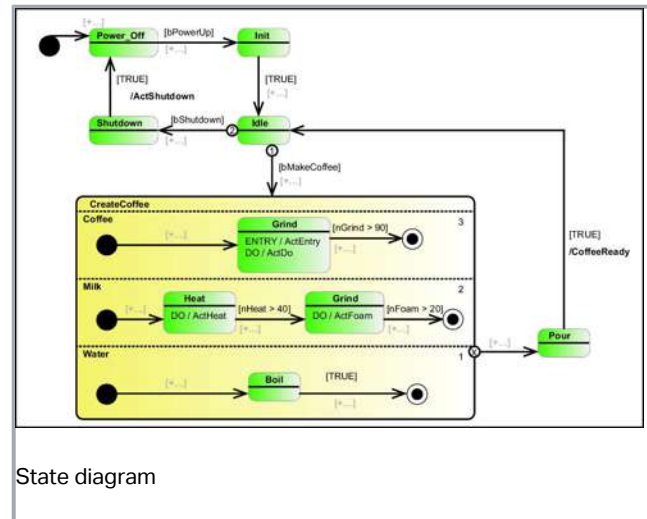


Class diagram



State diagram

## Item description

UML (Unified Modeling Language) is a graphical language for specifying, designing and documenting object-oriented software. It clearly facilitates discussions between programming and other disciplines within system development. The *e!COCKPIT* UML add-on extends the *e!COCKPIT* Engineering Software with two languages of the "Unified Modeling Language": the class diagram and the status diagram.

### Advantages:

- Improved readability of the program code via clear class and behavior diagrams in standardized form
- Reduce programming errors by generating program code from UML diagrams
- Easier debugging through online data in the state diagram

### Class Diagram:

The class diagram belongs to the group of UML structure diagrams. With the additional graphic editor, the object-oriented structure of *e!COCKPIT* projects can be mapped or designed. The various object classes (e.g., function blocks or interfaces), including the variables and methods used in them, and their relationships are clearly displayed.

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



The existing project structure can be imported directly from the device structure when creating a class diagram. However, a project structure can also be rebuilt using the following available class and relationship elements:

- Class (POU)
- Interface
- Variable declaration
- Property
- Method
- Generalization
- Realization relationship
- Association
- Composition

New objects in the class diagram editor are automatically inserted into the device structure.

#### State Diagram:

The state diagram belongs to the group of UML behavior diagrams. It is a graphical language for specifying and designing the sequence of event-discrete systems. Unlike with the class diagram, executable application code is generated when compiling a state diagram.

The state diagram editor includes a selection of step and transition elements:

- Start state
- End state
- State
- Composite state
- Junction/connection
- Selection
- Transition
- End transition
- Exception transition

When the application is running, the status diagram is switched according to the clock cycle. In addition, an independent switching behavior can be realized via cyclic internal state diagrams. In online mode, the state diagram is animated so that the current status of the process can be tracked at any time.

## Data

### System requirements

Hard disk storage	min. 20 MByte
Other required software	e!COCKPIT version: V1.3.0

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WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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



## 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	4055143590808
Customs Tariff No.	88888888888

## Counterpart

### Downloads

#### Documentation

##### Data sheet

2759-402/1420-1000, e!COCKPIT UML Einzellizenz, Datenblatt	pdf 287.1 kB	Download
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##### Bid Text

2759-402/1420-1000 GAEB docx - Datei	Jan 10, 2019	docx 18.0 kB	Download
2759-402/1420-1000 GAEB X81 - Datei	Feb 19, 2019	xml 7.3 kB	Download

## System Description

Software – General Product Information	pdf 485.7 kB	Download
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## Engineering-Software

### e!COCKPIT Add-On

e!COCKPIT UML V 4.0.2	V 4.0.2	URL	Download
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	Feb 24, 2017	1.6 MB	
e!COCKPIT UML V 4.0.3	V 4.0.3	URL	Download
	Feb 26, 2018	3.2 MB	

## Installation Notes

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WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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