zenon manual

Wizards

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. Wizards

In order to be able to handle recurring tasks in the engineering phase easily and expeditiously, zenon offers wizards for different fields of engineering.

Users can also create their own wizards.
License information

Part of the standard license of the Editor and Runtime.

START WIZARDS

To start a wizard:

- In the File drop down menu, select Wizards ...

  or

- press the short cut Alt+F12

The wizard for project creation is automatically offered when a new project is created.

SETTINGS ZENON6.INI

For wizards to be displayed, the settings for VBA and/or VSTA must be set correctly in file zenon6.ini:

[VBA]
EIN=1

[VSTA]
ON=1

If VSTA wizards are not displayed although the settings are correct, set entry LOADED= to 1 in area [VSTA].
3. **Topics**

The following wizards are available in zenon:

- Import - Export (on page 33)
  - FactoryLink import wizard (on page 33)
  - Import Wizard (on page 68)
  - PDiag import wizard (on page 36)
  - XML export wizard (on page 63)
- Language table (on page 68)
  - Wizard for System Texts
- Project (on page 107)
  - VBA project wizard
  - VSTA project wizard (on page 121)
  - Documentation wizard (on page 144)
- Screens and frames (on page 144)
  - World View Wizard (on page 144)
- Variables and functions (on page 145)
  - Wizard for Functions
  - System Variable Creation Wizard
  - Wizard for creating variables (on page 145)

### 3.1 Analyzer Export Wizard

The zenon Analyzer Export Wizard supports the export of metadata from zenon for the zenon Analyzer.

The following can be exported:

- Data from the global project
  - Equipment models
  - Alarm/event classes
  - Alarm/event groups
• Users
  ▶ Variables from local projects

Note: The wizard is only available in English.

3.1.1 Install and call up wizard

To install the wizard:

1. open the workspace in zenon
2. select Update wizards command in the File menu
3. in area Additional folders for VSTA Wizards click on button ...
4. navigate to the installation medium in the file browser
5. there select folder [Installation medium]\Setup\Wizard\zenon7.00\WizardsVSTA
6. select file wizards.ini
7. start the update
8. the wizard was added to the folder of the wizards and can be started

**Note:** If the wizard is not displayed, add the following reference to the workspace add-in. `system.core`

**CALL UP WIZARD**

*For wizards to be displayed, the settings for VBA and/or VSTA must be set correctly in file `zenon6.ini`:

[VBA]
EIN=1
[VSTA]
ON=1

If VSTA wizards are not displayed although the settings are correct, set entry `LOADED=` to 1 in area [VSTA]. To start the wizard:

1. in zenon open menu `File`
   or press the shortcut `Alt+F12`

2. select the entry `Wizards...`

3. the selection dialog is opened

4. navigate to the `Analyzer` node

5. select the `Analyzer Export Wizard`

6. by clicking `OK`, you start the wizard
3.1.2 Start window

When opening the wizard, you receive an overview which lists all objects which can be exported.

The individual objects are configured for the export on individual tabs.

Click on button **Next** in order to navigate through the configuration (on page 10) of the export.

3.1.3 Configuration

At the export with the Analyzer Export Wizard all modules selected in tab **Data collection** (on page 12) are offered one after another for detail configuration. With click on tab **Next** you get to the next step.

You can select individual tabs directly by clicking on the title of the tab. With this it is possible to modify configuration steps at any time or to carry out a new export process with changed parameters without starting the wizard again.
The following tabs are available for export:

- Data collection (on page 12): Options for collection metadata
- Equipment modeling (on page 15): Export of the model groups
- Alarm/event classes (on page 17): Alarm/event classes
- Alarm/event groups (on page 19): Alarm/event groups
- Users (on page 21): Users
- Projects (on page 23): Projects
- Variables (on page 25): Variables
- Export overview (on page 28): Overview of the metadata which should be exported
- Finish (on page 30): Start of the export and result

Each tab is divided in three areas:
1. **Information area:**
   Notes which data can be configured on this tab and which possibilities you have.

2. **List field:** List of the objects which are available for export.

3. **Configuration area:** Possibility to edit data before the export.

**Data collection**

On this tab you define:

1. **Objects which should be exported**

2. **Database to which a link is made**

3. **General options for the export**
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data collection</td>
<td>Information and hints about current export processes.</td>
</tr>
<tr>
<td>Collection settings</td>
<td>Settings for data gathering</td>
</tr>
<tr>
<td>SCADA side</td>
<td>Settings for zenon</td>
</tr>
<tr>
<td></td>
<td>Define the elements which should be exported from the zenon workspace. The settings decide on the elements which should be exported. The exact adjustments are carried out on the respective tabs.</td>
</tr>
<tr>
<td>Equipment modeling</td>
<td>Active: Equipment models are exported from the global project.</td>
</tr>
<tr>
<td>Alarm/event classes</td>
<td>Active: Alarm/event classes are exported from the global project.</td>
</tr>
<tr>
<td>Alarm/event groups</td>
<td>Active: Alarm/event groups are exported from the global project.</td>
</tr>
<tr>
<td>Users</td>
<td>Active: Users are exported from the global project.</td>
</tr>
<tr>
<td>Projects</td>
<td>Active: The project list is exported.</td>
</tr>
<tr>
<td>Variables</td>
<td>Active: Variables are exported from the project. Only available if option Projects was activated.</td>
</tr>
<tr>
<td>Database side</td>
<td>Settings for the database. Defines computer, name and instance of the database. Its data sets are:</td>
</tr>
<tr>
<td></td>
<td>- Target of the export</td>
</tr>
<tr>
<td></td>
<td>- Source for the possible merging</td>
</tr>
<tr>
<td>DB host</td>
<td>Computer which hosts the database</td>
</tr>
<tr>
<td>DB name</td>
<td>Name of the database.</td>
</tr>
<tr>
<td>DB instance</td>
<td>Instance of the database.</td>
</tr>
<tr>
<td>Options</td>
<td>General options for the export.</td>
</tr>
<tr>
<td>Preselect the existing database</td>
<td>Active: All entries which are available both in zenon and in the database are preselected in the selection area of the main window.</td>
</tr>
<tr>
<td>objects in the collected meta</td>
<td></td>
</tr>
<tr>
<td>data sets</td>
<td></td>
</tr>
<tr>
<td>Suggest the changeable</td>
<td>Active: The editable values of the preselected entries originate</td>
</tr>
</tbody>
</table>
form the existing database objects

from the database.
These are then changed during the export.

Only available if Preselect the existing database objects in the collected meta data sets was activated.

Remove the positive database difference to the selected objects
Active: Data entries which are in the database but do not exist in zenon are deleted in the database.

Report the raised troubles
Active: Exceptions and error during the execution of the wizard are reported.

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back</td>
<td>Moves back a step during the execution of the wizard</td>
</tr>
<tr>
<td>Next</td>
<td>Click to move forth a step during the execution of the wizard.</td>
</tr>
</tbody>
</table>
| Finish       | Carries out the export
Is only available on tab Finish. |
| Cancel       | Cancels the execution of the wizard. |

When the wizard is closed, a dialog prompts whether the configuration should be saved.

- Click on Yes in order to write the configuration in the registry and to close the wizard. At the next start the wizard is opened with this configuration.
- Click on No closes the wizard and the configuration is not saved.
Equipment modeling

Configuration of the model group which should be exported from the global project.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equipment modeling</strong></td>
<td>Information and hints for the export</td>
</tr>
<tr>
<td><strong>Equipment modeling settings</strong></td>
<td>List field with selection possibility for model group. To select an entry, activate the check box in front of the entry.</td>
</tr>
<tr>
<td></td>
<td>In the list field the name, as it is stored in the database, is always displayed in the individual nodes. If the name was changed, the original name from the zenon project is displayed in brackets.</td>
</tr>
<tr>
<td><strong>Editing area</strong></td>
<td>Make it possible to edit selected elements in the selection dialog.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Name of the entry</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Additional description</td>
</tr>
<tr>
<td><strong>Continual edit</strong></td>
<td><strong>Active</strong>: Deactivates button Edit. Changes are applied without confirmation as soon as you leave an entry.</td>
</tr>
<tr>
<td></td>
<td><strong>Advantage</strong>: Quicker editing of several data.</td>
</tr>
<tr>
<td></td>
<td><strong>Disadvantage</strong>: Random undesired data change possible</td>
</tr>
<tr>
<td><strong>Edit/Apply</strong></td>
<td>Only available if property Continual Edit is not active.</td>
</tr>
<tr>
<td><strong>Edit</strong></td>
<td>Opens the dialog for the selected entry. Die button changes to Apply.</td>
</tr>
<tr>
<td></td>
<td>Changes must be accepted via Apply or discarded via Cancel.</td>
</tr>
<tr>
<td></td>
<td>If you click on another element in the selection field or you change the process step, a prompt is displayed:</td>
</tr>
<tr>
<td></td>
<td>▶ apply changed data: Button Yes</td>
</tr>
<tr>
<td></td>
<td>▶ discard: Button No</td>
</tr>
<tr>
<td></td>
<td>▶ Do not change element: Button Cancel</td>
</tr>
<tr>
<td><strong>Cancel</strong></td>
<td>Discards all changes for the selected element.</td>
</tr>
<tr>
<td><strong>NAVIGATION</strong></td>
<td><strong>Button</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Back</strong></td>
<td>Moves back a step during the execution of the wizard</td>
</tr>
</tbody>
</table>
Next | Click to move forth a step during the execution of the wizard.
---|---
Finish | Carries out the export
Is only available on tab Finish.
---|---
Cancel | Cancels the execution of the wizard.
When the wizard is closed, a dialog prompts whether the configuration should be saved.
- Click on Yes in order to write the configuration in the registry and to close the wizard. At the next start the wizard is opened with this configuration.
- Click on No closes the wizard and the configuration is not saved.

**Alarm/event classes**

Configuration of the alarm/event classes which should be exported from the global project.
### Parameters

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm/event classes</td>
<td>Information and hints for the export</td>
</tr>
<tr>
<td>Alarm/event classes settings</td>
<td>List field in which you can select alarm/event classes. To select an entry, activate the check box in front of the entry.</td>
</tr>
<tr>
<td>Editing area</td>
<td>Make it possible to edit selected elements in the selection dialog.</td>
</tr>
<tr>
<td>Name</td>
<td>Name of the entry.</td>
</tr>
<tr>
<td>Description</td>
<td>Additional description.</td>
</tr>
<tr>
<td>Color</td>
<td>Current color. Click to open the palette for selecting the color.</td>
</tr>
<tr>
<td>Continual edit</td>
<td><strong>Active:</strong> Deactivates button Edit. Changes are applied without confirmation as soon as you leave an entry.</td>
</tr>
<tr>
<td></td>
<td><strong>Advantage:</strong> Quicker editing of several data.</td>
</tr>
<tr>
<td></td>
<td><strong>Disadvantage:</strong> Random undesired data change possible</td>
</tr>
<tr>
<td>Edit/Apply</td>
<td>Only available if property Continual Edit is not active.</td>
</tr>
<tr>
<td></td>
<td><strong>Edit</strong> Opens the dialog for the selected entry. Die button changes to <strong>Apply</strong>.</td>
</tr>
<tr>
<td></td>
<td>Changes must be accepted via <strong>Apply</strong> or discarded via <strong>Cancel</strong>.</td>
</tr>
<tr>
<td></td>
<td>If you click on another element in the selection field or you change the process step, a prompt is displayed:</td>
</tr>
<tr>
<td></td>
<td>▶ apply changed data: Button <strong>Yes</strong></td>
</tr>
<tr>
<td></td>
<td>▶ discard: Button <strong>No</strong></td>
</tr>
<tr>
<td></td>
<td>▶ Do not change element: Button <strong>Cancel</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Advantage:</strong> More exact control of the data.</td>
</tr>
<tr>
<td></td>
<td><strong>Disadvantage:</strong> Slower editing of the data.</td>
</tr>
<tr>
<td>Cancel</td>
<td>Discards all changes for the selected element.</td>
</tr>
</tbody>
</table>

### NAVIGATION

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back</td>
<td>Moves back a step during the execution of the wizard</td>
</tr>
<tr>
<td>Next</td>
<td>Click to move forth a step during the execution of the wizard.</td>
</tr>
</tbody>
</table>
### Topics

<table>
<thead>
<tr>
<th>Finish</th>
<th>Carries out the export</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Is only available on tab <strong>Finish</strong>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cancel</th>
<th>Cancels the execution of the wizard.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>When the wizard is closed, a dialog prompts whether the configuration should be saved.</td>
</tr>
<tr>
<td></td>
<td>‣ Click on <strong>Yes</strong> in order to write the configuration in the registry and to close the wizard. At the next start the wizard is opened with this configuration.</td>
</tr>
<tr>
<td></td>
<td>‣ Click on <strong>No</strong> closes the wizard and the configuration is not saved.</td>
</tr>
</tbody>
</table>

### Alarm/Ereignis_Gruppen

Configuration of the alarm/event groups which should be exported from the global project.
**Parameters** | **Description**
---|---
**Alarm/event groups** | Information and hints for the export
**Alarm/event groups settings** | List field in which you can select alarm/event groups. To select an entry, activate the check box in front of the entry.
**Editing area** | Make it possible to edit selected elements in the selection dialog.
**Name** | Name of the entry
**Description** | Additional description
**Color** | Current color. Click to open the palette for selecting the color.
**Continual edit** | **Active:** Deactivates button Edit. Changes are applied without confirmation as soon as you leave an entry.
**Advantage:** Quicker editing of several data.
**Disadvantage:** Random undesired data change possible

**Edit/Apply** | Only available if property Continual Edit is not active.
**Edit** | Opens the dialog for the selected entry. The button changes to Apply.
Changes must be accepted via Apply or discarded via Cancel.
If you click on another element in the selection field or you change the process step, a prompt is displayed:

- apply changed data: Button Yes
- discard: Button No
- Do not change element: Button Cancel

