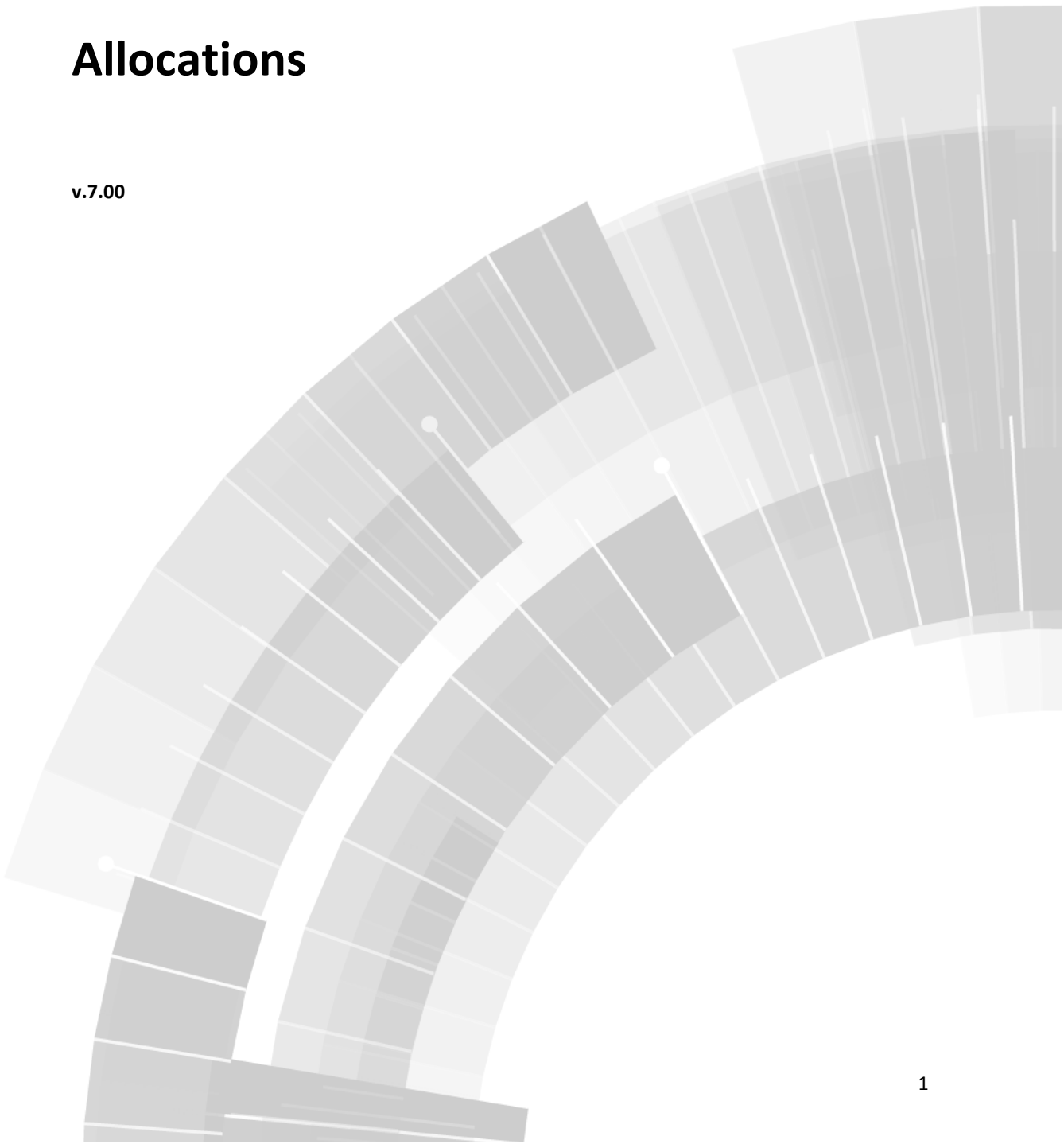


zenon manual

Allocations

v.7.00





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1. Welcome to COPA-DATA help

GENERAL HELP

If you miss any information in this help chapter or have any suggestions for additions, please feel free to contact us via e-mail: documentation@copadata.com (<mailto:documentation@copadata.com>).

