



COPADATA
do it your way

zenon manual

History of Changes

v.8.00





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Contents

1. Welcome to COPA-DATA help	4
2. History of Changes.....	4
3. Configuration in the Editor.....	5
3.1 Change history detail view of toolbar and context menu.....	6
4. Logged data.....	7
4.1 Filter data.....	9
5. Logged actions.....	10
6. Export data.....	13

1. Welcome to COPA-DATA help

ZENON VIDEO-TUTORIALS

You can find practical examples for project configuration with zenon in our YouTube channel. The tutorials are grouped according to topics and give an initial insight into working with different zenon modules. All tutorials are available in English.

GENERAL HELP

If you cannot find any information you require in this help chapter or can think of anything that you would like added, please send an email to documentation@copadata.com.

PROJECT SUPPORT

You can receive support for any real project you may have from our Support Team, who you can contact via email at support@copadata.com.

LICENSES AND MODULES

If you find that you need other modules or licenses, our staff will be happy to help you. Email sales@copadata.com.

2. History of Changes

The history of changes serves for complete documentation of the phase of engineering. All changes to a project such as change, delete, create, etc. can be protocolled. Per default the history of changes turned off and must be activated (on page 5) in the Editor.

PROJECT MANAGER CONTEXT MENU

Menu item	Action
Export all as XML	Exports all entries as an XML file.
Export all as CSV...	Exports all entries as an CSV file.
Activate extended filter	Opens the dialog for Engineering enhanced filter settings (on page 9).
Deactivate extended filter	Deletes the settings for the extended filters and deactivates the property for the engineering of the extended filter settings.
Editor profile	Opens the drop-down list with predefined editor profiles.
Help	Opens online help.

3. Configuration in the Editor

The history of changes must be activated in the Editor.

To do this, carry out the following steps:

1. Go to the **History of Changes** group in the project properties.
2. Activate the **History of changes active** property.
3. Select via property **Detailing level** which details should be recorded:
 - **Object:**
Only the object names of the changed objects are logged.
 - **Properties:**
Additionally to the object names the changed properties and the new values are displayed in the history of changes.
 - **Value changes:**
Not only the new value of a property is displayed but also the old one. This makes complete traceability of the changes of values possible. This setting causes the most detail level of logging.
Note: Amended values are cut to a length of 128 characters.
4. The following is applicable for the history of changes with multi-user projects:
If the **Automatically allow changes** project property is activated, write access is automatically unlocked if a comment is entered. This unlocking corresponds to the manual unlocking of project content with the **Check out** context menu entry .

Caution: The property is activated by default. Activation of this property requires a very powerful, high-performance computer.

PROTECTING THE HISTORY OF CHANGES

The activating/deactivating of the history of changes can be protected from unauthorized user access. To do this:

1. Go to the **User Administration** group in the project properties.
2. Click in the field of property **Function authorizations**.

The dialog for changing the function authorization is opened

3. Select for **Turn on/off history of changes** the desired authorization level.

Note: You can find this option in the **Editor function authorizations** tab.

3.1 Change history detail view of toolbar and context menu



CONTEXT MENU

Menu item	Action
Filter Module	Sets the filter to the module of the selected entry.
Filter object	Sets the filter to the object of the selected entry.
Activate extended filters	Activates the property for engineering extended filter settings.
Deactivate extended filters	Deletes the settings for the extended filters and deactivates the property for the engineering of the extended filter settings.
Remove all filters	Removes all filter settings.
Copy	Copies the selected entries to the clipboard.
Delete	Deletes selected entries after a confirmation from list.
Export selected as XML...	Exports all selected entries as an XML file.
Export selected CSV	Exports all selected entries as an CSV file.
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. Only cells that can be edited can be selected.
Properties	Opens the Properties window.
Help	Opens online help.

4. Logged data

If the history of changes is activated, the changes are displayed in the detail view of the project manager according to the selected settings. The first entry documents the activation of the History of changes. At deactivation the last entry is the deactivating of the history of changes.

Entry	Description
Status	State of the object for multi-user projects. <ul style="list-style-type: none"> ▶ Green: Object has the state <code>Enable</code> changes ▶ Empty: Object has the state <code>Apply</code> changes
Timestamp	Date and time.
Action	Type of interference. Possible values: <ul style="list-style-type: none"> ▶ New ▶ Changed ▶ Deleted ▶ New - VBA ▶ Changed - VBA ▶ Deleted - VBA
Module	The module (e.g. PFS, archive, report) in which the changes have been made.
Object	Object which was changed.
Element	Element which was changed. Recorded is the name as defined in property Element name .
Property	The property of the objects/elements which were changed.
Old value	The value of the property before changes were done. Only available if you selected <code>Value</code> change in project property Detailing level .
New value	Value of the property after the change. Only available if in project settings under Detailing level <code>Properties</code> or <code>Value</code> changes was selected.
User	The user who carried out the changes. If the user administration is not activated or no user is logged on, the Windows user is read out and entered.
Computers	The name of the computer where the changes have been made.
Comment	Text for user-defined comments.

You can sort the columns as you wish by dragging&dropping. Each column can be filtered (on page 9)for certain content.

Note: If a property that opens a dialog with further settings is changed, not all changes are recorded.



Example

In module **Batch Control** you change a parameter which is linked to a phase via a formula. This change is not recorded. However, if the formula is changed, this change is recorded.