**Advantage:** More exact control of the data.
**Disadvantage:** Slower editing of the data.

**Cancel** | Discards all changes for the selected element.

---

**NAVIGATION**

| **Button** | **Description** |
---|---
**Back** | Moves back a step during the execution of the wizard |
**Next** | Click to move forth a step during the execution of the wizard |
| **Finish** | Carries out the export  
Is only available on tab **Finish**. |
| **Cancel** | Cancels the execution of the wizard.  
When the wizard is closed, a dialog prompts whether the configuration should be saved.  
› Click on **Yes** in order to write the configuration in the registry and to close the wizard. At the next start the wizard is opened with this configuration.  
› Click on **No** closes the wizard and the configuration is not saved. |

**Users**

Configuration of the user which should be exported from the global project.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Users</td>
<td>Information and hints for the export</td>
</tr>
<tr>
<td>Users settings</td>
<td>List field with selection possibility for users. To select an entry, activate the check box in front of the entry.</td>
</tr>
<tr>
<td>Editing area</td>
<td>Make it possible to edit selected elements in the selection dialog.</td>
</tr>
<tr>
<td>Name</td>
<td>Name of the entry</td>
</tr>
<tr>
<td>Description</td>
<td>Additional description</td>
</tr>
<tr>
<td>Continual edit</td>
<td><strong>Active</strong>: Deactivates button Edit. Changes are applied without confirmation as soon as you leave an entry.</td>
</tr>
<tr>
<td></td>
<td><strong>Advantage</strong>: Quicker editing of several data.</td>
</tr>
<tr>
<td></td>
<td><strong>Disadvantage</strong>: Random undesired data change possible</td>
</tr>
<tr>
<td>Edit/Apply</td>
<td>Only available if property Continual Edit is not active.</td>
</tr>
<tr>
<td></td>
<td><strong>Edit</strong>: Opens the dialog for the selected entry. Die button changes to <strong>Apply</strong>.</td>
</tr>
<tr>
<td></td>
<td>Changes must be accepted via <strong>Apply</strong> or discarded via <strong>Cancel</strong>.</td>
</tr>
<tr>
<td></td>
<td>If you click on another element in the selection field or you change the process step, a prompt is displayed:</td>
</tr>
<tr>
<td></td>
<td>▶ apply changed data: Button <strong>Yes</strong></td>
</tr>
<tr>
<td></td>
<td>▶ discard: Button <strong>No</strong></td>
</tr>
<tr>
<td></td>
<td>▶ Do not change element: Button <strong>Cancel</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Advantage</strong>: More exact control of the data.</td>
</tr>
<tr>
<td></td>
<td><strong>Disadvantage</strong>: Slower editing of the data.</td>
</tr>
<tr>
<td>Cancel</td>
<td>Discards all changes for the selected element.</td>
</tr>
</tbody>
</table>

**NAVIGATION**

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back</td>
<td>Moves back a step during the execution of the wizard</td>
</tr>
<tr>
<td>Next</td>
<td>Click to move forth a step during the execution of the wizard.</td>
</tr>
<tr>
<td>Finish</td>
<td>Carries out the export</td>
</tr>
</tbody>
</table>
Is only available on tab **Finish**.

**Cancel**

Cancels the execution of the wizard.

When the wizard is closed, a dialog prompts whether the configuration should be saved.

- Click on **Yes** in order to write the configuration in the registry and to close the wizard. At the next start the wizard is opened with this configuration.
- Click on **No** closes the wizard and the configuration is not saved.

**Projects**

Configuration of the local projects which should be exported.
### Parameters

<table>
<thead>
<tr>
<th>Description</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information and hints for the export</td>
<td>Projects</td>
</tr>
<tr>
<td>List field with selection possibility for projects. To select an entry, activate the check box in front of the entry.</td>
<td>Projects settings</td>
</tr>
<tr>
<td>Make it possible to edit selected elements in the selection dialog. To select an entry, activate the check box in front of the entry.</td>
<td>Editing area</td>
</tr>
<tr>
<td>Name of the entry.</td>
<td>Name</td>
</tr>
<tr>
<td>Additional description.</td>
<td>Description</td>
</tr>
<tr>
<td>Address of the Server.</td>
<td>Server</td>
</tr>
<tr>
<td>Address of the Standby Server.</td>
<td>Standby</td>
</tr>
<tr>
<td>Active: Deactivates button Edit. Changes are applied without confirmation as soon as you leave an entry. Advantage: Quicker editing of several data. Disadvantage: Random undesired data change possible</td>
<td>Continual edit</td>
</tr>
<tr>
<td>Only available if property Continual Edit is not active. Edit Opens the dialog for the selected entry. Die button changes to Apply. Changes must be accepted via Apply or discarded via Cancel. If you click on another element in the selection field or you change the process step, a prompt is displayed: apply changed data: Button Yes discard: Button No Do not change element: Button Cancel Advantage: More exact control of the data. Disadvantage: Slower editing of the data.</td>
<td>Edit/Apply</td>
</tr>
<tr>
<td>Discards all changes for the selected element.</td>
<td>Cancel</td>
</tr>
</tbody>
</table>

### Navigation

<table>
<thead>
<tr>
<th>Description</th>
<th>Button</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Back</td>
<td>Moves back a step during the execution of the wizard</td>
</tr>
<tr>
<td>-----------------------</td>
<td>------------------------------------------------------</td>
</tr>
<tr>
<td>Next</td>
<td>Click to move forth a step during the execution of the wizard.</td>
</tr>
<tr>
<td>Finish</td>
<td>Carries out the export</td>
</tr>
<tr>
<td></td>
<td>Is only available on tab Finish.</td>
</tr>
<tr>
<td>Cancel</td>
<td>Cancels the execution of the wizard.</td>
</tr>
<tr>
<td></td>
<td>When the wizard is closed, a dialog prompts whether the configuration should be saved.</td>
</tr>
<tr>
<td></td>
<td>‣ Click on Yes in order to write the configuration in the registry and to close the wizard. At the next start the wizard is opened with this configuration.</td>
</tr>
<tr>
<td></td>
<td>‣ Click on No closes the wizard and the configuration is not saved.</td>
</tr>
</tbody>
</table>

**Variables**

Configuration of the variables from the local project which should be exported.
At the selection of the variables you can pre-filter the displayed entries in the selection window in accordance with the projects:
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Variables</strong></td>
<td>Information and hints for the export</td>
</tr>
<tr>
<td><strong>Variables settings</strong></td>
<td>List field with selection possibility for projects. To select an entry, activate the check box in front of the entry.</td>
</tr>
<tr>
<td><strong>Project</strong></td>
<td>Drop-down list in order to select projects for variable selection. Only the variables of the selected project are displayed. You can call up several projects one after the other in order to select their variables. The variable selection is displayed on tab Export overview (on page 28).</td>
</tr>
<tr>
<td><strong>Show variables of selected equipment modeling nodes only</strong></td>
<td>Active: Only variables are displayed which are part of the selected Equipment model (on page 15).</td>
</tr>
<tr>
<td><strong>Editing area</strong></td>
<td>Make it possible to edit selected elements in the selection dialog.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Name of the entry.</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Additional description.</td>
</tr>
<tr>
<td><strong>Continual edit</strong></td>
<td>Active: Deactivates button Edit. Changes are applied without confirmation as soon as you leave an entry. Advantage: Quicker editing of several data. Disadvantage: Random undesired data change possible</td>
</tr>
</tbody>
</table>
| **Edit/Apply**                   | Only available if property Continual Edit is not active. Edit Opens the dialog for the selected entry. Die button changes to Apply. Changes must be accepted via Apply or discarded via Cancel. If you click on another element in the selection field or you change the process step, a prompt is displayed:  

- apply changed data: Button Yes  
- discard: Button No  
- Do not change element: Button Cancel  
  
  Advantage: More exact control of the data. Disadvantage: Slower editing of the data. |
### NAVIGATION

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back</td>
<td>Moves back a step during the execution of the wizard.</td>
</tr>
<tr>
<td>Next</td>
<td>Click to move forth a step during the execution of the wizard.</td>
</tr>
</tbody>
</table>
| Finish | Carries out the export.  
Is only available on tab Finish. |
| Cancel | Cancels the execution of the wizard.  
When the wizard is closed, a dialog prompts whether the configuration should be saved.  
- Click on Yes in order to write the configuration in the registry and to close the wizard. At the next start the wizard is opened with this configuration.  
- Click on No closes the wizard and the configuration is not saved. |

### Export overview

This tab lists the elements selected for the export.

The following entries are created by the wizard and cannot be changed by the user.

- Status texts
- Variable to equipment modeling mappings
Equipment modeling to operating shift mappings

### NAVIGATION

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back</td>
<td>Moves back a step during the execution of the wizard</td>
</tr>
<tr>
<td>Next</td>
<td>Click to move forth a step during the execution of the wizard.</td>
</tr>
<tr>
<td>Finish</td>
<td>Carries out the export  &lt;br&gt;(Is only available on tab Finish.)</td>
</tr>
<tr>
<td>Cancel</td>
<td>Cancels the execution of the wizard.  &lt;br&gt;When the wizard is closed, a dialog prompts whether the configuration should be saved.  &lt;br&gt;  &gt; Click on Yes in order to write the configuration in the registry and to close the wizard. At the next start the wizard is opened with this configuration.  &lt;br&gt;  &gt; Click on No closes the wizard and the configuration is not saved.</td>
</tr>
</tbody>
</table>
CHANGE CONFIGURATION
To change entries before the export:

- click on button Back
  or
- select the tab directly

EXPORT DATA
To confirm all settings and to export the data:

- click on button New
- click on button Finish on tab Finish

Note: Depending on the Settings (on page 12) the export can also lead to delete data in the database.

CARRY OUT ADDITIONAL EXPORTS
To configure an additional export and to start it:

- click on button Back or directly select the tab
- newly configure the desired export steps
- click on button Finish on tab Finish

Finish
To export the configured data:
1. on tab Finish click on

2. the export is started
3. in the output window the exported elements are documented

4. click on Cancel to close the wizard
   or newly configure the tab in order to prepare another export

3.1.4 Exit wizard

To close the wizard:

- click on button Close or Cancel
- a dialog prompts whether the configuration should be saved
  - Click on Yes in order to write the configuration in the registry and to close the wizard.
    At the next start the wizard is opened with this configuration.
• Click on no closes the wizard and the configuration is not saved.

3.2 Import - Export

Wizards for export and import of data.

3.2.1 FactoryLink import wizard

The FactoryLink import wizard is an assistant that supports the user when porting a FactoryLink project to zenon.

⚠️ Attention

The zenon Editor language should be set to English, in order to ensure that the FactoryLink project is imported with as few errors as possible.
Export of project data from FactoryLink

FactoryLink project data is exported via the Menu Display - Library Converter in the ClientBuilder application. Here, the desired libraries all project data to be converted must be selected.

⚠️ Attention

ASCII must be selected as the target format.

In addition, there must be access to all bitmaps used in the project. All files must remain in the file structure that was created by FactoryLink.

Import of the project

A selection dialog is displayed using the File - Wizards... menu, which displays all wizards available in zenon. The FactoryLink Import wizard is in the Wizards - Export/import - FactoryLink Import Wizard group.

Welcome

On the first page of the wizards, the process and the following pages of the wizard are briefly explained.

Preparation

Basic information for executing the wizard is available on this page. To exclude the possibility of two names of screens and templates when importing, it is recommended that you create a new project in zenon. The zenon dialog to create a new project can be called up by clicking on 'Create empty project' if the project that is currently loaded is not to be empty.

⚠️ Attention

After creating a new project, the zenon wizard selection dialog opens automatically. This selection dialog must be closed, because the FactoryLink Import Wizard remains active in the background.
Tag selection

On this page, the file imltags.asc of the FactoryLink project to be imported must be selected. All of the project's variable information is imported into zenon by clicking 'Import!'. The wizard opens the file with the variable information and reads names, types and descriptions of the variables. The internal driver is used as a standard driver in zenon.

Info

After the variables have been imported, the drivers used in zenon can be changed via Properties -> Addressing -> Driver Connection -> Driver.

Mimic selection

On this page, all relevant folders in which picture data, templates, bitmaps and project symbols are located must be selected.

In addition to normal import as a picture symbol, there is also the possibility to create a symbol in the wizard. In doing so, the wizard creates a picture with all symbols contained in the project. These symbols must now be manually copied into the local symbol library of the zenon project. If the project contains FactoryLink animations (for example Symbols Bit Group), in which variables with symbols are linked, the wizard can transfer these animations to a zenon combined element.

Events

A summary of the conversations is shown on this page. The list can be filtered for certain event if required.

List of importable objects

- Import of variable names, description and types, transfer of FactoryLink connections to the zenon internal driver
- The import and creation of FactoryLink templates and mimics.
- Import of FactoryLink Bitmaps in the picture folder of the zenon project manager
- Import and creation of static picture elements:
  - Rectangle
3.2.2 PDiag import wizard

The zenon PDiag import wizard supports PDiag messages during import. This wizard can also serve as a template for your own expansions in this respect.

The PDiag import wizard is only available in English.
**Requirements**

The wizard imports an XML file exported from the process diagnosis (PDiag) Simatic module. This export can be carried out with the menu item Process diagnosis | Export in Simatic Manager.

The XML file created in this way is imported with the wizard in zenon. In doing so, variables that are based on the S7-TCP driver, of driver object type Alarm S are created. Each message and each accompanying value corresponds to a zenon variable.

Only UINT variables are imported as accompanying values. In doing so, the message text is analyzed for the Simatic PDiag identifier "@1X%2d@", "@1X%3d@" und "@1X%4d@" and adapted for zenon accordingly. It is also possible to use the language table for dynamic texts. In doing so, the texts outside the wizard are to be transferred to the zenon.

This wizard also imports S7 graph messages, which are automatically generated and thus also contained in the XML file.

**Settings**

To start the wizard:

1. Select Wizards... in the File menu.

   Alternatively: The key combination Alt+F12

2. The dialog to select the zenon wizards is opened

3. Open the Export/Import nodes

4. Select PDIAG wizard

The wizard leads to, via the

- Welcome (on page 38)
- Settings (on page 39)
- Finish (on page 41)

tabs, to the import of an XML file.
Welcome

The Welcome tab contains a short explanation of how the wizard works and what it requires.

