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1. Welcome to COPA-DATA help

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

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

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

- Select, in the File drop-down list, Wizards ...

  or

- press the shortcut 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:

- **Analyzer (on page 8)**
  - Analyzer Export Wizard (on page 29)
  - Parameterization Wizard (on page 8)

- **Import - Export (on page 57)**
  - FactoryLink import wizard (on page 57)
  - PDiag import wizard (on page 60)
  - WinCC Import Wizard (on page 67)
  - XML export wizard (on page 87)
  - XML Import Wizard (on page 92)

- **Language Table (on page 92)**
  - Language Table Wizard (on page 93)
  - Language Translation Wizard (on page 100)
  - System Text Wizard VSTA

- **Pharmaceutical (on page 113)**
  - Pharmaceutical Wizard (on page 114)

- **Project (on page 155)**
  - Backup Comparison Wizard (on page 156)
  - Documentation wizard (on page 193)
  - Project Wizard (on page 169)

- **Variables (on page 193)**
  - Variable creation wizard (on page 193)
  - Driver Simulation (on page 194)
  - IEC850 Driver Configuration (on page 199)

- **Wizards VSTA (on page 209)**
  - Demo Wizard: Empty template that can be amended individually.
3.1 Analyzer

The zenon Analyzer has wizards that support correct setting of parameters for the SCADA system and the export of data from the SCADA system. The zenon SCADA system is currently supported.

Wizards:

- **Parameterization Wizard** (on page 8): Helps you prepare a zenon project for the processing of variable information in zenon Analyzer.

- **The Analyzer Export Wizard** (on page 29) supports the export of metadata from zenon from version 7.00 SP0 for the zenon Analyzer.

- The wizards must be selected in the module selection during the installation of zenon Analyzer.

3.1.1 Parameterization Wizard

The **Parameterization Wizard** helps you prepare a zenon project for the processing of variable information in the zenon Analyzer.

**Note:** The wizard is only available in English.

The Parameterization Wizard helps you, when engineering projects in zenon, to configure:

- Meanings (Meaning)
Waterfall charts (Waterfall)

Install and call up wizard

The wizard is automatically installed together with zenon.

If a manual installation is necessary:

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 the folder [Installation medium]\Setup\Wizard\zenon7.11\WizardsVSTA

6. Select 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

CALLING UP THE 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 **Parameterization Wizard**

6. Start the wizard by clicking on **OK**
Start window

When opening the wizard, you receive an overview that lists and explains all objects that can be configured. Configuration starts with the Settings (on page 15) tab.

MEANING

zenon variables often receive technically-orientated names in the project. This naming is often not meaningful enough for display in a zenon Analyzer report. The variables can be given a unique name for display in the zenon Analyzer report. This name is saved with a special prefix in the resource label of the variable. After import into zenon Analyzer, this name is used for reports without the existing variable name needing to be changed.

The prefix for the meanings is created by the wizard automatically.
Syntax: \texttt{ME=Station\_1,Station\_2;}

- \texttt{ME=}: Identifies it as a meaning entry
- \texttt{Station\_X}: Meaning name. Other names can also be entered. The separator is a comma (,).
WATERFALL

Some zenon Analyzer reports can display a waterfall diagram using zenon variables. To do this, information on the appearance of the diagram must already be present in the resource label of the selected variable. The structure and appearance of a waterfall diagram can be defined with a wizard. The waterfall information is saved in the resource label of the variable with a special prefix and is available after import of the metadata in the zenon Analyzer database for the display of reports.

The prefix for the waterfall definition is automatically created by the wizard.

Syntax: \texttt{WF=Name,0,0,#FFFF00;}

- \texttt{WF=}: Identifies it as a waterfall definition.
- \texttt{Name}: Name of the waterfall diagram.
- \texttt{0}: Index of the row.
- \texttt{0}: Index of the column.
- \texttt{#FFFF00}: Color of waterfall bar.
- \%: End of entry.

NAVIGATION

Click on the button with the arrow to navigate (on page 14) through the configuration (on page 13) of the export.

Configuration

The Parameterization Wizard is configured with the following tabs:

- Settings (on page 15): Loading the data from the projects.
  Only once the data to be loaded is selected are other tabs available for meanings and/or waterfall diagrams.
  - Meaning filter (on page 17): Filter settings for meanings.
  - Waterfall filter (on page 23): Filter settings for waterfall.
  - Waterfall (on page 24): Selection of variables for waterfall diagram.
- Finish (on page 28): Acceptance of configuration and configuration by the wizard.

**Navigation**

Navigation through the tabs is carried out by means of the navigation bar in the lower area of the wizard window:
<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Column left</td>
<td>Goes back one tab in the wizard process.</td>
</tr>
<tr>
<td>Column right</td>
<td>Goes forward one tab in the wizard process.</td>
</tr>
<tr>
<td>Finish</td>
<td>Writes all changes to the zenon variable in the Editor and closes the wizard.</td>
</tr>
<tr>
<td>Cancel</td>
<td>Ends the wizard without making changes.</td>
</tr>
</tbody>
</table>

Individual tabs can also be selected by clicking directly on the title of the tab.

**Settings**

Selection and loading of the tabs to be configured.
### Parameters

<table>
<thead>
<tr>
<th><strong>Settings</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Load every project of this workspace into the memory</strong></td>
<td>Active: Projects from the workspace that are not in the memory are loaded. Once the wizard has been ended or once the Finish action has been executed, these are removed.</td>
</tr>
<tr>
<td><strong>Define Meanings</strong></td>
<td>Active: The Meaning filter (on page 17) and Meaning (on page 19) tabs are loaded.</td>
</tr>
<tr>
<td><strong>Define Waterfall</strong></td>
<td>Active: The Waterfall filter (on page 23) and Waterfall (on page 24) tabs are loaded.</td>
</tr>
<tr>
<td><strong>Load data</strong></td>
<td>Clicking on the button searches through the variables of all projects loaded in the workspace and loads the required information for the filter and editing the variables. The corresponding tabs are displayed in the wizard. A progress bar is displayed during the loading process.</td>
</tr>
</tbody>
</table>

After loading, all tabs are available for configuration.
### Meaning filter

The variables to be edited are pre-filtered with this tab. If an object is not selected in any group, all variables are available in the Meaning (on page 19) tab.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of equipment groups</td>
<td>Filtering for individual models by activating the respective checkboxes.</td>
</tr>
<tr>
<td></td>
<td><strong>No selection</strong>: Variables of all equipment models are selected.</td>
</tr>
<tr>
<td>List of projects</td>
<td>Filtering for individual checkboxes by activating the respective checkboxes.</td>
</tr>
<tr>
<td></td>
<td><strong>No selection</strong>: Variables of all projects are selected.</td>
</tr>
<tr>
<td>List of archives</td>
<td>Filtering for individual archives by activating the respective checkboxes.</td>
</tr>
<tr>
<td></td>
<td><strong>No selection</strong>: Variables of all archives are selected.</td>
</tr>
</tbody>
</table>
Meaning

The meanings of the variables are edited in this tab. Variables can be selected and given new meanings, and existing meanings can be removed.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Search meaning</strong></td>
<td>Input of a search term lists all variables with their corresponding meanings. The list is immediately updated with the entry of a character. Placeholders cannot be used.</td>
</tr>
<tr>
<td><strong>List of variables</strong></td>
<td>List of the variables available after filtering. Selection of variables for editing: Activation of the checkbox before the variables. Existing meanings of the variables are shown in the <strong>Meanings</strong> column. In doing so, only meanings are displayed. Other entries or entries for the waterfall chart are hidden or ignored when editing. The variables can be sorted by clicking on a column label.</td>
</tr>
<tr>
<td><strong>Select all</strong></td>
<td>Clicking this selects all variables for editing.</td>
</tr>
<tr>
<td><strong>Deselect all</strong></td>
<td>Clicking this deselects all variables.</td>
</tr>
<tr>
<td><strong>Display statistics</strong></td>
<td>Display how many variables:</td>
</tr>
<tr>
<td></td>
<td>‣ Are present in the list</td>
</tr>
<tr>
<td></td>
<td>‣ Have been selected</td>
</tr>
<tr>
<td></td>
<td>‣ Have been changed</td>
</tr>
<tr>
<td><strong>Reset</strong></td>
<td>Resets all changes that have been made by clicking on <strong>Update meaning</strong>. Note: Changes are only accepted finally after clicking on <strong>Finish</strong>.</td>
</tr>
<tr>
<td><strong>Add new meanings</strong></td>
<td>Allows meanings to be added to variables. New meanings are entered in the input field, added to the list and assigned to the selected variables using the <strong>Update meaning</strong> buttons.</td>
</tr>
<tr>
<td><strong>Input field</strong></td>
<td>Entry of a new meaning. Maximum length: 50 characters</td>
</tr>
<tr>
<td><strong>List of meanings</strong></td>
<td>Lists all meanings that have been created.</td>
</tr>
<tr>
<td><strong>Add to list</strong></td>
<td>Adds entry from text field to the list of meanings.</td>
</tr>
<tr>
<td><strong>Remove from list</strong></td>
<td>Deletes selected entry from the <strong>List of meanings</strong>.</td>
</tr>
<tr>
<td><strong>Remove all</strong></td>
<td>Deletes all entries from the <strong>List of meanings</strong>.</td>
</tr>
</tbody>
</table>
Update meaning | Clicking this assigns all entries in the List of meanings a new meaning. The meanings to be added are displayed in the Meanings (preview) column; the row with the variables has a green background.