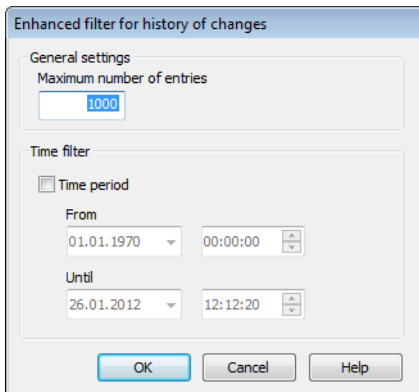
4.1 Filter data

There are two possibilities to filter displayed list of the history of changes:

1. Enhanced filter of the history of changes
2. Filter of the list view

ENHANCED FILTER OF THE HISTORY OF CHANGES

You can reach the enhanced filter via the context menu in the project manager or in the detail view.



The screenshot shows a dialog box titled "Enhanced filter for history of changes". It is divided into two sections: "General settings" and "Time filter".

- General settings:** Contains a label "Maximum number of entries" and a text input field with the value "1000".
- Time filter:** Contains a checkbox labeled "Time period" which is currently unchecked. Below it are two rows of date and time pickers:
 - From:** A date picker showing "01.01.1970" and a time picker showing "00:00:00".
 - Until:** A date picker showing "26.01.2012" and a time picker showing "12:12:20".

At the bottom of the dialog box are three buttons: "OK", "Cancel", and "Help".

GENERAL SETTINGS

Parameters	Description
Maximum number of entries	<p>Defines the maximum number of data sets which are displayed in the list.</p> <p>0: Unlimited number</p> <p>Default: 1000</p>

TIME FILTER

Parameters	Description
Time period	<p>Enables filtering on a specified time period or to or from a certain point in time.</p> <p><i>Active:</i> Only entries from the given time period are displayed. <i>Default:</i> deactivated</p>
From	Date and time after which changes should be displayed.
Until	Date and time up to which changes should be displayed.

5. Logged actions

In the history of changes the following is protocoled:

Object	Changes
zenon Logic	<ul style="list-style-type: none"> ▶ zenon Logic New project ▶ zenon Logic Delete project ▶ zenon Logic Change project
Add-In Framework	<ul style="list-style-type: none"> ▶ Installation of add-in packages ▶ Uninstallation of add-in packages

Archives	<ul style="list-style-type: none"> ▶ New archive ▶ Delete archive ▶ Change archive ▶ Add variable ▶ Delete variable
User	<ul style="list-style-type: none"> ▶ New user ▶ Delete user ▶ Change user
Screens	<ul style="list-style-type: none"> ▶ New screen ▶ Delete screen ▶ Change screen
Files	<ul style="list-style-type: none"> ▶ Add file ▶ Delete file ▶ Change file
Data Types	<ul style="list-style-type: none"> ▶ Datatype new ▶ Delete data type ▶ Change data type
Dynamic elements/ Vector elements	<ul style="list-style-type: none"> ▶ Element new ▶ Delete element ▶ Change element
Functions	<ul style="list-style-type: none"> ▶ Function new ▶ Delete function ▶ Change function
Menus	<ul style="list-style-type: none"> ▶ New main menu ▶ Delete main menu ▶ Change main menu ▶ New context menu ▶ Delete context menu ▶ Change context menu
Message Control	<ul style="list-style-type: none"> ▶ At saving changes
Process Control Engine	<ul style="list-style-type: none"> ▶ At saving changes
Project	<ul style="list-style-type: none"> ▶ Move project within project tree
Project Backup	<ul style="list-style-type: none"> ▶ Creating a project backup with version number.

Reaction Matrices	<ul style="list-style-type: none"> ▶ Rema new ▶ Delete Rema ▶ Change Rema
Report	<ul style="list-style-type: none"> ▶ New report ▶ Delete report ▶ Change report- when saved
Recipe	<ul style="list-style-type: none"> ▶ New Recipe ▶ Delete recipe ▶ Change Recipe ▶ Add variable ▶ Delete variable ▶ Change value
Recipe groups	<ul style="list-style-type: none"> ▶ New Recipe group ▶ Delete recipe group ▶ Change Recipe group ▶ New Recipe ▶ Change Recipe ▶ Delete recipe ▶ Add variable ▶ Delete variable ▶ Change value ▶ Change source ▶ Change source type
Frames	<ul style="list-style-type: none"> ▶ Create new frame ▶ Delete frame ▶ Change frame
Scheduler	<ul style="list-style-type: none"> ▶ At saving changes
Fonts	<ul style="list-style-type: none"> ▶ Font new ▶ Delete font ▶ Change font
Scripts	<ul style="list-style-type: none"> ▶ Script new ▶ Delete script ▶ Change script

Language table	<ul style="list-style-type: none"> ▶ New entry ▶ Delete entry ▶ Change entry
Driver	<ul style="list-style-type: none"> ▶ Driver new ▶ Delete Driver ▶ Change Driver
VBA	<ul style="list-style-type: none"> ▶ When saved the changes in the VBA-Editor an entry is generated.
Variables	<ul style="list-style-type: none"> ▶ New variable ▶ Delete variable ▶ Change data point
Interlockings	<ul style="list-style-type: none"> ▶ New interlocking ▶ Change interlocking ▶ Delete interlocking ▶ New variable ▶ Delete variable
Time Control	<ul style="list-style-type: none"> ▶ New time function ▶ Delete time function ▶ Change time function

6. Export data

The data of the history of changes can be exported as XML or CSV file.

To export data:

1. Highlight the desired entries
(multiple selection is possible using the key combinations `Ctrl+left mouse button`, **Shift+left mouse button** and **Ctrl+a**)
2. Select the desired export format in the context menu (XML, CSV).
The dialog to select the save location is opened.
3. Enter a name and confirm by clicking **Save**

Note: The headings of the exported entries are always in English.