To get to the Settings (on page 39) tab, click on the Settings menu or on the arrow on the bottom left.
**Settings**

You can adjust the import settings in the **Settings** tab.
<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver</td>
<td>Selection of the S7-TCP driver from the active project for which the import is to be carried out.</td>
</tr>
<tr>
<td>PDIAG XML file</td>
<td>Selection of the XML file to be imported.</td>
</tr>
<tr>
<td>Identification</td>
<td>Optional entry for variable identification. This entry can be filtered in the variable list.</td>
</tr>
<tr>
<td>Net address</td>
<td>Defines the net address for the zenon variable addressing. You can see the valid net address in the driver configuration.</td>
</tr>
<tr>
<td>Alarm group</td>
<td>Sets the alarm/event group of the messages to be imported.</td>
</tr>
<tr>
<td></td>
<td><strong>Attention</strong>: The wizard does not create alarm/event classes in zenon independently. These must be manually created before the import.</td>
</tr>
<tr>
<td>In IPA</td>
<td><strong>Active</strong>: Sets the <code>Save in IPA database</code> property for the variables. This transfers the messages to the industrial performance analyzer.</td>
</tr>
<tr>
<td>Get Alarm Class</td>
<td><strong>Active</strong>: The message priority set in Simatic Manager is interpreted as zenon alarm/event class.</td>
</tr>
<tr>
<td></td>
<td><strong>Attention</strong>: The wizard does not create alarm/event groups in zenon independently. These must be manually created before the import.</td>
</tr>
</tbody>
</table>

The import is started with **Finish**. This button is only active in the Finish (on page 41) tab. Click on **Finish** in the menu or on the arrow at the bottom left.
Finish

To start the import, click on the Import button.
Import of messages

Notices are given during the import:

After the import has finished, there is a note stating how many variables were imported.

IMPORTANT MESSAGES

<table>
<thead>
<tr>
<th>Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>message text too long</td>
<td>The alarm text is too long and will be cut to the valid length in zenon.</td>
</tr>
<tr>
<td>creating attribute variable for dynamic limit text</td>
<td>In addition to the message variable, an accompanying value variable for the dynamic limit value text is created.</td>
</tr>
</tbody>
</table>
3.2.3 WinCC Import Wizard

The WinCC Import Wizard imports selected parts of an existing WinCC project to the currently loaded zenon project. The import of the WinCC project data is carried out using two programs:

- WinCC Graphics Converter (on page 46): exports WinCC screens, frames and symbols from WinCC in an XML file
- WinCC Import Wizard (on page 49): imports
  - Data blocks (structure tags), tags, alarms and archives directly
  - Screens, frames and symbols via XML files which were previously created with the help of the WinCC Graphics Converter (on page 46)

Installation

To execute the WinCC Import Wizard, you must first install all components.

Info

Note that zenon should NOT be installed on the same computer as WinCC.

INSTALLATION WINCC GRAPHICS CONVERTER

In order to access the WinCC information, the WinCC Graphics Converter must be installed on the computer on which the WinCC project runs. The program is located on the zenon installation medium in folder \Additional Software\WinCC Graphics Converter.
After the installation you can find the converting tool for different WinCC versions under Start - All Programs - COPA-DATA - WinCC Graphics Converter. Always start the tool for matching version.

Info

For using the converter, .NET Framework 3.5 must be installed. When installing the converter, it is checked whether it is available. If the framework is missing, the installation is canceled. In this case first install .NET Framework 3.5 and then start the installation of the converter again.

INSTALLATION OF THE WIZARD FOR ZENON 7.0 AND HIGHER

The wizard is automatically installed together with the zenon Editor. No separate settings are needed. You can start the wizard right away in the zenon Editor under File - Wizards... and there under Export/Import.

INSTALLATION OF THE WIZARD FOR ZENON 6.51

As the wizard is not a part of 6.51 SP0, you must carry out the following steps for the installation:

- Install at least Build 6 of zenon 6.51. You can request Build 6 from your distributor or from the COPA-DATA Support (mailto:support@copadata.com).
- Install the wizard together with the WinCC Graphics Converter. This setup installs the WinCC Graphics Converter tool and also the wizard if zenon 6.51 SP0 is installed. You can request the setup from your distributor or from the COPA-DATA Support (mailto:support@copadata.com).
After the installation, start the zenon Editor. The dialog for updating the wizard is displayed. Via Start update the wizard is added to the VSTA workspace.

If you want to carry out this step later, you can return to this dialog in the zenon Editor via menu File - Update wizards...

Start the VSTA Editor in the zenon Editor via menu File - Open VSTA Editor... and select node References in window Project Explorer. Carry out menu item Add Reference.. in the context menu in order to add two missing references:

- MSDASC: In the Add Reference dialog click on tab COM and add the component Microsoft OLE DB Service Component 1.0 Type Library to the project.
• ADODB: In the Add Reference dialog click on tab **Browse**. Navigate to the folder C:\Program Files (x86)\Microsoft.NET\Primary Interop Assemblies and **select file adodb.dll**.

  ![ADODB Add Reference dialog](image)

  ![ADODB Browse folder](image)

- In window **Project Explorer** you can now select node **WorkspaceAddin** and compile the add-in via menu item **Build** in the context menu.

After the compiling was successful, the wizard is available in the zeron Editor under **File - Wizards...** and there under Export/Import.

**WinCC Graphics Converter**

The **WinCC Graphics Converter** makes it possible to select screens, frames and symbols in WinCC projects and export them as XML files.

**Info**

At the moment XML files can be created from WinCC projects of versions 7.0 and 7.0 SP1.

46
Welcome

With the help of the WinCC Graphics Converter you can convert WinCC graphics files (PDL) to an XML format which the WinCC Import Wizard can read. Existing graphics information are saved as PNG files and WMF files together with the XML files and stored in a selected folder.

To execute the converter:

1. click on Start
2. navigate to COPA-DATA -> WinCC Graphics Converter
3. start the WinCC Graphics Converter
4. follow the instructions of the wizard

Select .pdl files

On this tab you select the PDL files which should be exported from the WinCC project. To do this:

1. click on button Select .pdl files
2. navigate to the project folder which contains the PDL files

Note: In order that the files can be selected, the WinCC project must be loaded on the computer!
3. select the desired files

4. all selected PDL files are displayed in the preview window

Select output folder

On this tab you select the folder in which the export files should be saved. To do this:

1. click on button **Select output folder**

2. navigate to the folder in which the export files should be saved

3. **Note:** You can create a new folder in the selection dialog
**Convert**

On this tab you can carry out the conversion.

After the successful export copy the folder to the computer with the zenon project in which the data should be imported or make sure that the computer with the zenon project has access to the export folder.

**WinCC Import Wizard**

The WinCC Import Wizard is started via the wizard dialog of the Editor and can be used to import the following WinCC elements:

- Import of the Screens (on page 61) (the XML files created with the WinCC Graphics Converter (on page 46) are converted to frames, screens and symbols in zenon)
- Import of the WinCC Tags (on page 56) (only S7 TCP)
- Import of the WinCC Structure Tags (on page 54) (only S7 TCP)
- Import Alarm Limits (on page 57)
- Import Archive Tags (on page 59)

**STARTING THE WIZARD**

For wizards to be displayed, the settings for VBA and/or VSTA must be set correctly in file *zenon6.inis:

```ini
[VBA]
EIN=1
[VSTA]
ON=1
```

If VSTA wizards are not displayed although the settings are correct, set entry `LOADED=` to 1 in area [VSTA].

To start the wizard:

1. in zenon open menu **File** or press the shortcut **Alt+F12**
2. select the entry **Wizards...**
3. the selection dialog is opened

4. navigate to the Export/Import node

5. select the WinCC Import Wizard

6. by clicking OK, you start the wizard

The wizard is divided into areas:

- Welcome (on page 51): Overview over the wizard.
- Settings (on page 52): Settings for the connection to the WinCC project. After the connection has been established successfully, the tabs for the direct import are displayed:
  - Data Blocks (on page 54): Structure Tags from WinCC
  - Tags (on page 56): Tags from WinCC
  - Alarm Limits (on page 57): Alarm classes and alarms from WinCC
  - Archive Tags (on page 59): Archive files from WinCC
- Screens (on page 61): Import of the screens from WinCC via the WinCC Graphics Converter (on page 46)
Welcome

The start page of the wizard informs you about all other import steps:

The direct import of data is only possible after you have configured the connection to the WinCC project on tab Settings.
**Settings**

On this tab you configure the connection to the WinCC project whose data should be imported.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WinCC DB connection</td>
<td>Configuration of the connection to the WinCC database.</td>
</tr>
<tr>
<td>Connected with</td>
<td>Display of the active connection.</td>
</tr>
<tr>
<td>Connect</td>
<td>Establishes a connection.</td>
</tr>
<tr>
<td>New connection</td>
<td>Opens the dialog for configuring a new connection.</td>
</tr>
<tr>
<td>Driver selection (S7 TCP)</td>
<td>Configuration of the zenon drivers.</td>
</tr>
<tr>
<td>Driver</td>
<td>Selection of a zenon driver from the drop-down list.</td>
</tr>
<tr>
<td>Create new driver</td>
<td>Opens the dialog for creating a new driver.</td>
</tr>
</tbody>
</table>

**Attention**

In order that the connection can be established, the WinCC project must be active or opened in the WinCC Explorer on the PC with which the connection should be established.

**CONFIGURATION OF THE CONNECTION**

To establish a connection:

1. click on button **New connection**
2. The dialog for the connection settings is opened

![Diagram of connection settings dialog]

3. On tab **Provider** select the provider Microsoft OLE DB Provider for SQL Server

4. On tab **Connection**:  
   a) For **server name** enter the instance of the SQL server in which the WinCC project is located; e.g.: HOSTNAME\WINCC  
      **Important**: The WinCC SQL server instance (sqlsrv.exe) must be enabled in the firewall.
   b) For **logon information** enter your access data. At first you must create the access data with the help of SQL Server Management Studio in the SQL server instance.  
      **Important**: Activate option **Allow saving password**
   c) For **database** select the WinCC Editor project. This is the database name without the suffix 
      **Note**: The project must be loaded and running in the WinCC Editor. Otherwise the project is not available in the database server.
   d) Test the connection

5. Close the configuration dialog with **OK**

6. After that you can establish the connection to the WinCC project in the wizard via button **Connect**.
7. select a zenon driver

After a successful connection and the selection of a zenon driver, the tabs for the direct import are displayed.

Data Blocks

On this tab you select the data blocks which are displayed in the WinCC Explorer under Data Blocks and then imported as data types to zenon.
The WinCC data blocks are grouped according to drivers and are displayed sorted according to block type and name.

To import data blocks:

1. select the desired data blocks
2. click on Import Data Blocks

RESULT

Data blocks in WinCC:
Data types in zenon

Tags

On this tab tags (S7) are selected and imported as zenon variables, which are displayed as Tag Management in the WinCC Explorer. The export can be carried out directly to zenon or to a CSV file.

To import tags:

1. select the desired tags
2. click on Import Tags or Import to CSV

RESULT

Tags in WinCC:
Variables in zenon:

![Image of Variables in zenon]

**Alarm Limits**

On this tab alarm classes and limits are imported:

- **Import Alarm Classes**: Imports alarm classes to an existing global project.
- **Import Alarms**: Imports alarm classes and groups to the local zenon project and creates variables for the limits.

**IMPORT ALARM CLASSES**

Imports alarm classes from WinCC to a global project in zenon. The global project must already exist and must be active in zenon.

![Image of Import Alarm Classes]

To import alarm classes:

1. select the desired alarm classes
2. click on Import Alarm Classes
RESULT

Alarm classes in WinCC:

Alarm classes in zenon:

IMPORT ALARMS

With this kind of import all alarm classes and alarm groups are imported to the zenon project. The WinCC limit texts are replaced by limit variables.

To import alarms:

1. select the desired alarms
2. click on Import Alarms
RESULT

Alarms in WinCC:

Alarms in zenon:

Archive Tags

On this tab tags which are entered under **Tag Logging** in the WinCC Explorer can be selected and imported. The import is carried out in one of the two newly created archives **BINARY** and **ANALOG** in the zenon project.

⚠️ **Attention**

*Tags are only created in the zenon archive if they were imported as Tags beforehand.*
To import Archive Tags:

1. select the desired Archive Tags
2. click on Import Archiv Tags

RESULT

Archive Tags in WinCC:

<table>
<thead>
<tr>
<th>...</th>
<th>...</th>
<th>...</th>
</tr>
</thead>
<tbody>
<tr>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
</tbody>
</table>

Archives in zenon:
## Screens

On this tab you can import the XML files which were created with the WinCC Graphics Converter (on page 46) to the active zenon project. In zenon frames, screens and standard screen elements are created based on the information stored in the XML files and based on the WMF and PNG files which are stored in the directory.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of files</td>
<td>Shows all existing files in the selected folder.</td>
</tr>
<tr>
<td>Select Folder</td>
<td>Opens the dialog for selecting the folder with the import files.</td>
</tr>
<tr>
<td>Select All</td>
<td>Selects all existing files in the window.</td>
</tr>
<tr>
<td>Import XML</td>
<td>Starts the import.</td>
</tr>
</tbody>
</table>

To import screens:

1. select the desired XML files
2. click on Import XML
RESULT

Screens in WinCC:

Screens in zenon:

**WHICH WINCC SCREEN ELEMENTS ARE AUTOMATICALLY CREATED IN THE ZENON EDITOR?**

**STANDARD SCREEN ELEMENTS**

- Line
- Polygon
- Polyline
- Ellipse
- Circle
Ellipse segment
Pie segment
Ellipse arc
Circular arc
Rectangle
Rounded rectangle
Static Text

**TUBE OBJECTS**
- Polygon tube
- T-piece
- Double T-piece
- Tube bend

**SMART OBJECTS**
- I/O field
- Graphic object
- Windows objects
- Button

For all other WinCC objects a placeholder is created in zenon.

### 3.2.4 XML export wizard VSTA

You export all desired modules of a project into a folder of your choice with the XML export wizard. An independent XML file is created for each module.