Remove existing meanings | Allows meanings to be removed from variables.
If a variable is selected, all assigned meanings are displayed in the List of meanings. Meanings that are to be retained are deleted from the list by clicking on the Remove from list button. Clicking on the Update meaning buttons removes the meanings from the selected variables.

List of meanings | Lists all of the meanings assigned to the selected variables.

Remove from list | Deletes selected entry from the List of meanings.

Remove all | Deletes all entries from the List of meanings.

Update meaning | Clicking this removes all entries in the List of meanings from the selected variables. The row with the variables has a red background.

**Attention:** Changes and new entries are only written to the zenon variable once the Finish action in the Finish tab has been executed.
Example of color identification:

- Red: All meanings of the variable have been deleted.
- Green: Variable has received a new meaning.
**Waterfall filter**

You define the waterfall diagram in this tab. To do this, all variables must be assigned to the same equipment group. If variables from an archive are used, the archive and the variables must be assigned to the same equipment group.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of equipment groups</td>
<td>Selection of an equipment group.</td>
</tr>
<tr>
<td>List of projects</td>
<td>Selection of a project.</td>
</tr>
<tr>
<td>List of archives</td>
<td>Select an archive.</td>
</tr>
</tbody>
</table>

An equipment group and a project must be selected. As a option, it is also possible to select an archive from the appropriate equipment group.

No variables can be displayed in the **Waterfall** (on page 24) tab:
- No project was selected
- No equipment group was selected
- Objects were selected that are not assigned to the same equipment group

Waterfall

Waterfall definitions can be created and edited on this tab:
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>New</td>
<td><strong>Active:</strong> A new waterfall definition is created.</td>
</tr>
<tr>
<td>Update</td>
<td><strong>Active:</strong> An existing waterfall definition is edited. Selection from drop-down list.</td>
</tr>
<tr>
<td>Chart</td>
<td>Entry of a name for a new waterfall definition.</td>
</tr>
<tr>
<td>Save</td>
<td>Clicking on the button saves the entries. <strong>Note:</strong> All changes are only written to the zenon variable once the <strong>Finish</strong> action in the Finish tab has been executed.</td>
</tr>
</tbody>
</table>
| Variable list | Lists all variables that correspond to the configuration on the Waterfall filter (on page 23) tab. *bool* and *string* variables are not displayed.  
  The list can also be sorted by clicking on the column heading. Existing waterfall definitions are displayed in the **Waterfalls** column. New or amended waterfall definitions are displayed in the **Waterfalls (preview)** column. |
| Chart      | Waterfall definitions can be created or amended here by dragging & dropping. **Note:** All changes are only written to the zenon variable once the **Finish** action in the Finish tab has been executed. |

**CREATING A WATERFALL DEFINITION**

To create a new waterfall definition:

1. **Select** **New**
2. Move the desired variable by dragging & dropping in sequence in the **Chart** area
3. Arrange the bar according to the rules
4. Enter a name in the **Chart** input field
5. click on **Save**
6. The configuration is saved in the **Waterfalls (preview)** column
7. Switch to the **Finish** tab
8. Click on **Finish**.
RULES
The following rules apply when creating and editing waterfall definitions:

1. For the first bar, the variable in the upper left corner of the character area must be dragged.
2. The second bar can only be inserted below the first bar.
3. All other bars can be inserted either below the existing bar or to the right of an existing bar.
   - The first row can only contain one bar.
   - If a bar is inserted to the right of an existing bar, the bar above this is extended.
4. The selected variable is displayed in green.
5. Each variable can only be used once.
6. The bar contains an index:
   - First number: Row index
   - Second number: Column index
7. The name of the selected variable is displayed in the tooltip of the bar.

CHANGING THE COLOR OF A BAR
To change the color of a bar:

1. Right-click on the bar
2. The dialog to select the color opened:
3. select the desired color
4. click on OK

MOVING THE BAR
Bars can be moved if:

- It is a short bar
- The movement is within a row

To move a bar, drag & drop it to the new position. All other bars between the old and the new position are moved by one place.
DELETING A BAR
Bars can be deleted if:

- It is a short bar
- There is no other bar below or to the right

To delete a bar, drag & drop it to a free location outside the Chart field (but not in the variable list).

The bar is deleted. All other bars are moved accordingly.

SAVING A WATERFALL DEFINITION
To save a waterfall definition:

1. Enter a name in the Chart input field
2. Click on the Save button.
3. The definition is saved in the variable list and the new entry is displayed in the Waterfalls (preview) column
4. The new waterfall definition is only written to the zenon variable after clicking on the Finish button in the Finish tab.

EDITING A WATERFALL DEFINITION
To edit a new waterfall definition:

1. Select Update
2. Select the desired waterfall definition from the drop-down list
   
   Attention: Only definitions that correspond to the configuration in the Waterfall filter (on page 23) tab are offered
3. The waterfall definition is displayed in the Chart area
4. Change the definition in accordance with the rules:
   - Adding a bar:
   - Deleting a bar: If a bar is deleted, the variable is highlighted in red in the list.
   - Moving a bar:
Changing the color:

5. click on Save

6. All changes are displayed in the Waterfalls (preview) column

7. Switch to the Finish tab

8. Click on Finish.

Finish

In this tab, the changes are written to the variables in zenon and the result is displayed in the output field.

Clicking on the 'Finish' button writes the changes to the zenon variable in the Editor.

The changes made are displayed in the output field:
Update variable MEANINGS definition: Changes to the variables that are carried out and that concern the meanings.

Update variable WATERFALL definition: Changes to the variables that have been carried out and that concern the waterfall definition.

Notes on new and deleted entries, warnings and error messages.

When importing into zenon, the length of the entry is checked for the Resources label. This must not consist of more than 250 characters. If the entry is longer, the sequence is cut off after the 250th character and an error message is written in the output field of the 'Finish' tab.

3.1.2 Analyzer Export Wizard

The zenon Analyzer Export Wizard supports the export of metadata from zenon from version 7.0 SP0 for the zenon Analyzer.

The following can be exported:

- Data from the global project
  - equipment models
  - Alarm/event classes
  - Alarm/event groups
  - Users

- Data from selected projects:
  - Archives
- Variables

Note: The wizard is only available in English.

COMPATIBILITY:
The Analyzer Export Wizard works with zenon from version 7.00 SP0.

Install and call up wizard
The wizard is automatically installed together with zenon.
If a manual installation is necessary:

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 the folder `[Installation medium]\Setup\Wizard\zenon7.11\WizardsVSTA`

6. Select `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`

**Calling Up the 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**

![Analyzer Export Wizard](image)

When the wizard is opened, you receive an overview page that lists all exportable objects.

6. Start the wizard by clicking on **OK**

**Start window**

When the wizard is opened, you receive an overview page that lists all exportable objects.
The individual objects are configured for the export on individual tabs.

Click on the button with the arrow to navigate through the configuration (on page 33) of the export.

**Configuration**

When exporting with the Analyzer Export Wizard, all modules selected in the Settings (on page 35) tab are offered in sequence for detailed configuration. You get to the next level by clicking on the button with the right arrow. You can also select tabs directly by clicking on the title of the tab.