PROJECT SUPPORT

If you have concrete questions relating to your project, please feel free to contact the support team via e-mail: support@copadata.com (<mailto:support@copadata.com>)

LICENSES AND MODULES

If you realize that you need additional licenses or modules, please feel free to contact the sales team via e-mail: sales@copadata.com (<mailto:sales@copadata.com>)

2. Allocations

Allocations make it possible to place the current value of a variable onto a second variable within or without the driver.

In

 **License information**

Part of the standard license of the Editor and Runtime.

zenon it is possible to write values from the controller directly into a SQL database or to write value changes from one driver to another driver when they occur. You can also make cross-project allocations.

Attention: Cross-project allocations are executed only after all projects have been loaded.

TRANSFER

An allocation transfers value, state and time stamp of the source variable to the target variable.

Note: At the moment state and time stamp can only be processed by the following drivers:

- ▶ internal driver
- ▶ SQL driver
- ▶ AK driver (SICAM 230)

States Real time external (T_EXTERN), Real time internal (T_INTERN) und Daylight saving time/standard time announcement (T_CHG_A) are not transferred. They are defined by the time stamp.

The signal resolution should therefore have the same limits for both variables (overflow behavior).

The transfer of the value occurs on a value change: Whenever the source variable's value is changed, the value of the target variable is changed as well. Should the value of the target variable be changed independently from that of the source variable, then the target variable has the different value as long as the value of the source variable does not change.

 **Info**

*Allocations to **Internal variables** are also only carried out on the server.*

PROJECT MANAGER CONTEXT MENU

Menu item	Action
Allocation new	Inserts a new allocation in the list.
Export XML all ...	Exports all entries as an XML file.
Import XML...	Imports XML files.
Help	Opens online help.

3. Engineering in the Editor

To define allocations:

1. select sub-node **Allocations** in node **Variables** in the **Project manager**.
2. already existing allocations are displayed in the detail view
3. select the desired action from the context menu or the tool bar, e.g. **New allocation**
4. in the properties window the properties of the new allocation are displayed and can be edited

An allocation implicitly needs:

- ▶ an unique name
- ▶ a source variable
- ▶ a target variable

When selecting property **Source variable** or **Target variable** the corresponding variable list for selecting the desired variable is displayed. As source variable you can select any variable (except String variable) of any driver. The target variable must be readable/writeable.

Each value change to the source variable is transmitted to the target variable of the allocation.

The context menu of the detailview of the Project Manager allows to cut, copy, insert or delete existing allocations.

4. Allocation detail view of toolbar and context menu



CONTEXT MENU

Menu item	Action
Allocation new	Inserts a new allocation in the list.
Cut	Copies the selected entries to the clipboard and deletes them from the list.
Copy	Copies selected entries to the clipboard.
Paste	Pastes the contents of the clipboard. If an entry with the same name already exists, the content is pasted as "Copy of".
Delete	Deletes selected entries.
Edit selected cell	Opens the selected cell for editing. The binocular symbol in the header shows which cell has been selected in a highlighted line.
Properties	Opens the Properties window for the selected entry.
Export selected XML	Exports selected entries as an XML file.
Import XML	Imports XML files.
Remove filter	Removes all filter settings.
Help	Opens online help.

5. Trigger variables and trigger type

For allocations a trigger variable and a trigger type can be defined. With this event-triggered allocations can be defined. Values are not allocated automatically but only when the trigger variable changes its value.

Possible configurations are:

Trigger variable	Trigger type	Result
not defined		Each change in the source variable causes the source variable to be allocated to the target variable.
defined	Edge	The allocation is only performed when the value of the trigger variable changes from 0 to 1. Only the positive flank of the Bool variable causes the allocation to be triggered. The allocation is no longer triggered automatically by a value change of the source variable.
defined	Level	As long as the value of the Trigger-Variable equals 1, the allocation is carried out. Every time the value of the source variable changes, the allocation is activated and the value is written to the source variable. The allocation stays active until the value of the trigger variable changes back to 0.