The wizard is only available in English.
Start the wizard

To start the wizard:

- Click on File -> Wizards...
  - or press the short cut Alt+F12
- The selection window with the available wizards opens
- Select the Export/import folder

- Select XML export wizard there

- Click on OK

- The wizard starts with the welcome page and displays:
• brief instructions
• the zenon version
• the name of the project from which the export is taking place
• Project GUID
• Project path

The cursor key leads you step by step through the wizard

• Alternatively, clicking a tab opens the respective setting
• To activate the Export button, the Export XML progress page must be open
Select XML files

Select which module of the project is to be imported:

- Click on Select Directory to define the folder for export
Select the modules and elements that are to be exported by ticking the checkboxes (scroll down if necessary)

Export
To start the export:

- click on the Export button
- the desired modules are exported
- The output window displays which modules are exported with what success
The wizard closes automatically three seconds after the end of the export.

3.2.5 XML Import Wizard

This wizard helps with importing variables, functions, screens and scripts from a XML file.

⚠️ Attention

This wizard does not support distributed engineering and is not available in multiuser projects.

3.3 Language table

Wizards for language switching.
3.3.1 Language Text Wizard

This wizard searches for texts and keywords and generates text lists.

This Wizard makes keywords out of texts.

The project is searched for texts and the found texts are replaced by keywords (i.e. a “@” is added in front of the texts).

The project is scanned for keywords. These keywords are inserted into the language table.

3.4 Pharmaceutical

Wizards for the pharmaceutical industry.

3.4.1 Pharmaceutical Wizard

The pharmaceutical wizard enables the management of validated projects for the pharmaceutical industry. It summarizes the relevant settings necessary for a Good Manufacturing Process (GMP) project. These settings can be managed and changed in the wizard. The settings are loaded into the wizard either via an existing project or via configuration files.

The following settings are managed:

- General project settings
- User administration
- User groups
- Settings for the Chronologic Event List
- Settings for the Alarm Message List
- XML template
Engineered settings in the wizard can be:

- written back to the active project
- saved in a new project
- saved to a special configuration file

These configuration files created in the wizard can be used over and over again and can be enhanced. However, they can only be read and edited with the wizard.

**Start wizard**

To start the wizard:

1. Click on *File-* > *Wizards...*
   
   or press the short cut **Alt+F12**

2. The selection window with the available wizards opens

3. Select the **Pharmaceutical** folder

4. Select the **Pharmaceutical Wizard** there

5. Click on **OK**

6. The wizard starts with the welcome page
Welcome

Tab Welcome informs you about performance and use of the wizard.

The navigation through the wizard is done by clicking on the individual tabs or step by step by clicking on the arrow keys.

Click on cancel to close the wizard. All changes made to a file or project since the last saving are discarded.

Settings

In this tab:

- Settings are loaded
- Project descriptions are adapted
### Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration</td>
<td>Definition which project is edited.</td>
</tr>
<tr>
<td>Load from active project</td>
<td>Loads the settings of the active project in the workspace into the wizard.</td>
</tr>
<tr>
<td>Load from configuration file</td>
<td>Loads data from a saved configuration file (<em>cof</em>). The file is selected from the list. The list displays all available configuration files in the selected folder (<em>Select directory</em>).</td>
</tr>
<tr>
<td></td>
<td><strong>Info</strong>: The configuration files can only be read, created and edited with the wizard.</td>
</tr>
<tr>
<td>Select directory</td>
<td>Opens file selection dialog in order to select the folder in which the desired configuration files (<em>cof</em>) are available. They are displayed in the list below the button.</td>
</tr>
<tr>
<td>Templates</td>
<td>Settings for XML and XRS templates.</td>
</tr>
<tr>
<td>Project description</td>
<td>Information about the project as defined in property <em>Project description</em> of the dialog.</td>
</tr>
<tr>
<td></td>
<td>It is taken over by the loaded project and can be edited. For checking purposes all changes are displayed on tab Finish (on page 105).</td>
</tr>
<tr>
<td>Author</td>
<td>Author of the project.</td>
</tr>
<tr>
<td>Manager</td>
<td>Project manager.</td>
</tr>
<tr>
<td>Company</td>
<td>Company.</td>
</tr>
<tr>
<td>Comment</td>
<td>Comment.</td>
</tr>
</tbody>
</table>

### Project properties

Settings for:

- Network
- Authorization in the network
- History of changes
### Parameters

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Network</strong></td>
</tr>
</tbody>
</table>

Properties for the use of the project in a network.

Read more in the online manual

This property is available in VBA (with class name) and in the XML export (without class name) under: ""

| **Active** |

Network active

Active: The project is used in a network. A server has to be defined.

Inactive: The project is a standalone project.

Default: inactive.

Read more in the online manual

This property is available in VBA (with class name) and in the XML export (without class name) under: ""

| **Server name** |

Server

Only available if property Network active is active.

Computer which establishes the connection to the hardware for network projects and which manages the project data. The clients connect to this computer.

**Hint name:** The IP address is not sufficient; the name of the computer must be entered. "localhost" must not be used as name for the Server.

If the name is changed, it cannot be reloaded. It is updated only after the Runtime has been restarted.
<table>
<thead>
<tr>
<th>More in the online help</th>
</tr>
</thead>
<tbody>
<tr>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
</tbody>
</table>
**Standby name**

**Active:** The project is used in a network. A server has to be defined.  
**Inactive:** The project is a standalone project.  
**Default:** inactive.

Read more in the online manual

This property is available in VBA (with class name) and in the XML export (without class name) under: ""

---

**Redundancy type**

Only available if a computer has been specified in property Standby.

Zenon supports two types of redundancy:

**Software redundancy:** The system consists of one PLC and two redundant control system computers. Both computers must have a connection to the PLC. Both computers communicate with the control and at the same time keep the data from the control updated. The communication to the control is managed by the computer which is the server. The server communicates bidirectionally, the standby communicates unidirectionally. If the server crashes, the standby server takes over the bidirectional communication with the PLC.

**Hardware redundancy:** The system consists of two redundant PLCs and two redundant control system computers. Each server communicates bidirectionally with one PLC. Both computers and both PLCs are synchronizing their data. If one component in the first system crashes, the second system takes over.

**Default:** Software redundancy

More in the online help

This property is available in VBA (with class name) and in the XML export (without class name) under: ""
<table>
<thead>
<tr>
<th><strong>Network authorization</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Authorization</td>
<td>Properties for the authorization in the network.</td>
</tr>
<tr>
<td></td>
<td>Read more in the online manual</td>
</tr>
<tr>
<td></td>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: “”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Active</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Authorization in network active</td>
<td>Only available if property Network active is active.</td>
</tr>
<tr>
<td></td>
<td>The authorization in the network makes sure that in the network only one station at a time can carry out active operations (e.g. change set values). Passiv, reading access is always possible regardless of the option.</td>
</tr>
<tr>
<td></td>
<td><strong>Active:</strong> Only on computer can operate the project at a time (e.g. acknowledge alarms, write set values).</td>
</tr>
<tr>
<td></td>
<td><strong>Inactive:</strong> Several computers can operate the project at the same time.</td>
</tr>
<tr>
<td></td>
<td>Default: inactive.</td>
</tr>
<tr>
<td></td>
<td>More in the online help</td>
</tr>
<tr>
<td></td>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: “”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Timeout for request [s]</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeout for request [s]</td>
<td>Only available if property Authorization in network active is active.</td>
</tr>
<tr>
<td></td>
<td>If the authorization in the network is blocked by a station, it can be requested by another computer. Within the time limit defined here</td>
</tr>
</tbody>
</table>
| | the request must be answered. After the time expires without an answer, the requesting station automatically receives the authorization.  

More in the online help  
This property is available in VBA (with class name) and in the XML export (without class name) under: "" |
<table>
<thead>
<tr>
<th><strong>Timeout for acknowledgement [s]</strong></th>
<th><strong>Timeout for authorization [s]</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Only available if property</strong> Authorization in network active is active. Within this time the computer (Client) which has the authorization must report to the Server. If this does not happen, the authorization is released automatically. <strong>Attention:</strong> This value must be smaller than the time defined in property Timeout [s]. More in the online help. This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>History of changes</strong></th>
<th><strong>History of changes</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Properties for the history of changes.</strong> Read more in the online manual. This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Active</strong></th>
<th><strong>History of changes active</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active:</strong> Changes in the project are logged. <strong>Inactive:</strong> Changes in the project are not logged. <strong>Default:</strong> inactive. Read more in the online manual. This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
<td></td>
</tr>
</tbody>
</table>
**Detailing level**

Only available if property **History of changes active** is active.

Selection of details levels from drop-down list.

- **Object**: Only the object names of the changed objects are logged. Details concerning properties and their values are not displayed in the History of changes.
- **Properties**: Additionally to the object names the changed properties and the new values are displayed in the history of changes.
- **Value changes**: This setting causes the most detail level of logging. Not only the new value of a property is displayed but also the old one. This makes a complete traceability of the changes of values possible.

**Default**: Properties

**More in the online help**

This property is available in VBA (with class name) and in the XML export (without class name) under: ""
User administration

Settings for the user administration:
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>User administration</td>
<td>User administration&lt;br&gt;&lt;br&gt;Project specific properties for the user administration.&lt;br&gt;&lt;br&gt;Read more in the online manual&lt;br&gt;&lt;br&gt;This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
<tr>
<td>Delete users</td>
<td>Deleting users&lt;br&gt;&lt;br&gt;Active: It is allowed to delete users in the Runtime.&lt;br&gt;Inactive: It is only allowed to mark users as deleted. The users stay in the list of users but are no longer valid for Runtime operation (according to FDA).&lt;br&gt;Default: active.&lt;br&gt;&lt;br&gt;Read more in the online manual&lt;br&gt;&lt;br&gt;This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
<tr>
<td>Minimum password length</td>
<td>Min. password length&lt;br&gt;&lt;br&gt;Number of characters, a password must have as a minimum.&lt;br&gt;Minimum: 0.&lt;br&gt;Maximum: 20.&lt;br&gt;Default: 6.&lt;br&gt;&lt;br&gt;Read more in the online manual&lt;br&gt;&lt;br&gt;This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
<tr>
<td>Topic</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| **Period of password validity [days]** | Password - period of validity [d]  
Enter a time period (in days) defining how long a password should stay valid. After the time expired, you must enter a new password.  
Minimum: 0 - The password never expires and need not be renewed. For this setting the value 2147483647 is written to system driver variable "Days until password expires".  
Maximum: 4294967295.  
Default: 0.  
**Attention:** For productions according to the FDA guidelines entry 0 is not allowed as the rules of the FDA demand a cyclic change of the password.  
More in the online help  
This property is available in VBA (with class name) and in the XML export (without class name) under: "" |
| **Number of invalid user name inputs** | Min. password length  
Number of characters, a password must have as a minimum.  
Minimum: 0.  
Maximum: 20.  
Default: 6.  
Read more in the online manual  
This property is available in VBA (with class name) and in the XML export (without class name) under: "" |
| **Number of invalid password inputs** | Max. password error  
|
| Number of invalid password inputs. If this number is exceeded, the according user is locked. An according entry in the Chronologic Event List (CEL) is generated. He can only be unlocked by an administrator. Minimum: 0. Maximum: 65535. Default: 3. 
|---|
| Read more in the online manual 
This property is available in VBA (with class name) and in the XML export (without class name) under: ""
<table>
<thead>
<tr>
<th>User administration storage</th>
<th>Saving the user administration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected user storage</td>
<td>Select where you want to save the user administration:</td>
</tr>
<tr>
<td></td>
<td>▶ Project</td>
</tr>
<tr>
<td></td>
<td>▶ Active Directory (AD)</td>
</tr>
<tr>
<td></td>
<td>▶ Active Directory Application Mode (ADAM)</td>
</tr>
<tr>
<td>ADAM connection string</td>
<td>ADAM/AD-LDS connection</td>
</tr>
<tr>
<td></td>
<td>Connection path to ADAM or AD LDS.</td>
</tr>
<tr>
<td></td>
<td>You must enter the connection path in the following form: [PC name]:[port]/[organization]</td>
</tr>
<tr>
<td></td>
<td><strong>Example:</strong> w3k:50000/O=700,c=com</td>
</tr>
<tr>
<td></td>
<td>More about the AD LDS in the online help.</td>
</tr>
<tr>
<td></td>
<td>More about ADAM in the online help.</td>
</tr>
<tr>
<td></td>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
<tr>
<td>ADAM user identification</td>
<td>ADAM/AD-LDS user identification</td>
</tr>
<tr>
<td></td>
<td>User name of a local user of the ADAM/AD LDS PC with administration rights.</td>
</tr>
<tr>
<td></td>
<td>More about the AD LDS in the online help.</td>
</tr>
<tr>
<td></td>
<td>More about ADAM in the online help.</td>
</tr>
<tr>
<td></td>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
<tr>
<td>Topics</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>ADAM password</strong></td>
<td><strong>ADAM/AD-LDS password</strong></td>
</tr>
<tr>
<td>Password of the local user of the ADAM/AD LDS PC.</td>
<td>More about the AD LDS in the online help.</td>
</tr>
<tr>
<td>More about ADAM in the online help.</td>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
<tr>
<td><strong>Log out/log in</strong></td>
<td><strong>Properties for log in and log out.</strong></td>
</tr>
<tr>
<td><strong>Activate automatical logout</strong></td>
<td><strong>Activate automatical log out</strong></td>
</tr>
<tr>
<td>Active: The user is automatically logged out, if no user action happens for the defined period of time.</td>
<td>Inactive: The user is not automatically logged off by the system.</td>
</tr>
<tr>
<td>Default: inactive.</td>
<td>Read more in the online manual</td>
</tr>
<tr>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
<td></td>
</tr>
<tr>
<td><strong>Activate temporary login</strong></td>
<td><strong>Temp. login active</strong></td>
</tr>
<tr>
<td>Active: If a user is not logged in and tries to operate an element which needs a user authorization, he must enter his user name and password.</td>
<td>Inactive: If a user is not logged in and tries to operate an element which needs a user authorization, he receives a message that he does not have the necessary authorization.</td>
</tr>
<tr>
<td>Default: active.</td>
<td></td>
</tr>
</tbody>
</table>


**Note:** You can define position and size of the login mask in file zenon6.ini in section \[Befehlsgabe\] `Position =`.

More in the online help

This property is available in VBA (with class name) and in the XML export (without class name) under: ""

Locked buttons style

Locked buttons

*Only available if the property is* Temp. login active inactive.