The following tabs are available for configuration of the export:

- **Settings (on page 35)**: Options to collect the metadata
- **Equipment model**: (on page 39) Export of the model groups from the global project
- **Event classes**: (on page 42): Alarm/Event classes from global project
- **Event Event groups**: (on page 44): Alarm/event groups from global project
Attention: Only one global project can be exported to the database! Workspaces with projects that are to be exported to the database must include this global project.

Navigation

Navigation through the tabs is carried out by means of the navigation bar in the lower area of the wizard window:
<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Column left</td>
<td>Goes back one tab in the wizard process.</td>
</tr>
<tr>
<td>Column right</td>
<td>Goes forward one tab in the wizard process.</td>
</tr>
<tr>
<td>Export</td>
<td>Exports the data to the Analyzer database.</td>
</tr>
<tr>
<td></td>
<td>Is only active if the Finish tab is opened.</td>
</tr>
<tr>
<td>Cancel</td>
<td>Closes the wizard without exporting.</td>
</tr>
<tr>
<td></td>
<td>When closing, a dialog asks if the configuration is to be saved</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>Yes</strong>: writes the settings configured in the Settings (on page 35) tab to the registry and closes the wizard; the wizard is opened with these settings the next time it is restarted</td>
</tr>
<tr>
<td></td>
<td>‣ <strong>No</strong>: closes the wizard without saving the configuration</td>
</tr>
<tr>
<td></td>
<td>The configuration is saved for each specific user.</td>
</tr>
</tbody>
</table>

Individual tabs can also be selected by clicking directly on the title of the tab.

**Settings**

In this tab:

1. You define the database to which the wizard connects

2. You define general options for exporting
3. You start the data readout
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Settings</strong></td>
<td>Information and notes on current export processes.</td>
</tr>
<tr>
<td><strong>Database settings</strong></td>
<td>Connection settings to the Analyzer server.</td>
</tr>
<tr>
<td>DB host</td>
<td>Computer on which the database is located.</td>
</tr>
<tr>
<td>DB instance</td>
<td>Database instance</td>
</tr>
<tr>
<td>DB name</td>
<td>Name of the database.</td>
</tr>
<tr>
<td><strong>Authentication</strong></td>
<td>Type of authentication:</td>
</tr>
<tr>
<td></td>
<td>- Windows Authentication: <em>Windows login information is used.</em></td>
</tr>
<tr>
<td></td>
<td>- SQL Server Authentication: <em>Login with data from an SQL server user.</em></td>
</tr>
<tr>
<td>User name</td>
<td>Entry of the user name.</td>
</tr>
<tr>
<td></td>
<td><em>Only for login with SQL Server Authentication. Display only with Windows Authentication.</em></td>
</tr>
<tr>
<td>Password</td>
<td>Entry of the password.</td>
</tr>
<tr>
<td></td>
<td><em>Only for login with SQL Server Authentication. No input possible with Windows Authentication.</em></td>
</tr>
<tr>
<td>Remember password</td>
<td>Password is saved for next connection.</td>
</tr>
<tr>
<td></td>
<td><em>Only for login with SQL Server Authentication. Inactive for Windows Authentication.</em></td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>General options for the export.</td>
</tr>
<tr>
<td>Load every project of this workspace into the memory</td>
<td>Active: <em>Loads all projects present in the workspace, even if they are not active and not set to Keep project in memory.</em></td>
</tr>
<tr>
<td>Keep the existing data in the Analyzer database</td>
<td>Active: <em>Only entries from the workspace are written to the database.</em></td>
</tr>
<tr>
<td></td>
<td>Inactive: <em>Entries in the database are also updated or deleted.</em></td>
</tr>
<tr>
<td></td>
<td>Exception: <em>Projects are not deleted</em></td>
</tr>
<tr>
<td>Preselect existing</td>
<td>Active: <em>Entries already present in the database are preselected in</em></td>
</tr>
</tbody>
</table>
### Analyzer database content

<table>
<thead>
<tr>
<th><strong>Load Data</strong></th>
<th>the individual areas.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Load Data</strong></td>
<td>Clicking on the button loads, depending on the Load every project of this workspace into the memory parameter - the data from the currently loaded project into the wizard. In doing so, a check is made to see if data is present in the Analyzer database. Pre-existing data is combined with the data from the workspace and loaded into the wizard. In the event of naming conflicts, a dialog to rectify the error is called up. If the loading of data has been successfully concluded, the export can be configured in the following tabs.</td>
</tr>
</tbody>
</table>

### RENAMING OBJECTS

Objects must always be named the same in the Analyzer database and in zenon. If objects that are already present in the database are renamed in zenon, these changes can be accepted or rejected when the data is combined. Rejection of the changes leads to the wizard being closed, because only objects with identical names can be handled correctly.

### DIALOG FOR RENAMING

In the event of conflicts in the naming of objects, a dialog for dealing with the error is opened:
<table>
<thead>
<tr>
<th>TAGs</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of amended objects</td>
<td>Contains all objects that were changed. Previous name and new name are displayed. The following renamed objects are displayed in the list:</td>
</tr>
<tr>
<td></td>
<td>‣ Name of the equipment models</td>
</tr>
<tr>
<td></td>
<td>‣ Names of the alarm/event classes</td>
</tr>
<tr>
<td></td>
<td>‣ Names of the alarm/event groups</td>
</tr>
<tr>
<td></td>
<td>‣ Project name</td>
</tr>
<tr>
<td></td>
<td>‣ Variable name</td>
</tr>
<tr>
<td></td>
<td><strong>Exceptions:</strong></td>
</tr>
<tr>
<td></td>
<td>‣ Users are always recreated</td>
</tr>
<tr>
<td></td>
<td>‣ Archive names are only created once in the database as a visual name and can be overwritten in the zenon Analyzer</td>
</tr>
<tr>
<td>Rename</td>
<td>Renames all objects listed in the database, closes the dialog and stops reading in data.</td>
</tr>
<tr>
<td>Cancel</td>
<td>Leaves the previous name in the database, finishes reading in data and closes the wizard.</td>
</tr>
</tbody>
</table>

**Equipment model**

Configuration of the model groups to be exported from the global project.

⚠️ **Attention**

*Each equipment group in zenon may only be assigned to one individual time model.*

*If several time model groups are assigned, the Analyzer Wizard Export uses the first that it finds and exports this to the metadata of the Analyzer. Other time model groups are ignored.*
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment modeling</td>
<td>Information and notes on exporting.</td>
</tr>
<tr>
<td>Selection of equipment/medium</td>
<td>Drop-down list to select what is offered in <em>List of equipment models/media</em> for configuration:</td>
</tr>
<tr>
<td></td>
<td>• Plant: displays equipment models</td>
</tr>
<tr>
<td></td>
<td>• Media: displays media</td>
</tr>
<tr>
<td>List of equipment models/media</td>
<td>List field with the possibility to select equipment models and model groups or media. 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 is always displayed in the individual nodes as it is stored in the database. If the name was changed, the original name from the zenon project is displayed in brackets.</td>
</tr>
<tr>
<td></td>
<td>Equipment groups that were deleted in the global project are no longer displayed.</td>
</tr>
<tr>
<td></td>
<td>If, in the <em>Settings</em> tab, the option <em>Keep the existing data in the Analyzer database</em> was selected, amended objects in the database are deleted or updated.</td>
</tr>
<tr>
<td>Select all</td>
<td>Clicking on the button selects all equipment groups.</td>
</tr>
<tr>
<td>Deselect all</td>
<td>Clicking on the button deselects all equipment groups.</td>
</tr>
</tbody>
</table>
Alarm/event classes

Configuration of the alarm/event classes which should be exported from the global project.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm/event classes</td>
<td>Information and notes on exporting.</td>
</tr>
<tr>
<td>List of the alarm/event classes</td>
<td>List field with the possibility to select the alarm/event classes. To select an entry, activate the checkbox in front of the entry.</td>
</tr>
<tr>
<td></td>
<td><strong>Sorting:</strong> Clicking on the column identifier sorts the entries after this column upwards or downwards.</td>
</tr>
<tr>
<td></td>
<td><strong>Multiple selection:</strong> If several rows are highlighted, a click in the check box sets the options for all selected rows.</td>
</tr>
<tr>
<td></td>
<td>Alarm/event classes that were deleted in the global project are no longer displayed here.</td>
</tr>
<tr>
<td></td>
<td>If, in the <strong>Settings</strong> tab, the option <strong>Keep the existing data in the Analyzer database</strong> was selected, amended objects in the database are deleted or updated.</td>
</tr>
<tr>
<td>Select all</td>
<td>Selects all entries in the list and activates the checkboxes.</td>
</tr>
<tr>
<td>Deselect all</td>
<td>Selects all entries in the list and deactivates the checkboxes.</td>
</tr>
</tbody>
</table>
Event groups

