zenon manual

Time Control

v.8.10

COPA·DATA

Contents

1 Welcome to COPA-DATA help

ZENON VIDEO-TUTORIALS

You can find practical examples for project configuration with zenon in our YouTube channel (https://www.copadata.com/tutorial_menu). 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 Time Control

Time control makes it possible to execute actions in the Runtime using time functions. A time function calls up a zenon function and executes it once at a certain time or cyclically. For example, production data can be saved automatically on a server in the network.

PROJECT MANAGER CONTEXT MENU

Menu item	Action
New time function	Creates a new function for the time control.

Menu item	Action
Export all as XML	Exports all entries as an XML file.
Import XML...	Imports entries from an XML file.
Editor profile	Opens the drop-down list with predefined editor profiles.
Help	Opens online help.

3 Engineering in the Editor

Time control is configured in the Editor in the **time control** node. Pre-existing time functions are shown in the detail view Time functions can be edited by means of their properties.

Note: Turn of the month and turn of the year refers to the set execution date and not to the turn of the year on *01. 01.* at *00:00*.
If the change should be executed at exact this point in time, the engineering must be done for this point in time; e.g. *01. 01. 2017, 00:00:00*.

4 Time control detail view of toolbar and context menu

CONTEXT MENU

Menu item	Action
New time function	Inserts a new time function in the list.
Jump back to starting element	Jumps back to the initial position in the zenon Editor. **Note:** This context menu entry is only available if a jump to the current position has been made from another position with the **Linked elements** context menu entry.
Copy	Copies the selected entries to the clipboard.

Menu item	Action
Paste	Pastes the content from the clipboard. If an entry with the same name already exists, the content is pasted as "**Copy of...**".
Delete	Deletes selected entries after a confirmation from list.
Export selected as XML...	Exports all selected entries as an XML file.
Import XML	Imports entries from an XML file.
Remove all filters	Removes all filter settings.
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.
Edit text in selected column	Opens the dialog for searching and replacing texts.
Properties	Opens the **Properties** window.
Help	Opens online help.

5 Configure time function

To create a time function:

1. Highlight the **Time control** node in the project manager.

2. Select **New time function** in the context menu or in the toolbar.

   A new time function is created.

3. Configure the time function using its properties.
   Above all:

   a) **Active**: Activate this property in order for the time control to be executed in the Runtime.

   b) **Name**: Unique name of the function.
      Note: This name cannot be language-switched.

   c) **Function**: Selection of the function that is to be called up at a defined point in time.

   d) **Execution type**: Configuration of when and at what interval the function is executed.
      With **Start time** and, if required, **interval**.

e) Select, if necessary, in the **Execution days** group, the days on which the function is to be executed

EXECUTE SEVERAL FUNCTIONS

To execute several zenon functions using a time function:

1. Create a script that contains all required functions.

2. Create a **Script: execute** function that executes this script.

3. In the **Function** property, select the function that executes the script.

CONFIGURE INTERVALS

Time functions can be executed in intervals.
To execute a time function:

1. Select, for the **Execution type** property, a value that is not *on this day only*.

2. Configure the **Start time**.

3. With cyclical execution: Configure one of the properties:

   ▶ **interval**: The function is executed on this day from the start time in the configured interval. Example: With the value *00:15:00*, the time function is executed every 15 minutes.

   ▶ **Interval one month**: The function is executed from the start time each month at the same time.

   ▶ **Interval one year**: The function is executed from the start time each year at the same time.

4. For repetitions on several days: In the **Execution days** group, select the days on which the function is to be executed.

Note: Turn of the month and turn of the year refers to the set execution date and not to the turn of the year on *01. 01.* at *00:00*.
If the change should be executed at exact this point in time, the engineering must be done for this point in time; e.g. *01. 01. 2017, 00:00:00*.

FILTERING FOR EQUIPMENT GROUPS

Time functions can be linked to equipment groups with the **Equipment Groups** property. This linking only has an effect in the Editor. It allows you to filter time functions for equipment groups.