Defines the look of buttons that are locked due to the configuration of the authorization. Is combined in the Runtime for the operation of keys with property Interlocked buttons *(graphical design)*.

**Possible formats:**

- Grey
- Normal
- Invisible

**Default:** Normal

More in the online help

This property is available in VBA (with class name) and in the XML export (without class name) under: ""

Set names for authorization levels

Conforms to property Rename authorization levels.

You can assign a name to each of the 128 authorization levels. Click in the right-hand column in order to enable the renaming.
User groups

On this tab you assign authorization levels to user groups.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>User groups</td>
<td>List of user groups</td>
</tr>
<tr>
<td>User group levels</td>
<td>List of the authorization levels</td>
</tr>
<tr>
<td>Delete</td>
<td>Deletes selected object without confirmation message.</td>
</tr>
</tbody>
</table>

Click on a user group in order to show its authorization level. Click on the level in order to edit it. The name is automatically adapted. Click on an empty level in order to insert a new authorization level.

When clicking on Delete, you can delete both the groups and the assigned authorization levels. At deleting no confirmation message is displayed.
**CEL & alarms**

Configuration of the Chronological Event List and the Alarm Message List.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chronological Event List and Alarm Message List</strong></td>
<td>Chronologic event list&lt;br&gt;Properties for the Chronologic Event List (CEL) configuration.&lt;br&gt;Read more in the online manual&lt;br&gt;This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
<tr>
<td><strong>CEL active</strong></td>
<td>CEL active&lt;br&gt;&lt;br&gt;<strong>Active:</strong> The Chronological Event List (CEL) is active in the Runtime. Events are recorded and the CEL is available.&lt;br&gt;<strong>Inactive:</strong> No event are recorded.&lt;br&gt;<strong>Default:</strong> active&lt;br&gt;&lt;br&gt;<strong>Note:</strong> Changes take effect after the Runtime has been restarted.&lt;br&gt;&lt;br&gt;More in the online help&lt;br&gt;This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
<tr>
<td><strong>Update automatically</strong></td>
<td>Update automatically&lt;br&gt;&lt;br&gt;<strong>Only available if property CEL active is active.</strong>&lt;br&gt;<strong>Active:</strong> During the time the CEL is opened in the Runtime, new events are immediately added when they occur.&lt;br&gt;<strong>Inactive:</strong> As long as the CEL is opened no new entries are added. The new entries are added when the CEL is</td>
</tr>
</tbody>
</table>
opened the next time.
Default: active

More in the online help
This property is available in VBA (with class name) and in the XML export (without class name) under: ""
### Print system messages

Print system messages

**Only available if property CEL active is active.**

**Active:** At online printing system messages are also printed.

**Inactive:** At online printing system messages are not printed.

**Default:** active

**More in the online help**

This property is available in VBA (with class name) and in the XML export (without class name) under: ""

---

### Long dynamic limit texts CEL

Long dynamic limit texts CEL

Determines whether the comment field for dynamic limit texts is available. The dynamic limit allows you to include the current values of other variables in the limit text of a variable.

**Active:** Dynamic contents will be stored in a file with the file format D*.CEL It will be stored in addition to the file C*.CEL. The comment filed can therefore been used for comments. Dynamic limit texts may have a maximum length of 254 characters.

**Inactive:** The comment field is used for dynamic limit texts and is therefore not available for comments. Maximum length: 80 character.

**Default:** inactive.

**More in the online help**

This property is available in VBA (with class name) and in the XML export (without class name) under: ""
### Signature text editable

**Signature text editable**

Active: *In the Runtime a dialog for editing the signature text is opened.*

Inactive: *The signature text cannot be edited in the Runtime.*

Default: inactive.

Read more in the online manual

This property is available in VBA (with class name) and in the XML export (without class name) under: ""

### Data storage CEL

**Data storage CEL**

Properties for the storage of the Chronologic Event List (CEL) entries in the memory and on the harddisk.

Read more in the online manual

This property is available in VBA (with class name) and in the XML export (without class name) under: ""

### Size of the ring buffer

**Size of the ringbuffer**

Only available if property CEL active is active.

Size of the CEL ring buffer. If the ring buffer overflows (cel.bin), the entries are transferred to the CEL archive (*.cel).

Minimum: 1  
Maximum: 32767  
Default: 100
**Note:** In the Runtime it is possible that more entries are displayed than you engineered as old entries are only removed from the CEL when the list is updated.

More in the online help

This property is available in VBA (with class name) and in the XML export (without class name) under: ""
<table>
<thead>
<tr>
<th>Save CEL data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Save CEL data</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Only available if property CEL active is active.</strong></td>
<td></td>
</tr>
<tr>
<td>Ring buffer and historic data: All CEL entries (*.cel) are saved.</td>
<td></td>
</tr>
<tr>
<td>Only ring buffer: Only a defined number of CEL entries (cel.bin) is saved. The number is defined via property Size of the ringbuffer.</td>
<td></td>
</tr>
<tr>
<td>Default: On CE devices only the ring buffer (cel.bin) is saved on the hard disk; on PCs the historic entries (*.cel) are also saved.</td>
<td></td>
</tr>
<tr>
<td>Default: Default</td>
<td></td>
</tr>
<tr>
<td>The files (cel.bin and *.cel) are saved in directory \project directory\computer name\project name.</td>
<td></td>
</tr>
<tr>
<td>More in the online help</td>
<td></td>
</tr>
<tr>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Save ring buffer on change</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Save ringbuffer on change</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Only available if property CEL active is active.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Active</strong>: Each change of the data of the Chronological Event List (CEL) triggers the saving of the data (cel.bin).</td>
<td></td>
</tr>
<tr>
<td><strong>Note</strong>: With this the whole ring buffer is saved at every saving. This can - especially for Flash Disks - lead to substantial system load.</td>
<td></td>
</tr>
<tr>
<td><strong>Inactive</strong>: Data of the CEL (cel.bin) are only when the Runtime is closed or when function Save AML and CEL ring buffer is executed. Recommended especially for low performance. Historic data (*.cel) can be saved independently at every value change.</td>
<td></td>
</tr>
<tr>
<td><strong>Default</strong>: inactive</td>
<td></td>
</tr>
<tr>
<td>More in the online help</td>
<td></td>
</tr>
<tr>
<td>-------------------------</td>
<td></td>
</tr>
<tr>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
<td></td>
</tr>
<tr>
<td>Logging</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td></td>
</tr>
<tr>
<td><strong>Logging</strong></td>
<td></td>
</tr>
<tr>
<td>General properties for the Chronologic Event List (CEL).</td>
<td></td>
</tr>
<tr>
<td>Read more in the online manual</td>
<td></td>
</tr>
<tr>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alarm acknowledgement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alarm acknowledgement</strong></td>
</tr>
<tr>
<td>Only available if property <strong>Alarm Message list active</strong> is active.</td>
</tr>
<tr>
<td><strong>Active</strong>: If an alarm is acknowledged, an entry is created in the Chronological Event List (CEL).</td>
</tr>
<tr>
<td><strong>Inactive</strong>: Acknowledging an alarm does not trigger an entry in the CEL.</td>
</tr>
<tr>
<td><strong>Default</strong>: inactive.</td>
</tr>
<tr>
<td>More in the online help</td>
</tr>
<tr>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Function Set SV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Function Set SV</strong></td>
</tr>
<tr>
<td>Only available if property <strong>CEL active</strong> is active.</td>
</tr>
<tr>
<td><strong>Active</strong>: At successful writing of values to the hardware, a corresponding entry is entered in the CEL.</td>
</tr>
<tr>
<td><strong>Inactive</strong>: The successful writing of values is not logged in the CEL.</td>
</tr>
<tr>
<td><strong>Default</strong>: inactive</td>
</tr>
<tr>
<td><strong>Hint</strong>: To use these properties you must carry out write set value via function write set value.</td>
</tr>
<tr>
<td><strong>More in the online help</strong></td>
</tr>
<tr>
<td>-----------------------------</td>
</tr>
<tr>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
</tbody>
</table>
### Topics

<table>
<thead>
<tr>
<th>Send recipes</th>
<th>Change recipes</th>
<th>Alarm groups</th>
</tr>
</thead>
</table>

#### Send recipes

**Send recipes**

**Only available if property CEL active is active.**

- **No logging:** Writing standard recipes and recipes of the Recipegroup Manager (RGM) is not logged in the CEL.
- **Log recipes:** When writing a recipe, it is logged with the name of the recipe in the CEL.
- **Log recipes and values:** When writing recipe, it is logged with the name of the recipe and the name and the old and new values of the variables in the CEL.

**Default:** no logging

**More in the online help**

This property is available in VBA (with class name) and in the XML export (without class name) under: ""

#### Change recipes

**Change recipes**

**Only available if property CEL active is active.**

- **No logging:** Changing standard recipes and recipes of the Recipegroup Manager (RGM) is not logged in the CEL.
- **Log recipes:** When changing a recipe, it is logged with the name of the changed recipe in the CEL.
- **Log recipes and values:** When changing a recipe, it is logged with the name of the changed recipe and the name and the old and new values of the changed variables in the CEL.

**Default:** no logging

**More in the online help**

This property is available in VBA (with class name) and in the XML export (without class name) under: ""
<table>
<thead>
<tr>
<th>Add</th>
<th>Adds the character string entered in the input field as new alarm/event group. Adding can also be carried out via key Enter.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove</td>
<td>Deletes highlighted alarm/event group.</td>
</tr>
<tr>
<td>Alarm classes</td>
<td>Alarm/event classes</td>
</tr>
<tr>
<td>Add</td>
<td>Adds the character string entered in the input field as new alarm/event class. Adding can also be carried out via key Enter.</td>
</tr>
<tr>
<td>Remove</td>
<td>Deletes highlighted alarm/event group.</td>
</tr>
</tbody>
</table>

**Templates I**

On this tab you can edit the following elements:

- Screens
- Data types
- Color palettes
In each right-hand list the XML files, which exist in the current configuration file for the element, are displayed and edited.
### Buttons

<table>
<thead>
<tr>
<th>Right-hand list</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Export</strong></td>
<td>Opens the dialog for exporting XML files which were created in the Editor via command <em>Exported selected XML</em>.</td>
</tr>
<tr>
<td><strong>Import</strong></td>
<td>Opens the dialog for importing XML files which were created in the Editor via command <em>Exported selected XML</em>. Import is carried out in folder <code>%ProgramData%\Copa-Data\zenon700\Templates\PharmaWizard</code>.</td>
</tr>
<tr>
<td><strong>Delete</strong></td>
<td>Deletes XML files which were created in the Editor via command <em>Exported selected XML</em>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Left-hand list</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Add</strong></td>
<td>Adds templates from the left-hand list. As an alternative you can also carry out a double click on the template. Saving to the current project or to another project is carried out on tab Finish (on page 105).</td>
</tr>
<tr>
<td><strong>Remove</strong></td>
<td>Removes template from the list.</td>
</tr>
</tbody>
</table>

### Templates II

On this tab you can edit the following elements:

- Symbols
Reports from the Report Generator

In each right-hand list the XML files, which exist in the current configuration file for the element, are displayed and edited. Reports are saved as XRS files.
<table>
<thead>
<tr>
<th>Buttons</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Right-hand list</strong></td>
<td></td>
</tr>
<tr>
<td>Export</td>
<td>Opens the dialog for importing XML files which were created in the Editor via command <em>Exported selected XML</em>.</td>
</tr>
<tr>
<td>Import</td>
<td>Opens the dialog for importing XML files which were created in the Editor via command <em>Exported selected XML</em>. C:\ProgrammData\Copa-Data\zenon700\Templates\PharmaWizard.</td>
</tr>
<tr>
<td>Delete</td>
<td>Deletes XML files which were created in the Editor via command <em>Exported selected XML</em>.</td>
</tr>
<tr>
<td><strong>Left-hand list</strong></td>
<td></td>
</tr>
<tr>
<td>Add</td>
<td>Adds templates from the left-hand list. As an alternative you can also carry out a double click on the template. Saving to the current project or to another project is carried out on tab Finish (on page 105).</td>
</tr>
<tr>
<td>Remove</td>
<td>Removes template from the list.</td>
</tr>
</tbody>
</table>

**Finish**

In this tab:

- the project description is entered
- you define how the changed engineering is saved
### Parameters

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project description</td>
<td>Information about the project as defined on tab Settings (on page 71). Display only, cannot be changed.</td>
</tr>
<tr>
<td>Author</td>
<td>Name of the engineer.</td>
</tr>
<tr>
<td>Manager</td>
<td>Name of the manager.</td>
</tr>
<tr>
<td>Company</td>
<td>Company.</td>
</tr>
<tr>
<td>Comment</td>
<td>Comments to the project.</td>
</tr>
<tr>
<td>Save configuration settings</td>
<td>Options for saving changes done by the wizard.</td>
</tr>
<tr>
<td>Message field</td>
<td>Messages about success/failure of save actions.</td>
</tr>
<tr>
<td>... in current project</td>
<td>All settings are loaded in the current project. With this the settings in the project are overwritten.</td>
</tr>
<tr>
<td>... as a new project</td>
<td>A new project is created with the defined settings and the selected frames. You must first select a project name.</td>
</tr>
<tr>
<td>... as file</td>
<td>A new configuration file of file name *.cof is created. If the name of an existing configuration file is used it is overwritten. <strong>Attention:</strong> The created configuration files can only be read, created and edited with the wizard.</td>
</tr>
<tr>
<td>Name</td>
<td>Name of the configuration file.</td>
</tr>
</tbody>
</table>

### Project

Wizards for:

- Project creation (on page 121)
- the compare of project backups (on page 108)
- the creation of a project documentation (on page 144)
3.5.1 Project comparison

The wizard makes it possible to compare project backups. At this it is analyzed which objects and elements were deleted, added and/or changed. The result can be saved and displayed as XML or HTML file.