Configuration of the alarm/event groups which should be exported from the global project.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm/event groups</td>
<td>Information and notes on exporting.</td>
</tr>
<tr>
<td>List of the alarm/event groups</td>
<td>List field in which you can select alarm/event groups. To select an entry, activate the check box in front of the entry.</td>
</tr>
<tr>
<td></td>
<td><strong>Sorting:</strong> Clicking on the column identifier sorts the entries after this column upwards or downwards.</td>
</tr>
<tr>
<td></td>
<td><strong>Multiple selection:</strong> If several rows are highlighted, a click in the check box sets the options for all selected rows.</td>
</tr>
<tr>
<td></td>
<td>Alarm/event classes that were deleted in the global project are no longer displayed here.</td>
</tr>
<tr>
<td></td>
<td>If, in the Settings tab, the option Keep the existing data in the Analyzer database was selected, amended objects in the database are deleted or updated.</td>
</tr>
<tr>
<td>Select all</td>
<td>Selects all entries in the list and activates the checkboxes.</td>
</tr>
<tr>
<td>Deselect all</td>
<td>Selects all entries in the list and deactivates the check boxes.</td>
</tr>
</tbody>
</table>
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 notes on exporting.</td>
</tr>
<tr>
<td>List of users</td>
<td>List field with possibility to select users. To select an entry, activate</td>
</tr>
<tr>
<td></td>
<td>the checkbox in front of the entry.</td>
</tr>
<tr>
<td></td>
<td><strong>Sorting:</strong> Clicking on the column identifier sorts the entries after</td>
</tr>
<tr>
<td></td>
<td>this column upwards or downwards.</td>
</tr>
<tr>
<td></td>
<td><strong>Multiple selection:</strong> If several rows are highlighted, a click in</td>
</tr>
<tr>
<td></td>
<td>the check box sets the options for all selected rows.</td>
</tr>
<tr>
<td></td>
<td>If, in the <strong>Settings</strong> tab, the option <em>Keep the existing</em> data in the</td>
</tr>
<tr>
<td></td>
<td>Analyzer database *was selected, amended objects in the database are deleted</td>
</tr>
<tr>
<td></td>
<td>or updated.</td>
</tr>
<tr>
<td></td>
<td>If a user was renamed in zenon they are considered new and recreated in the</td>
</tr>
<tr>
<td></td>
<td>project. The previous user is deleted.</td>
</tr>
<tr>
<td>Select all</td>
<td>Selects all entries in the list and activates the checkboxes.</td>
</tr>
<tr>
<td>Deselect all</td>
<td>Selects all entries in the list and deactivates the checkboxes.</td>
</tr>
</tbody>
</table>

**Projects**

Configuration of the local projects which should be exported. The names for the server and standby-server can be changed here. To do this:

1. Highlight the project in the list of projects
2. Enter the desired name for the server and standby-server
If the name of the server or standby server is changed in the zenon project, then this is only updated in the analyzer database if the Network active setting was activated in the project properties.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projects</td>
<td>Information and notes on exporting.</td>
</tr>
<tr>
<td>Project list</td>
<td>List field with possibility to select for projects. To select an entry, activate the checkbox in front of the entry. Sorting: Clicking on the column identifier sorts the entries after this column upwards or downwards. Multiple selection: If several rows are highlighted, a click in the check box sets the options for all selected rows.</td>
</tr>
<tr>
<td>Server</td>
<td>Address of the server for the project selected in the list window.</td>
</tr>
<tr>
<td>Standby</td>
<td>Address of the server for the project selected in the list window.</td>
</tr>
<tr>
<td>Select all</td>
<td>Selects all entries in the list and activates the checkboxes.</td>
</tr>
<tr>
<td>Deselect all</td>
<td>Selects all entries in the list and deactivates the check boxes.</td>
</tr>
</tbody>
</table>
**Historian**

Selection of the archive from the selected projects (on page 47). Only the main archive is displayed. Aggregated archives are not displayed in the list, but are also selected with the main archives and written to the database.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Historian</td>
<td>Information and notes on exporting.</td>
</tr>
<tr>
<td>Archive list</td>
<td>List field with possibility to select for archives. To select an entry, activate the checkbox in front of the entry.</td>
</tr>
<tr>
<td></td>
<td><strong>Sorting:</strong> Clicking on the column identifier sorts the entries after this column upwards or downwards.</td>
</tr>
<tr>
<td></td>
<td><strong>Multiple selection:</strong> If several rows are highlighted, a click in the check box sets the options for all selected rows.</td>
</tr>
<tr>
<td></td>
<td>If, in the <strong>Settings tab</strong>, the option <strong>Keep the existing data in the Analyzer database</strong> was selected, amended objects in the database are deleted or updated.</td>
</tr>
<tr>
<td>Select all</td>
<td>Selects all entries in the list and activates the checkboxes.</td>
</tr>
<tr>
<td>Deselect all</td>
<td>Selects all entries in the list and deactivates the check boxes.</td>
</tr>
</tbody>
</table>
Variables

Configuration of the variables from the local project which should be exported. When selecting variables, the entries offered can be prefiltered.
Parameters | Description
--- | ---
Variables | Information and notes on exporting.

Variable Filter | Selection of the variable filter using the following option fields:
- **Show all**: All variables are displayed.
- **Historians only**: Only archive variables are displayed.
- **Equipment groups only**: Only variables are displayed which are part of the selected Equipment model (on page 39).
- **Show not selected only**: Only variables that were not selected are displayed.

Filter row | Input of alphanumerical characters according to which the **List of variables** is to be filtered.

List of variables | List field with possibility to select variables. To select an entry, activate the checkbox in front of the entry.
- **Sorting**: Clicking on the column identifier sorts the entries after this column upwards or downwards.
- **Multiple selection**: If several rows are highlighted, a click in the check box sets the options for all selected rows.

If, in the **Settings** tab, the option **Keep the existing data in the Analyzer database** was **selected**, amended objects in the database are deleted or updated.

Select all | Selects all entries in the list and activates the checkboxes.

Deselect all | Selects all entries in the list and deactivates the checkboxes.

**RULES FOR THE EXPORT OF VARIABLES WITH REACTION MATRICES**

If linked variables are exported with reaction matrices, the limit value text and the status value of the reaction matrix statuses are also exported to the **STATUSNAME** table in the metadata database of the Analyzer. Because only certain states can be evaluated in the reports, they must be pre-sorted using the wizard.

The following statuses of the reaction matrices can be exported or excluded:
### Rema

<table>
<thead>
<tr>
<th>Rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>The default status is ignored.</td>
</tr>
<tr>
<td>If several statuses with the same status and limit value condition are set, then only the first status and its status text are exported.</td>
</tr>
<tr>
<td>Only statuses with a value that is equal to a limit value are exported (limit value condition).</td>
</tr>
<tr>
<td>The limit value conditions greater than, less than, as desired and range are ignored.</td>
</tr>
</tbody>
</table>

### Multi numeric

- Correspond to the rules for `numeric`.
- Substatuses are also ignored.

### Binary

- Only statuses that have value bits set consistently from right to left in the bit mask (0 or 1) are set.
  
  For example:
  ```
  ........ ....10.. 1
  ........ ....100 .
  ........ ....100 1
  Ignoriert werden zum Beispiel:
  ........ ......... 1
  ........ .........00 1
  ........ .........10..100 1
  ```

### Multi binary

- Correspond to the rules for `Binary`.
- In addition, substatuses and statuses are also ignored with edge definitions in the bit mask.

### String

- Are completely ignored and not exported.

---

**Finish**

To export the configured data:
1. In the Finish tab, click on the **Export** button

2. The export is started
3. The exported elements are shown in the output window with the attendant success and error messages.
   In addition, the number of objects that have been added, replaced or deleted, and the number of errors that occurred are shown.

