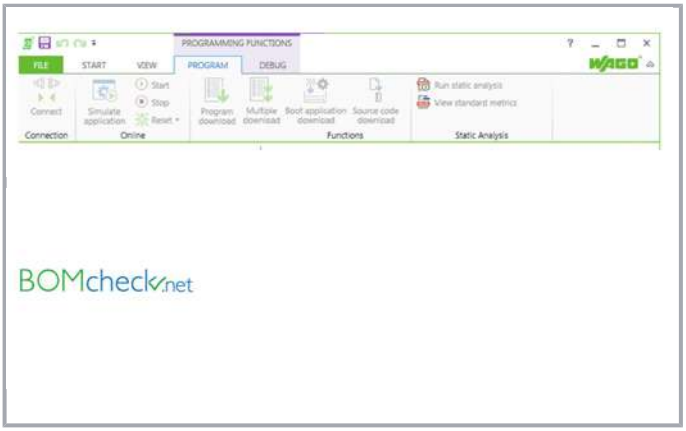

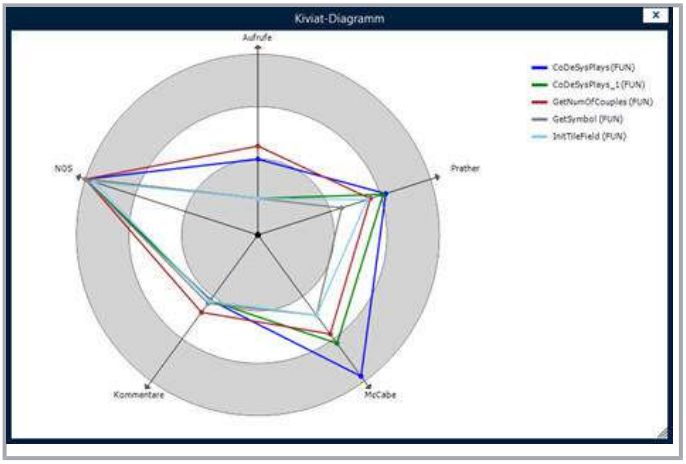

Item description

In addition to the compiler check, the *e!COCKPIT* Static Analysis add-on checks the source code based on defined rules and naming conventions. This add-on displays potential development problems, allowing errors to be detected and corrected before field testing. More than 100 partly parameterizable rules have already been implemented that can be combined into individual rule sets. The add-on functions are seamlessly integrated into the *e!COCKPIT* development environment.

Advantages:

- Avoid errors during program creation
- Save time-consuming troubleshooting during application development
- Ensure that the program code conforms to the defined rules and is easily readable

Subject to changes. Please also observe the further product documentation!

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

Main Functions:

- Check the application explicitly via menu command
- Alternatively: automatic verification during code generation
- Control pre-processor instructions, and determine which parts of the code will be analyzed

Rules and Naming Conventions:

Within the *e!COCKPIT* project settings, a standard set of programming rules and naming conventions can be configured in the standard version:

- Unused variables
- Overlapping memory areas
- Simultaneous access
- Multiple write access to output
- Multiple use of the name

Additionally, the following analytics can be performed with *e!COCKPIT* Static Analysis:

- Discover unreachable parts of the code
- Find empty objects
- Find empty instructions
- Find useless declarations
- Conversions
- Write access to input variables
- Rules for operators
- Rules for FOR and CASE instructions
- Strict testing of IEC rules

Result of the Analysis:

The result of the analysis is displayed in the message window. Each violation has a unique number and can be uniquely associated with the configured rules and naming conventions.

Metrics:

Various metrics, such as the number of code lines, memory consumption or the evaluation of software complexity, as well as the upper and lower limits to be observed, can be configured for evaluation of the code quality.

The results of the applied metrics can be displayed in tabular and graphical form as a Kiviat diagram.

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Data

System requirements

Hard disk storage	min. 30 MByte
Other required software	e!COCKPIT version: V1.4.0

Delivery

License type	Single-user license
Delivery type	Installation file (download)
License type note	Single license allows installation on one computer.
License type note (2)	Internet connection may be required for license activation.

Commercial data

Packaging type	0
Country of origin	QU
GTIN	4055143708272
Customs Tariff No.	88888888888

Counterpart

Downloads

Documentation

Bid Text

2759-403/1420-1000 X81 - Datei	Feb 19, 2019	xml 6.9 kB	Download
2759-403/1420-1000 docx - Datei	Jan 10, 2019	docx 18.2 kB	Download

System Description

Software – General Product Information		pdf 485.7 kB	Download

Engineering-Software

e!COCKPIT Add-On

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e!COCKPIT Static Analysis V 4.2.0	V 4.2.0 Feb 26, 2018	URL 2.8 MB	Download

Installation Notes

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