REQUIREMENTS

The wizard can read in and compare project backups which:

- were saved as zip file
- were created with activated versioning
- were created with activated XML export

To activate versioning and XML export:

1. open the General node in project settings.
2. go to section Versioning
3. Activate the Versioning active property
4. Activate the XML export active property

TEMPORARY FILES

During the compare the wizard unzips the project backup in the temporary folder BackUpComparisonWorkingFolder. It is created in path C:\Users\Public\Documents\zenon_Projects\Worspace. This temporary folder is deleted when the wizard is closed.

Start the wizard

To start the wizard:

1. Click on File-> Wizards...
   or press the short cut Alt+F12
2. The selection window with the available wizards opens
3. Select the **Project** folder

4. select the **Backup Comparison Wizard** there

![Backup Comparison Wizard](image)

5. click on **OK**

6. The wizard starts with the welcome page
Welcome

Tab Welcome informs you about performance and use of the wizard.

The navigation through the wizard is done by clicking on the individual tabs or step by step by clicking on the arrow keys.

Click on Cancel to close the wizard.
**Settings**

On this tab the two project backups which should be compared are selected and the zenon modules which should be part of the compare.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select project backups</td>
<td>Selection of the backup files.</td>
</tr>
<tr>
<td>Latest version</td>
<td>Latest version. Click on button ... in order to open the dialog for selecting a project backup.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Per default project backups are in folder %ProgramData%\COPA-DATA\SQL2008R2\BACKUP[Project]; via export however they can be stored in any folder.</td>
</tr>
<tr>
<td>Older version</td>
<td>Older version. Click on button ... in order to open the dialog for selecting a project backup.</td>
</tr>
<tr>
<td>Select project modules</td>
<td>Selection of the modules which should be compared. Selection takes place via activating the checkboxes in front of the module names. These settings are saved for each user individually and are available when the wizard is opened again.</td>
</tr>
<tr>
<td>Cursor keys</td>
<td>Click on the button to go to the previous or next tab.</td>
</tr>
<tr>
<td>Cancel</td>
<td>Closes the wizard.</td>
</tr>
</tbody>
</table>
Compare

On this tab the project backups are compared on basis of the selected modules.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>List field</td>
<td>After you click on button <strong>Compare</strong> the differences of the project backups are displayed in the list field.</td>
</tr>
<tr>
<td></td>
<td><strong>Content of the columns:</strong></td>
</tr>
<tr>
<td></td>
<td>‣ <strong>Modules</strong>: Name of the module.</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>Result</strong>: Name of the object.</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>Element</strong>: Display and description of the element.</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>Parameter</strong>: Name of the changed parameter.</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>Old</strong>: Previous value of a changed parameter.</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>New</strong>: New value of a changed parameter.</td>
</tr>
<tr>
<td></td>
<td><strong>Color-coded marking:</strong></td>
</tr>
<tr>
<td></td>
<td>‣ <strong>blue</strong>: new objects and elements</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>red</strong>: deleted objects and elements</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>green</strong>: changed objects and elements</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>black</strong>: unchanged objects and elements</td>
</tr>
<tr>
<td>Navigation</td>
<td>Elements for the navigation in the list.</td>
</tr>
<tr>
<td>Changed elements</td>
<td><strong>Active</strong>: Click on the button with the vertical arrow in order to jump to the previous/next changed element.</td>
</tr>
<tr>
<td>Deleted elements</td>
<td><strong>Active</strong>: Click on the button with the vertical arrow in order to jump to the previous/next deleted element.</td>
</tr>
<tr>
<td>New elements</td>
<td><strong>Active</strong>: Click on the button with the vertical arrow in order to jump to the previous/next new element.</td>
</tr>
<tr>
<td>Show only differences</td>
<td><strong>Active</strong>: After you click on button <strong>Compare</strong> only the differences are displayed color-coded; unchanged elements are not displayed.</td>
</tr>
<tr>
<td></td>
<td>If this option is changed, you must start the compare again by clicking <strong>Compare</strong>.</td>
</tr>
<tr>
<td>Compare</td>
<td>Compares the project backups in accordance with the selection and displays them in the list field.</td>
</tr>
<tr>
<td>vertical double arrow buttons</td>
<td>Click on the button to jump to the previous/next module.</td>
</tr>
</tbody>
</table>
### Vertical arrow buttons
Click on the button to jump to the previous/next result of the same type depending on the setting.
- Changed elements
- Deleted elements
- New elements

### Horizontal arrow keys
Click on the button to go to the previous or next tab.

### Cancel
Closes the wizard.

**EXAMPLE PROJECT COMPARE:**

**ALL OBJECTS:**

![Backup Comparison Wizard](image)

Some changes:

In module screens:

- the screen `batch` was deleted
- in screen `SYSTEM_2` a text element was changed
- in screen `START` a button named `Button_1` was added
- in screen `ALARM` nothing was changed

**ONLY DIFFERENCES:**

![Comparison screenshot]

The changes are visible in the same way as in the previous screenshot. Objects and elements which have not been changed are hidden.
Documentation

On this tab you can display and save the result of the project backup compare as XML file or HTML file.
### Parameters | Description
--- | ---
**Settings** | Settings for type of documentation.
**Create XML** | Active: An XML file is created.
**Create HTML** | Active: A HTML file is created.
**Save Path** | Path to the folder in which the file is saved. Display only. Selection is carried out via button **Compare**.
**Create documentation** | Click on button:
  - to open the file browser: Select the saving location and give a name to the documentation file.
  - The documentation is saved in the desired type and is displayed in the list field.
**List field** | Display documentation.
**Arrow button** | Click on the button to go to the previous tab.
**Cancel** | Closes the wizard.

**EXAMPLE XML FILE**

Display in the wizard:
Display as XML file:

```xml
<?xml version="1.0" encoding="utf-8" standalone="no" ?>
<Project Name="sepp" BackupONE="2011-10-31_08-47-48 sepp.zip" BackupTWO="2011-10-10_08-07-46 sepp.zip">
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Funktion 5" />
      <Item Name="Funktion 4" />
    </Item>
    <Item Name="Functions">
      <Item Name="Funktion 0" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 39" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 38" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 37" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 36" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 35" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 34" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 33" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 32" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 31" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 30" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 29" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 28" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 27" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 26" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 25" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 24" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 23" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 22" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 21" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 20" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 19" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 18" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 17" />
    </Item>
  </Item>
  <Item Name="Items">
    <Item Name="Functions">
      <Item Name="Screen 16" />
    </Item>
  </Item>
</Project>
```
EXAMPLE HTML FILE

At the creation of an HTML file, an XML and an XSLT file are also created at the saving location. These two files are used to generate the HTML file dynamically:

Structure of the HTML file:
3.5.2 Project Wizard

With this wizard you can create basic objects for new projects. You can configure:

- Information about the project
- Drivers also with driver variables
- Graphics settings
- Basic screens with symbols, WPF element, AML, CEL, system information and an overview of the simulation variables
- Navigation

Settings changed in the wizard are saved in the user profile of the operating system and loaded at the next opening by the same user.

The wizard is executed in English; the language in the project corresponds to that of the open zenon Editor. This wizard is automatically executed when a new project is created.

Start the wizard

This wizard is automatically executed when a new project is created. It can also be selected directly in the dialog for starting wizards.

Attention: If the wizard is started in an existing project, existing objects may be changed or overwritten.

To start the wizard manually:

1. Click on *File*->*Wizards*...
   or press the short cut *Alt+F12*

2. The selection window with the available wizards opens
3. Select the **Project** folder

![Image of Project folder selection]

4. Select the **VSTA Project Wizard** there

![Image of VSTA Project Wizard]

5. Click on **OK**

6. The wizard starts with the welcome page

If you call up the wizard from an existing project, you receive a warning:

![Image of Project overwrite warning]

You try to overwrite an existing project! If you continue, some changes may be made. Do you wish to continue anyway?
By clicking on Yes, you confirm that you accept changes to your existing configuration.

**Welcome**

Tab **Welcome** informs you about performance and use of the wizard.

The navigation through the wizard is done by clicking on the individual tabs or step by step by clicking on the arrow keys.

Click on **Close** to close the wizard.

Click on **overwrite** to create the project and overwrite possibly existing objects. Only active if tab **Finish** is opened.
Project info

On this tab you configure general project settings and settings concerning versioning and history of change.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author</td>
<td>Author of the project.</td>
</tr>
<tr>
<td>Manager</td>
<td>Responsible manager.</td>
</tr>
<tr>
<td>Company</td>
<td>Company.</td>
</tr>
<tr>
<td>Comment</td>
<td>Comments to the project.</td>
</tr>
<tr>
<td>Backup settings</td>
<td>Settings for versioning.</td>
</tr>
<tr>
<td>Versioning</td>
<td>Versioning active</td>
</tr>
</tbody>
</table>

**Only available if property** Versioning active **is active.**

**Active:** Project versioning is used. Every project backup is saved with an own version number.

**Inactive:** no versioning of the project backup.

**Default:** inactive

More in the online help.

This property is available in VBA (with class name) and in the XML export (without class name) under: ""

<table>
<thead>
<tr>
<th>XML export active</th>
<th>XML export active</th>
</tr>
</thead>
</table>

**Only available if property** Versioning active **is active.**

**Active:** At each project backup an XML file (version.zip) is inserted. It includes 24 XML files with the backups of the individual modules.

**Note:** For multi-user projects only for local backups.

**Default:** inactive

More in the online help.
<p>| | This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot; |</p>
<table>
<thead>
<tr>
<th>History of changes</th>
<th>Settings for history of changes.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active</strong></td>
<td><strong>History of changes active</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Active:</strong> Changes in the project are logged.</td>
</tr>
<tr>
<td></td>
<td><strong>Inactive:</strong> Changes in the project are not logged.</td>
</tr>
<tr>
<td></td>
<td><strong>Default:</strong> inactive.</td>
</tr>
<tr>
<td></td>
<td><strong>Read more in the online manual</strong></td>
</tr>
<tr>
<td></td>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Detailing levels</th>
<th><strong>Detailing level</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Only available if property</strong> History of changes active is active.</td>
</tr>
<tr>
<td></td>
<td><strong>Selection of details levels from drop-down list.</strong></td>
</tr>
<tr>
<td></td>
<td>› <strong>Object:</strong> Only the object names of the changed objects are logged. Details concerning properties and their values are not displayed in the History of changes.</td>
</tr>
<tr>
<td></td>
<td>› <strong>Properties:</strong> Additionally to the object names the changed properties and the new values are displayed in the history of changes.</td>
</tr>
<tr>
<td></td>
<td>› <strong>Value changes:</strong> This setting causes the most detail level of logging. Not only the new value of a property is displayed but also the old one. This makes a complete tracability of the changes of values possible.</td>
</tr>
<tr>
<td></td>
<td><strong>Default:</strong> Properties</td>
</tr>
<tr>
<td></td>
<td><strong>More in the online help</strong></td>
</tr>
<tr>
<td></td>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
</tbody>
</table>
### Topics

| **Cursor keys** | Move one tab forward or back. |
| **Overwrite**  | Creates project and overwrites possibly existing object. Only active if tab **Finish** is opened. |
| **Close**      | Closes the wizard. The made changes can be saved for the current user. |

---

**Drivers**

On this tab the necessary zenon drivers are selected.

![zenon Wizard](image)
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver list</td>
<td>List of zenon drivers. Selection is done by clicking on the driver.</td>
</tr>
<tr>
<td>Driver information</td>
<td>Display of the information about the selected driver.</td>
</tr>
<tr>
<td>Driver name</td>
<td>Name of the driver how it should be displayed in the project. Free text input.</td>
</tr>
<tr>
<td>Identification</td>
<td>Distinct name of the driver. zenon identifies the driver with the help of this name and not with the help of the file name. Thus it is possible to load the same driver several times. This is for example necessary when you must access same control types which are connected to different serial interfaces.</td>
</tr>
<tr>
<td></td>
<td><strong>Attention:</strong> This property is not available for language switch.</td>
</tr>
<tr>
<td></td>
<td><strong>More in the online help</strong></td>
</tr>
<tr>
<td></td>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
</tr>
<tr>
<td>Add</td>
<td>Adds the selected driver to the list of driver to be created.</td>
</tr>
<tr>
<td>Remove</td>
<td>Removes the selected driver from the list drivers to be created.</td>
</tr>
<tr>
<td>List of drivers to be created</td>
<td>List of drivers to be created with name, description and file name.</td>
</tr>
<tr>
<td>Create screen with driver statistic variables</td>
<td><strong>Active:</strong> For each driver a screen with driver variables is created.</td>
</tr>
<tr>
<td>Cursor keys</td>
<td>Move one tab forward or back.</td>
</tr>
<tr>
<td>Overwrite</td>
<td>Creates project and overwrites possibly existing object. Only active if tab Finish is opened.</td>
</tr>
<tr>
<td>Close</td>
<td>Closes the wizard. The made changes can be saved for the current user.</td>
</tr>
</tbody>
</table>
Graphic settings

On this tab you configure the resolution and the settings for the Runtime and touch screens.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>General project settings</td>
<td>General graphical settings for the project.</td>
</tr>
<tr>
<td>Current primary monitor size</td>
<td>Display of the current screen resolution. For multi-monitor systems the resolution of the main screen is displayed.</td>
</tr>
<tr>
<td>Screen resolution</td>
<td>Selection of desired screen resolution from drop-down list.</td>
</tr>
</tbody>
</table>
| Runtime title                    | **Driver invisible**<br>**Active:** Started drivers are not displayed in the Windows task bar in the Runtime.<br>**Inactive:** Started drivers are displayed in the Windows task bar in the Runtime.<br>**Default:** inactive.  
**More in the online help**<br>This property is available in VBA (with class name) and in the XML export (without class name) under: "" |
| Graphics quality                 | **Graphics quality**<br>**Setting for the quality of the graphics display.**<br>*DirectX allows a higher quality than Windows Basic or Windows Enhanced. DirectX display is only supported in the Runtime. Generally speaking DirectX Hardware is preferable and DirectX Software should only be used if necessary.*
**Possible selection:**<br>Windows Basic: Basic graphics settings. Recommended for resource-weak hardware.<br>Windows Enhanced: Provides enhanced functions for the graphical display - needs more resources. |
**DirectX Software**: Graphics calculation is done by the CPU and can lead to high CPU load.