4. Click on close to close the wizard

**RECONFIGURING THE WIZARD**

To reconfigure the wizard:

1. Open the Settings (on page 35) tab
2. Click on button **Load data**
3. Configure the tabs
Exit wizard

To close the wizard:

- Click on the Cancel button
- A dialog asks if the configuration should be saved
  - Clicking on Yes writes the settings configured in the Settings (on page 35) tab to the registry and closes the wizard; the wizard is opened with this configuration next time it is started
  - Clicking on No closes the wizard without saving the configuration

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 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.
Information

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 conversions 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
  - Lines
  - Rounded rectangle
  - Circle/ellipse
  - Text
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 62)
- Settings (on page 63)
- Finish (on page 65)

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 63) 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><strong>Driver</strong></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><strong>PDIAG XML file</strong></td>
<td>Selection of the XML file to be imported.</td>
</tr>
<tr>
<td><strong>Identification</strong></td>
<td>Optional entry for variable identification. This entry can be filtered in the variable list.</td>
</tr>
<tr>
<td><strong>Net address</strong></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><strong>Alarm group</strong></td>
<td>Sets the alarm/event group of the messages to be imported.</td>
</tr>
<tr>
<td><strong>Attention</strong>: The wizard does not create alarm/event classes in zenon independently. These must be manually created before the import.</td>
<td></td>
</tr>
<tr>
<td><strong>In IPA</strong></td>
<td>Active: Sets the Save in IPA database property for the variables. This transfers the messages to the industrial performance analyzer.</td>
</tr>
<tr>
<td><strong>Get Alarm Class</strong></td>
<td>Active: The message priority set in Simatic Manager is interpreted as zenon alarm/event class.</td>
</tr>
<tr>
<td><strong>Attention</strong>: The wizard does not create alarm/event groups in zenon independently. These must be manually created before the import.</td>
<td></td>
</tr>
</tbody>
</table>

The import is started with **Finish**. This button is only active in the Finish (on page 65) 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:

![Wizard import screen](image)

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 70): exports WinCC screens, frames and symbols from WinCC in an XML file
- WinCC Import Wizard (on page 73): imported
  - 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 70)

**Installation**

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

**Information**

*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.
Information

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. The wizard is added to the VSTA workspace by starting the update. If you want to carry out this step later, you can return to this dialog in the zenon Editor via menu File - Update wizards… To get to this dialog at any time.

Start the VSTA Editor in the zenon Editor in the File - Open VSTA Editor… and select, in the Project Explorer window, the References node. 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)

  ![Project Explorer](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 zenon 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.

**Information**

**At the moment XML files can be created from WinCC projects of versions 7.0 and 7.0 SP1.**
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 83) (the XML files created with the WinCC Graphics Converter (on page 70) are converted to frames, screens and symbols in zenon)
- Import of the WinCC Tags (on page 79) (only S7 TCP)
- Import of the WinCC Structure Tags (on page 77) (only S7 TCP)
- Import Alarm Limits (on page 80)
- Import Archive Tags (on page 82)

**STARTING THE 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 Export/Import node
5. select the WinCC Import Wizard
6. Start the wizard by clicking on OK

The wizard is divided into areas:

- Welcome (on page 74): Overview over the wizard.
- Settings (on page 75): 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 77): Structure Tags from WinCC
  - TAGs (on page 79) Tags from WinCC
  - Alarm Limits (on page 80): Alarm classes and alarms from WinCC
  - Archive TAGs (on page 82) Archive files from WinCC
- Screens (on page 83): Import of the screens from WinCC via the WinCC Graphics Converter (on page 70)

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

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. For example: 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 _R
      **Note:** The project must be loaded and running in the WinCC Editor. Otherwise the project is not available in the SQL 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:
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.

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>TAG 1</th>
<th>TAG 2</th>
<th>TAG 3</th>
<th>TAG 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAG1</td>
<td>TAG2</td>
<td>TAG3</td>
<td>TAG4</td>
</tr>
<tr>
<td>TAG5</td>
<td>TAG6</td>
<td>TAG7</td>
<td>TAG8</td>
</tr>
<tr>
<td>TAG9</td>
<td>TAG10</td>
<td>TAG11</td>
<td>TAG12</td>
</tr>
<tr>
<td>TAG13</td>
<td>TAG14</td>
<td>TAG15</td>
<td>TAG16</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 70) 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 folder.
<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 on the screen.</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.

ERROR HANDLING

Errors when importing screens are displayed in the zenon output window when the Runtime files are created.

<table>
<thead>
<tr>
<th>Error message</th>
<th>Error handling</th>
</tr>
</thead>
<tbody>
<tr>
<td>The symbol &quot;could not be found in the symbol library&quot;!</td>
<td>A placeholder for non-interpretable elements has been placed in the screen. Background: A linked symbol is created in the screen using the wizard for each non-interpretable element. This is not in the symbol library however. You therefore have the opportunity to check to see if elements (placeholders) in a screen still need work carried out on them.</td>
</tr>
<tr>
<td>WRN: (FDV_RECETTE_TUNNEL_T_POS_DETAILS_FOU2-&gt;(ZONE_C NS0)Variable: could not be found in the project!</td>
<td>Signifies variable names, that are stored in WinCC in I\O Field Element but are not (including in WinCC) created as variables.</td>
</tr>
</tbody>
</table>
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 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

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 Table Wizard

The Language Table Wizard replaces the old Language Change Wizard (VBA).

The Wizard

- Searches the active projects for translatable texts or key words (text marked with a "@") and
- writes this
  - either to the selected language table in the active project or
  - in the global project as an option.

For reference purposes, at least one table (ZENONSTR.TXT) must be selected for the import.

If texts without a "@" character are found, these can be set as a key word in a project. To do this, a "@" is written at the start of the text.

Note: The wizard is only available in English.
 Calling up the wizard

The wizard can also be selected directly in the dialog for starting wizards.

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 Language Table folder
4. Select Language Table Wizard there
5. Click on OK
6. The wizard starts with the welcome page
Start window

When opening the wizard, you get an overview page with English-language documentation for the wizard.

Welcome to the language table wizard!

The wizard searches through the active project for translatable text or keywords (marked with @) and writes these selected language tables of the project or also optionally in the global project. The individual settings for the import can be changed in the "Settings" tab.

Settings

In the "Import options" grouping, it is possible to select if existing text in the language table is to be overwritten or if translatable texts found are to be set as keywords in the project (texts are marked in the project with @) and whether the language tables from the global project should be used.

In the "Select language tables", depending on the setting of the "Add keywords to language table global project" option, the language tables of the active project or the global project are displayed. If a keyword is entered in the selected language tables as a text. At least one table must be selected.

In the "Project options" grouping, it is possible to select which project-related texts of keywords are to be searched for.

In the "Screen elements" grouping, it is possible to select which screen elements are to be searched.

Finish

On these tabs, the search for translatable texts and keywords can now be started, which, after the search options have been set, are then searched for and written to the selected language tables.
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

It is possible to select the following in the "Import options" group:

- Overwrite existing language table entries
- Add keywords to language table global project
- Convert texts into keywords (add leading '@' to all texts found)

Select language tables:
- ZENONSTR.TXT
- TUTORIAL-PORTUGUESE.TXT
- TUTORIAL-POLISH.TXT

Project options:
- Variable tag name
- Variable limit text
- REMA limit text
- Units
- Screen name
- AML and CEL column names
- Menu

Screen elements:
- Numerical value
- Button
- Dynamic text
- Static text
- Combo-/Listbox
- Combined element
- Multipin
- Universal slider
- Bar display
- Clock
- Switch
- Pointer instrument
- Trend element
- Message element
- Embed symbol
- Linked symbol
- Special type elements
- Whether existing texts are to be overwritten in the selected language table,
- Whether translatable texts found are to be set as key words in the project (texts are marked in the project with a @) and
- whether the language tables are to be used by the global project.

**SELECT LANGUAGE TABLES**

In the "Select language tables", depending on the setting of the "Add keywords to language table global project" option, the language tables of the active project or the global project are displayed. The key word is entered in the selected language tables as a text. At least one table must be selected.

**PROJECT OPTIONS**

In the "Project options" grouping, it is possible to select which project-related texts of key words are to be searched for.

**SCREEN ELEMENTS**

In the "Screen elements" grouping, it is possible to select which screen elements are to be searched.
The search for translatable text and key words can now be started on this tab. To do this, click the **Finish** button.

After this, a search is carried out and it is possible to write to the selected language tables.
3.3.2 Language Translation Wizard

This wizard is for the preparation of data for the Project Translation Interface, a translation tool.