**DirectX Hardware**: A part of the graphics calculation is done by the graphics card. If the system does not support the setting, it automatically switches to DirectX Software.

**Default**: Windows Enhanced

**Attention**: Windows Enhanced and DirectX are not available under Windows CE.

**Hints**: When switching the mode during the engineering, there can be slight pixel deviation. There set this property before you create screens.

At activating Windows Base for all line types which use Line width [Pixel] > 1, all line types are set to solid line.

**More in the online help**

This property is available in VBA (with class name) and in the XML export (without class name) under: ""
<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Menu position</td>
<td>Selection of the menu location from drop-down list.</td>
</tr>
<tr>
<td><strong>Runtime settings</strong></td>
<td>Settings for the Runtime.</td>
</tr>
</tbody>
</table>
| **Alarm status active** | Status line active  
*Only available if property* **Alarm Message list active** *is active.*  
**Active:** As soon as an alarm occurs, a red status line with alarm information is displayed at the top of screen in the Runtime. In this status line the alarm can also be acknowledged with a double right click if the logged in user has the corresponding rights.  
**Inactive:** No status line is displayed.  
**Default:** active  
*Attention multi-project administration:* The setting in the integration project defines the behavior for sub-projects, regardless of the setting of the sub-projects. The alarm status line of the uppermost project is always used in Runtime.  

More in the online help  
This property is available in VBA (with class name) and in the XML export (without class name) under: ""  
*Hint:* This wizard automatically activated property **Alarm Message list active.** |
| **Driver invisible** | Driver invisible  
**Active:** Started drivers are not displayed in the Windows task bar in the Runtime.  
**Inactive:** Started drivers are displayed in the Windows task bar in the Runtime.  
**Default:** inactive.  

More in the online help  
This property is available in VBA (with class name) and in the XML export (without class name) under: ""
| export (without class name) under: "" |  |
### Touch operation

<table>
<thead>
<tr>
<th>Multitouch</th>
<th>Settings for the touch operation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Multitouch active</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Active</strong>: Multi-Touch can be used. Flicks (short swipe) and right click (touch and hold) are deactivated. Requirements: All corresponding driver and devices are available. The device must be connected and switched on.</td>
<td></td>
</tr>
<tr>
<td>More in the online help.</td>
<td></td>
</tr>
<tr>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
<td></td>
</tr>
</tbody>
</table>

### Cursor visible

<table>
<thead>
<tr>
<th>Cursor visible</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active</strong>: The cursor in the Runtime is visible.</td>
<td></td>
</tr>
<tr>
<td><strong>Inactive</strong>: The cursor in the Runtime is invisible. So in projects with touchscreen the cursor can be switched off.</td>
<td></td>
</tr>
<tr>
<td><strong>Default</strong>: active.</td>
<td></td>
</tr>
<tr>
<td><strong>ATTENTION</strong>: This functionality only works in elements of the control system (screens, elements, ...) but not with Windows standard elements (title bars, menus, scroll bars, ...). For this the cursor has to be deactivated directly in the operating system.</td>
<td></td>
</tr>
<tr>
<td>Read more in the online manual</td>
<td></td>
</tr>
<tr>
<td>This property is available in VBA (with class name) and in the XML export (without class name) under: &quot;&quot;</td>
<td></td>
</tr>
</tbody>
</table>

### Automatic keyboard

<table>
<thead>
<tr>
<th>Automatic keyboard</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>For projects with touchscreen.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Active</strong>: A virtual keyboard is automatically opened, whenever a</td>
<td></td>
</tr>
<tr>
<td>Topics</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>user input is necessary (e.g. setting values or logging in). Inactive: No virtual keyboard is opened. Default: inactive.</td>
<td></td>
</tr>
</tbody>
</table>

Read more in the online manual

This property is available in VBA (with class name) and in the XML export (without class name) under: """"

<table>
<thead>
<tr>
<th>Create keyboard screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active: Creates DIALOGKBD for alphanumeric input and SETVALUEKBD for numeric input. For details see chapter Create screen of type keyboard. For it to be used in the Runtime, you must activate option Automatic keyboard.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Keyboard size (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyboard size [%]</td>
</tr>
</tbody>
</table>

Defines in which size in percent - starting from the original size - the automatic keyboard should be displayed in the Runtime.

Minimum: 50 %
Maximum: 300 %
Default: 100 %

More in the online help

This property is available in VBA (with class name) and in the XML export (without class name) under: ""

<table>
<thead>
<tr>
<th>Cursor keys</th>
</tr>
</thead>
<tbody>
<tr>
<td>Move one tab forward or back.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Overwrite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creates project and overwrites possibly existing object. Only active if tab Finish is opened.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Close</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closes the wizard. The made changes can be saved for the current user.</td>
</tr>
</tbody>
</table>
Screen selection

On this tab you can select screens which should be created in the project.

**Attention:** The screen switch function to the selected screens are configured with the default settings. No special settings such as filter, variables, etc. are made.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen types</td>
<td>Configuration of the screen.</td>
</tr>
<tr>
<td>Selection field</td>
<td>Selection of the screen type from drop-down list.</td>
</tr>
<tr>
<td>Frames list</td>
<td>Selection of the frame for the screen. Size and preview are displayed.</td>
</tr>
<tr>
<td>Width</td>
<td>Width of the screen.</td>
</tr>
<tr>
<td></td>
<td>Display only,</td>
</tr>
<tr>
<td>Height</td>
<td>Height of the screen.</td>
</tr>
<tr>
<td></td>
<td>Display only,</td>
</tr>
<tr>
<td>Preview</td>
<td>Preview of the selected screen type with the selected frame. Standard is displayed as empty.</td>
</tr>
<tr>
<td>Input field name</td>
<td>Free label of the screen name.</td>
</tr>
<tr>
<td>Add</td>
<td>Adds screen with selected name to list of screens.</td>
</tr>
<tr>
<td>Remove</td>
<td>Removes selected screen from list of screens.</td>
</tr>
<tr>
<td>Screens list</td>
<td>Lists all configured screens with names, screen types and size.</td>
</tr>
<tr>
<td></td>
<td>A maximum of 14 screens can be created.</td>
</tr>
<tr>
<td>Demo project</td>
<td>Settings for a example project.</td>
</tr>
<tr>
<td>Create demo screens</td>
<td><strong>Active:</strong> Exemplary screens are created for the engineering. Selection of the demo screens:</td>
</tr>
<tr>
<td></td>
<td>- Demo pages: Example pages (are always created)</td>
</tr>
<tr>
<td></td>
<td>- Alarm Message List: AML</td>
</tr>
<tr>
<td></td>
<td>- Chronological Event List: CEL</td>
</tr>
<tr>
<td></td>
<td>- System information: Pages with system information, number depending on the resolution</td>
</tr>
<tr>
<td>Cursor keys</td>
<td>Move one tab forward or back.</td>
</tr>
<tr>
<td>Overwrite</td>
<td>Creates project and overwrites possibly existing object. Only active if tab Finish is opened.</td>
</tr>
<tr>
<td>Close</td>
<td>Closes the wizard. The made changes can be saved for the current user.</td>
</tr>
</tbody>
</table>
EXAMPLE CONFIGURATION
Finish

On this tab the project is created.

Click on button **Overwrite** to create the project according to the settings on the tabs. Possible already existing objects are overwritten. The wizard remains open for further configuration. To close the wizard, click on button **Close**.

Examples in the Runtime

Below you will find two example how your entry in the wizard effects the display in the Runtime.

- Example 1: (on page 141) With active option **Create demo screens** (on page 137).
- Example 2 (on page 143): Without example screens.
With demo screens

Start page:

Navigation:

SIMUL information:
Report Viewer:

AML:

CEL:

SystemInfo_1 (for each screen resolution 1-3 screens):
SystemInfo_2 (1280x1024):

Driver:

Without demo screens

Start page:
3.5.3 **Documentation wizard**

This wizard leads you through the steps needed to create a HTML document of the active project.

It can be defined, which modules should be included in the documentation and which not.

The wizard can be edited.

3.6 **Screens and frames**

Wizards for screens and frames.

3.6.1 **World View Wizard**

This wizard helps you with the definition of a world view screen in an existing project.

It offers the following screen types:

- World view overview
- World view
3.7 Variables

Wizards for variables.

3.7.1 Variable creation wizard

This wizard serves to create many variables quickly.

3.7.2 Driver Simulation

The wizard creates an own straton program for each driver in the zenon project for which a driver simulation project is created. This straton program simulates for all variable pairs of the driver, for which a substitution rule applies, a direct allocation from command variable to response variable.

EXAMPLE

- zenon variables:
  - Test_CO : USINT
  - Test_RV : USINT
- Switch_CO: USINT
- Switch_RV: LREAL

Rules for substitutions:
- *CO -> *RV

Results in straton:

Start the wizard
To start the wizard:

1. Click on File -> Wizards...
   or press the short cut Alt+F12
2. The selection window with the available wizards opens
3. select folder Variables
4. select the **Driver Simulation Wizard** there

5. click on **OK**

6. The wizard starts with the welcome page
Welcome

Tab Welcome informs you about performance and use of the wizard.

The navigation through the wizard is done by clicking on the individual tabs or step by step by clicking on the arrow keys.

Click on close to close the wizard.
Settings

On this tab the substitution rules are created.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute wizard when compiling straton project</td>
<td>Active: As soon as action Create Runtime files is executed in zenon, the wizard is also executed.</td>
</tr>
<tr>
<td></td>
<td>Note: The logic for creating the straton project is running in the background. The user interface of the wizard is not displayed.</td>
</tr>
<tr>
<td>Topic</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>Drivers with simulation project</strong></td>
<td>Lists all drivers of the zenon project currently active in the zenon Editor for which a driver simulation project was created. If a driver is selected in this list, the defined substitution rules for this driver are displayed in area <strong>Replacement pattern</strong>.</td>
</tr>
<tr>
<td><strong>Replacement pattern</strong></td>
<td>Substitution rules.</td>
</tr>
<tr>
<td><strong>COMMAND variable</strong></td>
<td>Command variable. Only one wildcard (*) is allowed.</td>
</tr>
<tr>
<td><strong>RESPONSE variable</strong></td>
<td>Response variable. Only one wildcard (*) is allowed.</td>
</tr>
<tr>
<td><strong>Add</strong></td>
<td>Adds rules to <strong>List of rules</strong>.</td>
</tr>
<tr>
<td><strong>Modify</strong></td>
<td>Makes it possible to change selected rules.</td>
</tr>
<tr>
<td><strong>Remove</strong></td>
<td>Removes selected rules from the <strong>List of rules</strong>.</td>
</tr>
<tr>
<td><strong>List of rules</strong></td>
<td>Lists the defined rules.</td>
</tr>
<tr>
<td><strong>Cursor keys</strong></td>
<td>Moves to the previous or next tab.</td>
</tr>
<tr>
<td><strong>Close</strong></td>
<td>Closes wizard.</td>
</tr>
</tbody>
</table>

If rules are changed, the recreation of the simulation project is offered when you close the dialog. For this a dialog is opened:

![Driver Simulation Wizard dialog](image)

**Note:** Confirm this dialog with **Yes** if all substitution rules are deleted for a driver. Simulation projects without substitution rules are not considered at the automatic creation of the Runtime files in zenon.
Rebuild

On this tab you can trigger a rebuild of all straton simulation projects.

Click on button Rebuild in order to start the recreation of the driver simulation project for all corresponding drivers in the project.
4. Create and adapt wizards

Wizards are common VBA forms that contain certain functions in the code part. As a result of this, the formulas are recognized as zenon wizard.

The wizards supplied with zenon can form the basis of your own wizards.

Your own wizards can be stored in your own folders. All required information must be entered into the file named wizards.ini (on page 161). This can be included when the wizard is updated (on page 158).

VBA AND VSTA WIZARDS

To create wizards the following information is necessary for VBA and VSTA (on page 154):

- Name
- Description
- Category
- Display in the dialog
- Version number

These functions are read by zenon in order to identify forms as wizards and to display corresponding information in the wizard dialog.

For details on creating VSTA wizards see chapter Details VSTA wizards (on page 154).
**NAME**
States the wizard name as it is displayed in the dialog for the wizard.

Example: **VSTA project wizard**

<table>
<thead>
<tr>
<th>VBA</th>
<th>VSTA (on page 154)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function GetWizardName() As String</td>
<td></td>
</tr>
<tr>
<td>GetWizardName = &quot;Project-Wizard&quot;</td>
<td>GetWizardName (Type string)</td>
</tr>
<tr>
<td>End Function</td>
<td></td>
</tr>
</tbody>
</table>

**DESCRIPTION**
Contains the description of the wizard as it is displayed in area "Description" of the dialog.

Example: **This wizard creates a simple zenon Project (V.1)**

<table>
<thead>
<tr>
<th>VBA</th>
<th>VSTA (on page 154)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function GetWizardInfo() As String</td>
<td></td>
</tr>
<tr>
<td>GetWizardInfo = &quot;Wizard for creation of a project&quot;</td>
<td>GetWizardInfo (Type string)</td>
</tr>
<tr>
<td>End Function</td>
<td></td>
</tr>
</tbody>
</table>

**CATEGORY**
States the category in which the wizard is sorted.

For example: **Project**

**Hint:** You can use existing categories. VBA and VSTA wizards can be sorted in the same category.
DISPLAY IN THE DIALOG

Defines whether the wizards is displayed in the dialog. With this you can hide a wizard without deleting all functions or removing them from the add-in:

= true: is displayed
= false: is hidden

<table>
<thead>
<tr>
<th>VBA</th>
<th>VSTA (on page 154)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function IsZenOnWizard() As Boolean</td>
<td>IsZenOnWizard (Type bool)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VERSION NUMBER

States the version number which is displayed at the description. The version number is used to manage the update of the wizards.

Example: (V.1)

Note: Within a wizard class there must not be different functions with the same name. This is also true when they report back different parameters.