In doing so, all relevant data for translation is prepared and compressed into a ZIP file. This ZIP file can then be unzipped in the Project Translation Interface and the language tables can be edited or supplemented. After editing, the ZIP file can be loaded into the wizard and the edited language tables can be reimported into the project.

Note: The wizard is only available in English.

License information

Part of the standard license of the Editor and Runtime.

The Language Translation Wizard is also supplied with the paid-for Project Translation Interface.

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 **Language Table** folder

4. Select **Language Translation Wizard** there

![Image of the wizard window]

5. Click on **OK**

6. The wizard starts with the welcome page
Start window

When opening the wizard, you get an overview page with English-language documentation for 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.

Export

When carrying out the export, the wizard evaluates all texts from screen elements, limits and other project objects, which are translatable text marked with a @.
These texts are prepared into an XML file and exported with the selected language tables as a ZIP file. In addition, a screenshot of all screens is created and also provided in the ZIP file. The ZIP file also contains the font lists of the selected project and those of the global project.
**Button**

Zip name:

C:\

**Description**

File name

Save location of the export file. A click on button . . . Opens the file browser for selecting a target folder.

**List of language files**

List field with the possibility to select the existing language files in the project.

**Select all**

Selects all entries in the list and activates the checkboxes.

**Deselect all**

Selects all entries in the list and deactivates the checkboxes.

**Export**

Exports the files to the target folder.

Is only active if one or more language tables are selected.

**Column left**

Goes back one tab in the wizard process.

**Column right**

Goes forward one tab in the wizard process.

**Cancel**

Closes the wizard without exporting.

⚠️ **Attention**

*The following special characters must not be used in the screen names:*

/:\*<>

*These special characters are removed and replaced by a serial number.*
Import

The ZIP file to be imported can be selected in this tab.
### System Text Wizard

The System Text Wizard allows the import of system text into the language table. System texts are runtime texts that are used in zenon dialogs and menus and cannot be changed by the user. In order to be able to make these texts, which are predetermined by zenon, compatible with language switching, these texts must first be imported into the language table with this wizard. The number of the key words and texts imported can be limited in the settings.

**Note:** The wizard is only available in English.
Calling up the wizard

The wizard can also be selected directly in the dialog for starting wizards.

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 Language Table folder

4. Select System Text Wizard there

5. click on OK

6. The wizard starts with the welcome page
Start window

When opening the wizard, you get an overview page with English-language documentation for the wizard.

Welcome to the system text wizard!

The system text wizard allows the import of system text into the language table. System texts are Runtime texts that are used in zenon dialogs and menus and cannot be changed by the user.

In order to be able to make these texts, which are predetermined by zenon, compatible with language switching, these texts must first be imported into the language table with this wizard. The number of the keywords and texts imported can be limited in the settings.

Settings

The settings for importing the system texts are combined together in the "Settings" tab.

General settings can be changed in the "Project settings" grouping: The "Overwrite existing language table" option denotes whether texts with existing keywords are to be overwritten. "Add keyword to language table global project" stipulates whether system texts are to be written to the project active in zenon (checkbox is not activated) or to the zenon global project (if the checkbox is activated). Depending on the option selected in the "Select Language" grouping, existing language tables can be selected.

The languages supported by zenon are available in the "Select language" grouping. Activation of the corresponding checkbox selects the language to be written into the language table. It is possible to select multiple items in this process. The relevant language table can be selected in the drop-down list. These language tables must have already been configured in zenon.

System texts can be activated according to modules in the "Select category" grouping.

Finish

Clicking on the "Finish" button starts the import with the given settings. These settings can then be saved once the wizard has been exited.
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

The settings for importing the system texts are combined together in the "Settings" tab.
PROJECT SETTINGS

General settings can be changed in the "Project settings" grouping: The "Overwrite existing language table" option denotes whether texts with existing key words are to be overwritten. "Add keyword to language table global project" stipulates whether system texts are to be written to the project active in zenon (checkbox is not activated) or to a zenon global project (if the checkbox is activated). Depending on the option selected in the "Select Language" grouping, existing language tables can be selected.

SELECT LANGUAGE

The languages supported by zenon are available in the "Select language" grouping. Activation of the corresponding checkbox selects the language to be written into the language table. It is possible to select multiple items in the process. The relevant language table can be selected in the drop-down list. These language tables must have already been configured in zenon.

SELECT CATEGORY

System texts can be activated according to modules in the "Select category" grouping.
Finish

Clicking on the "Finish" button starts the import with the given settings. These settings can then be saved once the wizard has been exited.

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 a 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 be only 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.

![Wizard Interface](image)

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>Parameters</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 (*.cof). The file is selected from the list. The list displays all available configuration files in the selected folder (Select directory). <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 (*.cof) 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 Project description of the dialog. It is taken over by the loaded project and can be edited. For checking purposes all changes are displayed on tab Finish (on page 153).</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
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Network** | Properties for use of the project in a network. More in the online help. This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows: 

\textit{GRP\_Net} |

| **Active** | Network active 

Active: The project is used as a network project. A server must be defined. Inactive: The project is a standalone project. (Default) Inactive: More in the online help. This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows: 

\textit{NetActive} |
### Server name

**Server 1**

*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 a name. If the name is changed, this cannot be reloaded. It is updated only after the Runtime has been restarted.

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

NetServer

### Standby name

**Network active**

*Active:* The project is used as a network project. A server must be defined.

*Inactive:* The project is a standalone project. (Default) Inactive:

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

NetActive

### Redundancy type

**Redundancy type**
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 function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*NetType*
<table>
<thead>
<tr>
<th>Network authorization</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Authorization</td>
<td>Properties for the operating authorization in the network.</td>
</tr>
<tr>
<td></td>
<td>More in the online help</td>
</tr>
<tr>
<td></td>
<td>This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:</td>
</tr>
<tr>
<td></td>
<td><strong>GRP_Token</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authorization in network active</td>
</tr>
<tr>
<td>Only available if property <strong>Network active</strong> is active.</td>
</tr>
<tr>
<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><strong>Active</strong>: Only on computer can operate the project at a time (e.g. acknowledge alarms, write set values).</td>
</tr>
<tr>
<td><strong>Inactive</strong>: Several computers can operate the project at the same time.</td>
</tr>
<tr>
<td>(Default) <strong>Inactive</strong>:</td>
</tr>
<tr>
<td>More in the online help</td>
</tr>
<tr>
<td>This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:</td>
</tr>
<tr>
<td><strong>NetTokenActive</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Timeout for request [s]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeout for request [s]</td>
</tr>
<tr>
<td>Only available if property <strong>Authorization in network active</strong></td>
</tr>
</tbody>
</table>
is active.
If the authorization in the network is blocked by a station, it can be requested by another computer. Within the time limit defined here 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 function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

NetTokenQuestion
<table>
<thead>
<tr>
<th><strong>Timeout for acknowledgment [s]</strong></th>
<th><strong>Timeout for authorization [s]</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Only available if property <strong>Authorization in network active</strong> 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 <strong>Timeout [s]</strong>. More in the online help</td>
<td></td>
</tr>
</tbody>
</table>

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows: 

`NetTokenQuit`

<table>
<thead>
<tr>
<th><strong>History of changes</strong></th>
<th><strong>History of changes</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>History of changes</td>
<td>Properties for the history of changes. More in the online help</td>
</tr>
</tbody>
</table>

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows: 

`GRP_ChangeLog`

<table>
<thead>
<tr>
<th><strong>Active</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active:</strong> Changes to the project are also logged. <strong>Inactive:</strong> Changes to the project are not logged. (Default) <strong>Inactive:</strong></td>
</tr>
</tbody>
</table>
More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

**ChangeLogAktiv**

<table>
<thead>
<tr>
<th>Detailing level</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Detailing level</strong></td>
</tr>
<tr>
<td><strong>Only available if property History of changes active is active.</strong></td>
</tr>
<tr>
<td><strong>Selection of details levels from drop-down list.</strong></td>
</tr>
<tr>
<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>- <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>- <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 traceability of the changes of values possible.</td>
</tr>
<tr>
<td><strong>Default:</strong> Properties</td>
</tr>
</tbody>
</table>

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

**ChangeLogState**
User administration

Settings for the user administration:
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
</table>
| User administration | User administration  
Project-related properties for user administration.  
More in the online help  
This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:  
**GRP_Password** |
| Delete users        | Deleting users  
Active: Deletion of a user in Runtime is permitted.  
Inactive: Users can only be marked as deleted. The users remain in the list of users, but are no longer valid for operation in Runtime (in accordance with FDA guidelines).  
Default: active  
More in the online help  
This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:  
**DelUser** |
| Minimum password length | Min. password length  
Minimum number of characters for a password.  
Minimum: 0.  
Maximum: 20.  
Default: 6.  
More in the online help |
This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

MinPwLength
### 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 function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

**PWValid**

### Number of invalid user name inputs

**Min. password length**

Minimum number of characters for a password.

- **Minimum:** 0.
- **Maximum:** 20.
- **Default:** 6.

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

**MinPwLength**

### Number of invalid password inputs
<table>
<thead>
<tr>
<th>Max. password error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of incorrect password entries. The corresponding user is blocked if this number is exceeded. A corresponding entry is made in the Chronological Event List (CEL). Only an administrator can unlock them again. Minimum: 0. Maximum: 65535. Default: 3.</td>
</tr>
</tbody>
</table>

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*PasswordTries*
<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:</td>
</tr>
<tr>
<td></td>
<td>[PC name]:[port]/[organization]</td>
</tr>
<tr>
<td></td>
<td><strong>Example:</strong> <code>w3k:50000/O=711,c=com</code></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 function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:</td>
</tr>
<tr>
<td></td>
<td><strong>ADAM</strong></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>
</tbody>
</table>
|                             | This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:
### ADAMUser

**ADAM password**

- **ADAM/AD-LDS password**
  - Password of the local user of the ADAM/AD LDS PC.
  - More about the AD LDS in the online help.
  - More about ADAM in the online help.

  This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

  **ADAMPwd**

**Log out/log in**

- Properties for log in and log out.

**Activate automatic logout**

- **Activate automatic logout**
  - **Active:** The user is automatically logged out if there is no operation for the defined time.
  - **Inactive:** The user is not automatically logged out by the system.
  - (Default) Inactive:

    More in the online help

  This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

  **AutoLogout**

**Activate temporary login**

- **Temp. login active**
  - **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. The user is automatically logged
**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. **Default:** active.

**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 function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*TempLogin*
Locked buttons style

Locked buttons

Only available if the Temp. login active property is inactive.
Defines the appearance of buttons that are blocked due to the settings of the operating authorizations. 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 function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*DisabledButtonStyle*

| 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.
### Parameters and Description

<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>Chronological Event List Properties for administration of the Chronological Event List (CEL). More in the online help This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows: <code>GRP_CEL</code></td>
</tr>
</tbody>
</table>
| **CEL active** | **CEL active**

**Active**: The Chronological Event List (CEL) is active in the Runtime. Events are recorded and the CEL is available.

**Inactive**: No event are recorded.

Default: active

**Note**: Changes take effect after the Runtime has been restarted.

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

`CELAdminActive`

<p>| <strong>Update automatically</strong> | <strong>Update automatically</strong> Only available if property CEL active is active. Active: During the time the CEL is opened in the |</p>
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Runtime, new events</td>
<td>new events are immediately added when they occur.</td>
</tr>
<tr>
<td>Inactive: As long</td>
<td>as the CEL is open, no new entries are added. The new entries are added</td>
</tr>
<tr>
<td>Default: active</td>
<td>when the CEL is opened the next time.</td>
</tr>
</tbody>
</table>

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

**CELSpontan**
<table>
<thead>
<tr>
<th>Print system messages</th>
<th>Print system messages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active</strong>: At online printing system messages are also printed. <strong>Inactive</strong>: At online printing system messages are not printed. <strong>Default</strong>: active</td>
<td></td>
</tr>
<tr>
<td>More in the online help</td>
<td></td>
</tr>
<tr>
<td>This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:</td>
<td></td>
</tr>
<tr>
<td><strong>CEL SysMsgPrint</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Long dynamic limit texts CEL</th>
<th>Long dynamic limit texts CEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>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. <strong>Active</strong>: 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 field can therefore been used for comments. Dynamic limit texts may have a maximum length of 254 characters. <strong>Inactive</strong>: The comment field is used for dynamic limit texts and is therefore not available for comments. <strong>Default</strong>: inactive.</td>
<td></td>
</tr>
<tr>
<td>More in the online help</td>
<td></td>
</tr>
<tr>
<td>This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:</td>
<td></td>
</tr>
</tbody>
</table>
class name) and in XML export (without class name) as follows:

`CELLongDynLimits`
<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature text editable</td>
<td><strong>Active</strong>: A dialog to edit the signature text is opened in Runtime. &lt;br&gt;<strong>Inactive</strong>: The signature text cannot be changed in Runtime. &lt;br&gt;(Default) Inactive:</td>
</tr>
<tr>
<td></td>
<td>More in the online help</td>
</tr>
<tr>
<td></td>
<td>This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:</td>
</tr>
<tr>
<td></td>
<td>\textit{EditSignature}</td>
</tr>
<tr>
<td>Data storage CEL</td>
<td><strong>Data storage CEL</strong></td>
</tr>
<tr>
<td></td>
<td>Properties for saving Chronological Event List entries (CEL) in the main memory and to the hard drive.</td>
</tr>
<tr>
<td></td>
<td>More in the online help</td>
</tr>
<tr>
<td></td>
<td>This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:</td>
</tr>
<tr>
<td></td>
<td>\textit{GRP CEL Mem}</td>
</tr>
<tr>
<td>Size of the ring buffer</td>
<td><strong>Size of the ringbuffer</strong></td>
</tr>
<tr>
<td></td>
<td>Only available if property CEL active is active. &lt;br&gt;Size of the CEL ring buffer. If the ring buffer overflows (cel.bin), the entries are transferred to the CEL archive (*.cel). &lt;br&gt;Minimum: 1</td>
</tr>
<tr>
<td>Maximum: 32767</td>
<td></td>
</tr>
<tr>
<td>Default: 100</td>
<td></td>
</tr>
</tbody>
</table>

**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 function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

`CELMemCount`
### Save CEL data

**Save CEL data**

*Only available if property CEL active is active.*

Ring buffer and historic data: **All CEL entries (*.cel) are saved.**

Only ring buffer: **Only a defined number of CEL entries (cel.bin) is saved.** The number is defined via property **Size of the ringbuffer.**

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.

Default: **Default**

The files (cel.bin and *.cel) are saved in directory `\project folder\computer name\project name`.

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*CelOnlyStack*

### Save ring buffer on change

**Save ringbuffer on change**

**Active:** Each change of the data of the Chronological Event List (CEL) triggers the saving of the data (cel.bin).

**Note:** The complete ring buffer is therefore saved each time there is a change to the data. This can especially for Flash Disks lead to substantial system load.

**Inactive:** 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.
**Default:** inactive

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

**SaveCelStack**
### Logging

**Logging**

General properties for the Chronological Event List (CEL).

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*GRP_CEL_Common*

### Alarm acknowledgement

**Alarm acknowledgement**

Only available if property **Alarm Message List active** is active.

**Active:** If an alarm is acknowledged, an entry is created in the Chronological Event List (CEL).

**Inactive:** Acknowledging an alarm does not trigger an entry in the CEL.

**Default:** inactive.

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*AlarmCELAttempts*

### Function Set SV

**Function Set SV**

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

**Active:** At successful writing of values to the hardware, a
A corresponding entry is entered in the CEL.

**Inactive:** The successful writing of values is not logged in the CEL.

**Default:** inactive

**Note:** This property only has an effect on Runtime if the writing of the set value is carried out using the Write set value function.

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*CEL Poke Ack*
### 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 changed recipe in the CEL.

- **Log recipes and values:** When writing a recipe, it is logged in the CEL with:
  - Name of the recipe
  - New and old values of the variables
  - Names of the variable

**Default:** no logging

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*RecipeWriteToCEL*

### 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.
Topics

CEL.