<table>
<thead>
<tr>
<th>VBA</th>
<th>VSTA (on page 154)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function GetWizardVersion() As Integer</td>
<td>GetWizardVersion (Type int)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4.1  Details VSTA-Wizard

VSTA WIZARD

#region Wizard_Identification
/// <summary>
/// This Static method returns the name of the wizard,
/// which will be displayed in the wizard-tree.
/// </summary>
/// <returns></returns>
static public string GetWizardName()
{
    string strValue = "Name of the wizard";
    return strValue;
}

/// <summary>
/// This Static method returns the description of the wizard,
/// which will be displayed at the bottom of the wizard-dialog.
/// </summary> /// <returns></returns>
static public string GetWizardInfo()
{
    string strValue = "A more detailed description of the wizard.";
    return strValue;
}

/// <summary>
/// This static method returns the category name of the wizard,
/// which will be used as node-name in the wizards-tree.
/// </summary>
/// <returns></returns>
static public string GetWizardCategory()
{
    string strValue = "Wizard category";
    return strValue;
}

/// <summary>
/// This static method returns a bool which can be used to "switch" the wizard
/// on/off in the wizard dialog (false=wizard is not shown in the tree).
/// </summary>
/// <returns></returns>
static public bool IsZenOnWizard()
{
    bool bValue=true;
    return bValue;
}

/// <summary>
/// This static method returns the version of the wizard.
/// Indicated at the bottom of the wizard-dialog.
/// </summary>
/// <returns>wizard version</returns>
static public int GetWizardVersion()
{

int nValue = 1;
return nValue;

/// <summary>
/// This method is called when the wizard has been selected in the
/// wizard dialog and confirmed with "OK".
/// </summary>
public void StartWizard()
{
    this.Show();
}
#endregion

VB.NET

"This shared method returns the name of the wizard,
which will be displayed in the wizard-tree.

Public Shared Function GetWizardName() As String
    GetWizardName = "Name of the wizard"
End Function

"This shared method returns the description of the wizard,
which will be displayed at the bottom of the wizard-dialog.

Public Shared Function GetWizardInfo() As String
    GetWizardInfo = "A more detailed description of the wizard."
End Function

"This shared method returns the category name of the wizard,
which will be used as node-name in the wizards-tree.

Public Shared Function GetWizardCategory() As String
    GetWizardCategory = "Wizard category"
End Function

"This shared method returns a bool which can be used to "switch" the wizard
'on/off in the wizard dialog (false=wizard is not shown in the tree).

Public Shared Function IsZenOnWizard() As Boolean
    IsZenOnWizard = True
End Function

"This shared method returns the version of the wizard.
"Indicated at the bottom of the wizard-dialog.

Public Shared Function GetWizardVersion() As Integer
    GetWizardVersion = 1
End Function
'This method is called when the wizard has been selected in the wizard dialog and confirmed with "OK".

Public Sub StartWizard()
    Me.Show()
End Sub

C# WORKSPACE

For the Editor to create an instance of the VSTA class dynamically, you must add an additional function to the "Default" Workspace Code. This code segment must exist so that the wizard is displayed after selection in the dialog. This code segment should not be modified!

#region Wizard
/// <summary>
/// This Routine Enables the Dynamic creation of VSTA-Wizards.
/// </summary>
/// <param name="strClassname"></param>
public void StartWizard(string strClassname)
{
    //Retrieve the ClassType by its Typename:
    Type t = Type.GetType(strClassname);
    if(t!=null)
    {
        //Since the ClassType has been found, let's create it.
        //The wizard from ClassType %strClassname% is required to have a Constructor with ZenWorkspace Parameter!

        object[] Params = new object[] { this.ZenWorkspace };  
        object Wizard = Activator.CreateInstance(t, Params);
        if (Wizard != null)
        {
            t.InvokeMember("StartWizard", BindingFlags.Public | BindingFlags.Instance | BindingFlags.InvokeMethod, null, Wizard, null);
        }
    }
}
#endregion

And for the VB.Net workspace like this:

' This Routine Enables the Dynamic creation of VSTA-Wizards, and should not be modified or removed!

Public Sub StartWizard(ByVal strClassname As String)
    Dim obClassType As Type
    Dim obWizard As Object
    Dim obParams(0) As Object
Update wizards

When installing zenon service packs, a wizard update is automatically offered.

Existing wizards are not overwritten by the setup. It can therefore be necessary for the wizards to be manually imported and updated.
REQUEST UPDATE

An update can also be initiated manually at any time by selecting **Update wizards** in the **File** drop-down menu.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wizard list</strong></td>
<td>Lists all VBA wizards and VSTA wizards present in the add-in that is running.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Name of the wizard.</td>
</tr>
<tr>
<td><strong>Object name</strong></td>
<td>VBA/VSTA object name.</td>
</tr>
<tr>
<td><strong>Previous Version</strong></td>
<td>Version currently being used.</td>
</tr>
<tr>
<td><strong>New version</strong></td>
<td>Version that it is being updated to.</td>
</tr>
<tr>
<td><strong>Information</strong></td>
<td>Status information and information on the pending action:</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>New</strong>: Wizard does not exist in the VBA file.</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>Changed</strong>: A new version is available.</td>
</tr>
<tr>
<td><strong>No longer supported:</strong> The existing wizard is obsolete and will be deleted.</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td></td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>VBA or VSTA</td>
</tr>
<tr>
<td><strong>User-specific</strong></td>
<td>Wizard was created or changed by the user</td>
</tr>
<tr>
<td><strong>Data sources</strong></td>
<td>Possibility of defining your own folder for your own wizards. The save location of the individual <code>wizards.ini</code> (on page 161) is entered. The entries for this are saved in <code>zenon.ini</code> in the <code>[VSTA]</code> section or <code>[VBA] as </code>WIZARDPATH=`.</td>
</tr>
<tr>
<td><strong>Additional folder for VSTA wizards</strong></td>
<td>Individual save location for your own VSTA wizards.</td>
</tr>
<tr>
<td><strong>Additional folder for VBA wizards</strong></td>
<td>Individual save location for your own VBA wizards.</td>
</tr>
<tr>
<td><strong>Remember me again</strong></td>
<td>The dialog will open again when the Editor is next started.</td>
</tr>
<tr>
<td><strong>Start update</strong></td>
<td>The wizards selected in the wizard list are updated.</td>
</tr>
<tr>
<td><strong>Cancel</strong></td>
<td>The dialog is ended without updating and is only offered again after the next installation of a service pack.</td>
</tr>
</tbody>
</table>

**MAKE SURE THAT YOU ARE UP TO DATE**

As objects which are not instanced at the time the dialog is opened are not checked, some objects are always offered for update. This makes sure that you do not work with out-of-date versions. The versions displayed in the update dialog is only used as information for the Consulting and Development departments.

**DISTRIBUTE WIZARDS THROUGHOUT THE COMPANY**

If you have written your own wizards and would also like to make these available to other users, then you can also use this method. To do this, you export the wizard from your VBA/VBA development environment and ideally place the export files in an approved network drive. ini files serve to control the imports. These must be created accordingly and also stored in the network. You can find a description of the files here: For VBA (on page 163) and for VSTA (on page 161).

Now you only need to show your colleagues the location where it is saved and the wizards can easily import these into your Editor. If you have changed or new wizards, you only need to export the new
status, store it and increase the version number. You can therefore easily distribute wizards in your company.

POSSIBLE ERRORS WHEN UPDATING VSTA WIZARDS

<table>
<thead>
<tr>
<th>Error</th>
<th>Possible causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>No VSTA wizards are displayed in the update dialog</td>
<td>▶ Only wizards that are in the add-in at the time are listed. If VSTA wizards are not shown, the VSTA add-in must be activated with the Start Editor. To do this, in zenon6.ini, in the [VSTA] section, set LOADED= to 1.</td>
</tr>
<tr>
<td></td>
<td>▶ If the workspace cannot be compiled due to errors in the code, no wizards are listed.</td>
</tr>
<tr>
<td>A particular wizard is not displayed</td>
<td>▶ The wizard does not support the required methods.</td>
</tr>
<tr>
<td></td>
<td>▶ The workspace was not yet compiled after the wizard was implemented; the add-in that is running does not contain the wizard.</td>
</tr>
<tr>
<td>Self-created wizards are not displayed</td>
<td>▶ The configured path is incorrect.</td>
</tr>
<tr>
<td></td>
<td>▶ The wizards.ini in the path configured is obsolete or defective.</td>
</tr>
</tbody>
</table>

5.1 Creation of the wizards.ini

Creation of the INI file for administering the wizard in VSTA and VBA.

Info

This documentation is only available in English.

5.1.1 VSTA wizards.ini

[DEFAULT]: Contains global settings
COUNT: Amount of wizards included in theINI (must be modified when adding/removing a wizard to the ini

[MYWORKSPACE] Contains settings for the Workspace.cs

VERSION: Current version

[WIZARD_X]: Contains settings of a wizard:

NAME: Name as indicated in the update dialog
CLASSNAME: Name of the form class representing the wizard.
VERSION: Version number
PATH: path-expansion to location of the files.
DELETE: 1 when the wizard is to be removed from the workspace
FILES: The amount of files included in this wizard
FILE_X: The name of a file included in the wizard
TYPE_X: The type of the file (required for the Form.cs and Resx file)
DEP_X: The name of a file on which this file depends

EXAMPLE

[DEFAULT]
COUNT=3

[MYWORKSPACE]
VERSION=1

[WIZARD_1]
NAME=Import-Wizard
CLASSNAME=Wizard_Exportxml
VERSION=3
PATH=\Wizard_Exportxml
DELETE=0
FILES=3
FILE_1=Wizard_Exportxml.cs
TYPE_1=Form
FILE_2=Wizard_Exportxml.Designer.cs
DEP_2=Wizard_Exportxml.cs
FILE_3=Wizard_Exportxml.resx
DEP_3=Wizard_Exportxml.cs
TYPE_3=EmbeddedResource

[WIZARD_2]
NAME=Wizard_Project
CLASSNAME=Wizard_Project
VERSION=1
PATH=\Wizard_Project
DELETE=0
FILES=3
FILE_1=Wizard_Project.cs
TYPE_1=Form
FILE_2=Wizard_Project.Designer.cs
DEP_2=Wizard_Project.cs
FILE_3=Wizard_Project.resx
DEP_3=Wizard_Project.cs
TYPE_3=EmbeddedResource

[WIZARD_3]
NAME=Demo Wizard
CLASSNAME=Wizard_Demo
VERSION=1
PATH=\Wizard_Demo
DELETE=0
FILES=3
FILE_1=Wizard_Demo.cs
TYPE_1=Form
FILE_2=Wizard_Demo.Designer.cs
DEP_2=Wizard_Demo.cs
FILE_3=Wizard_Demo.resx
DEP_3=Wizard_Demo.cs
TYPE_3=EmbeddedResource

5.1.2 VBA wizards.ini

[DEFAULT]: Contains global settings
COUNT: Amount of wizards included in the INI (must be modified when adding/removing a wizard to the ini
[MYWORKSPACE] Contains settings for the Workspace.cs
VERSION: Current version
[WIZARD_X]: Contains settings of a wizard:
NAME: Name as indicated in the update dialog
VERSION: Current version
PATH: path-expansion to location of the files.
VB_NAME: Name of the VBA object representing the wizard.
VB_TYPE: 0=form, 1=class
DELETE: 1 when the wizard is to be removed from the workspace

EXAMPLE

[DEFAULT]
COUNT=3

[MYWORKSPACE]
VERSION=3

[WIZARD_1]
NAME=Wizard for creating variables
VERSION=8
PATH=\CreateVariables\frmCreateVariables.frm
VB_NAME=frmCreateVariables
VB_TYPE=0
DELETE=0

[WIZARD_2]
NAME=Document Wizard
VERSION=12
PATH=\DocuWizard\frmDocuWizardEx.frm
VB_NAME=frmDocuWizardEx
VB_TYPE=0
DELETE=0

[WIZARD_3]
NAME=Import-Wizard
VERSION=3
PATH=\ImportWizard\frmImportWizard.frm
VB_NAME=frmImportWizard
VB_TYPE=0
DELETE=1
5.1.3 Required methods for updating

Example of methods that are required for the wizard to be displayed in the update dialog:

**VBA**

' The following methods define the form as a control system wizard. If IsZenOnWizard is set to false,
' the wizard does not appear in the Wizard dialog and does not influence the wizard update dialog.

Public Function GetWizardName() As String
    GetWizardName = "Empty Wizard"
End Function

Public Function GetWizardInfo() As String
    GetWizardInfo = "<TODO: Add description here>"
End Function

Public Function GetWizardCategory() As String
    GetWizardCategory = "<TODO: Add category-information here>"
End Function

Public Function IsZenOnWizard() As Boolean
    IsZenOnWizard = False
End Function

Public Function GetWizardVersion() As Integer
    GetWizardVersion = 6
End Function

**VSTA**

#region Wizard_Identification
/// <summary>
/// This Static method returns the name of the wizard, 
/// which will be displayed in the wizard-tree.
/// </summary>
/// <returns></returns>
static public string GetWizardName()
{


string strValue = "Demo Wizard";
    return strValue;
}
/// <summary>
/// This Static method returns the description of the wizard,
/// which will be displayed at the bottom of the wizard-dialog.
/// </summary>/// <returns></returns>
static public string GetWizardInfo()
{
    string strValue = "This is our Demo Wizard";
    return strValue;
}
/// <summary>
/// This static method returns the category name of the wizard,
/// which will be used as node-name in the wizards-tree.
/// </summary>
/// <returns></returns>
static public string GetWizardCategory()
{
    string strValue = "Wizard VSTA";
    return strValue;
}
/// <summary>
/// This static method returns a bool which can be used to "switch" the wizard
/// on/off in the wizard dialog (false=wizard is not shown in the tree).
/// </summary>
/// <returns></returns>
static public bool IsZenOnWizard()
{
    bool bValue = false;
    return bValue;
}
/// <summary>
/// This static method returns the version of the wizard.
/// Indicated at the bottom of the wizard-dialog.
/// </summary>
/// <returns>wizard version</returns>
static public int GetWizardVersion()
{

int nValue = 1;
return nValue;
}

/// <summary>
/// This method is called when the wizard has been selected in the
/// wizard dialog and confirmed with "OK".
/// </summary>
public void StartWizard()
{
    this.Show();
}

#endregion