- **Log recipes and values:** The following is logged in the CEL when the recipe is changed:
  - Name of the recipe
  - New and old values of the variables
  - Names of the variable

**Default:** no logging

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

**RecipeChangeToCEL**

<table>
<thead>
<tr>
<th>Alarm groups</th>
<th>Alarm/event groups</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add</td>
<td>Adds the character string entered in the input field as new alarm/event group. 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>

<table>
<thead>
<tr>
<th>Alarm classes</th>
<th>Alarm/event classes</th>
</tr>
</thead>
<tbody>
<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.
<table>
<thead>
<tr>
<th>Buttons</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right-hand list</td>
<td>Opens the dialog for exporting XML files which were created in the Editor via command Exported selected XML.</td>
</tr>
<tr>
<td>Export</td>
<td>Opens the dialog for importing XML files which were created in the Editor via command Exported selected XML. Import is carried out in folder %ProgramData%\Copa-Data\zenon700\Templates\PharmaWizard.</td>
</tr>
<tr>
<td>Import</td>
<td>Deletes XML files which were created in the Editor via command Exported selected XML.</td>
</tr>
<tr>
<td>Delete</td>
<td></td>
</tr>
<tr>
<td>Left-hand list</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 153).</td>
</tr>
<tr>
<td>Add</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 <strong>Exported selected XML</strong>.</td>
</tr>
<tr>
<td>Import</td>
<td>Opens the dialog for importing XML files which were created in the Editor via command <strong>Exported selected XML</strong>.</td>
</tr>
<tr>
<td>Delete</td>
<td>Deletes XML files which were created in the Editor via command <strong>Exported selected XML</strong>.</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.</td>
</tr>
<tr>
<td></td>
<td>Saving to the current project or to another project is carried out on tab <strong>Finish</strong> (on page 153).</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><strong>Project description</strong></td>
<td>Information about the project as defined on tab Settings (on page 116). Display only, cannot be changed.</td>
</tr>
<tr>
<td><strong>Author</strong></td>
<td>Name of the engineer.</td>
</tr>
<tr>
<td><strong>Manager</strong></td>
<td>Name of the manager.</td>
</tr>
<tr>
<td><strong>Company</strong></td>
<td>Company.</td>
</tr>
<tr>
<td><strong>Comment</strong></td>
<td>Comments to the project.</td>
</tr>
<tr>
<td><strong>Save configuration settings</strong></td>
<td>Options for saving changes done by the wizard.</td>
</tr>
<tr>
<td><strong>Message field</strong></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.</td>
</tr>
<tr>
<td></td>
<td><strong>Attention</strong>: The created configuration files can only be read, created and edited with the wizard.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Name of the configuration file.</td>
</tr>
</tbody>
</table>

### 3.5 Project

Wizards for:

- Project creation (on page 169)
- the compare of project backups (on page 156)
- the creation of a project documentation (on page 193)
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 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

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. A click on button . . . Opens the file browser to select 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. A click on button . . . Opens the file browser to select 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><strong>List field</strong></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><strong>Navigation</strong></td>
<td>Elements for the navigation in the list.</td>
</tr>
<tr>
<td></td>
<td><strong>Changed elements</strong> <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></td>
<td><strong>Deleted elements</strong> <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></td>
<td><strong>New elements</strong> <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></td>
<td><strong>Show only differences</strong> <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></td>
<td><strong>Compare</strong></td>
</tr>
<tr>
<td></td>
<td>Compares the project backups in accordance with the selection and displays them in the list field.</td>
</tr>
<tr>
<td></td>
<td><strong>vertical double arrow buttons</strong></td>
</tr>
<tr>
<td></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](Backup_Comparison_Wizard.png)

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 `ALARMS` nothing was changed

**ONLY DIFFERENCES:**

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.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Settings</strong></td>
<td>Settings for type of documentation.</td>
</tr>
<tr>
<td><strong>Create XML</strong></td>
<td>Active: An XML file is created.</td>
</tr>
<tr>
<td><strong>Create HTML</strong></td>
<td>Active: A HTML file is created.</td>
</tr>
<tr>
<td><strong>Save Path</strong></td>
<td>Path to the folder in which the file is saved. Display only. Selection is carried out via button Compare.</td>
</tr>
</tbody>
</table>
| **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="yes" ?>
<Project Name="sepp" BackupONE="2011-10-31_08-47-48 sepp.zip" BackupTWO="2011-10-10_08-07-46 sepp.zip">
  <Name>Screen 30</Name>
  <Element />
  <Name>Screen 04</Name>
  <Element />
  <Name>Screen 18</Name>
  <Element />
  <Name>Screen 01</Name>
  <Element />
  <Name>Screen 39</Name>
  <Element />
  <Name>Screen 05</Name>
  <Element />
  <Name>Screen 32</Name>
  <Element />
  <Name>Screen 09</Name>
  <Element />
  <Name>Screen 11</Name>
  <Element />
  <Name>Screen 33</Name>
  <Element />
  <Name>Screen 14</Name>
  <Element />
  <Name>Screen 29</Name>
  <Element />
  <Name>Screen 10</Name>
  <Element />
  <Name>Screen 06</Name>
  <Element />
  <Name>Screen 35</Name>
  <Element />
  <Name>Screen 12</Name>
  <Element />
  <Name>Screen 16</Name>
  <Element />
  <Name>Screen 31</Name>
  <Element />
  <Name>Screen 17</Name>
  <Element />
  <Name>Screen 27</Name>
  <Element />
  <Name>Screen 34</Name>
  <Element />
  <Name>Screen 15</Name>
  <Element />
</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.

**Information**

*If the wizard is selected manually via the Wizard selection dialog, then the following must be the case:*

- An empty project must be created
- The project must be active

**Start 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

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

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:

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><strong>Versioning</strong></td>
<td></td>
</tr>
<tr>
<td>Versioning active</td>
<td></td>
</tr>
<tr>
<td>Active:</td>
<td>Project versioning is used. Every project backup is saved with an own version number.</td>
</tr>
<tr>
<td>Inactive:</td>
<td>no versioning of the project backup.</td>
</tr>
<tr>
<td>Default:</td>
<td>inactive</td>
</tr>
<tr>
<td>More in the online help.</td>
<td></td>
</tr>
<tr>
<td>This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:</td>
<td>VersionActive</td>
</tr>
<tr>
<td>XML export active</td>
<td></td>
</tr>
<tr>
<td>Active:</td>
<td>At each project backup an zip file (version.zip) is inserted. It includes 24 XML files with the backups of the individual modules.</td>
</tr>
<tr>
<td>Note:</td>
<td>For multi-user projects only for local backups.</td>
</tr>
<tr>
<td>Default:</td>
<td>inactive</td>
</tr>
<tr>
<td>More in the online help.</td>
<td></td>
</tr>
</tbody>
</table>
This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

BackupWithXML
<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 to the project are also logged.</td>
</tr>
<tr>
<td></td>
<td><strong>Inactive:</strong> Changes to the project are not logged.</td>
</tr>
<tr>
<td></td>
<td><strong>(Default) Inactive:</strong></td>
</tr>
<tr>
<td></td>
<td>More in the online help</td>
</tr>
<tr>
<td></td>
<td>This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:</td>
</tr>
<tr>
<td></td>
<td><em>ChangeLogAktiv</em></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 History of changes active is active.</strong></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.</td>
</tr>
<tr>
<td></td>
<td>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>More in the online help</td>
</tr>
</tbody>
</table>
This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

**ChangeLogState**

**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.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Driver list</strong></td>
<td>List of zenon drivers. Selection is done by clicking on the driver.</td>
</tr>
<tr>
<td><strong>Driver information</strong></td>
<td>Display of the information about the selected driver.</td>
</tr>
<tr>
<td><strong>Driver name</strong></td>
<td>Name of the driver how it should be displayed in the project. Free text input.</td>
</tr>
<tr>
<td></td>
<td><strong>Identification</strong></td>
</tr>
<tr>
<td></td>
<td>Unique 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. <strong>Attention:</strong> This property is not available for language switch.</td>
</tr>
<tr>
<td></td>
<td>More in the online help</td>
</tr>
<tr>
<td></td>
<td>This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:</td>
</tr>
<tr>
<td></td>
<td><strong>Name</strong></td>
</tr>
<tr>
<td><strong>Add</strong></td>
<td>Adds the selected driver to the list of driver to be created.</td>
</tr>
<tr>
<td><strong>Remove</strong></td>
<td>Removes the selected driver from the list drivers to be created.</td>
</tr>
<tr>
<td><strong>List of drivers to be created</strong></td>
<td>List of drivers to be created with name, description and file name.</td>
</tr>
<tr>
<td><strong>Create screen with driver statistic variables</strong></td>
<td><strong>Active:</strong> For each driver a screen with driver variables is created.</td>
</tr>
<tr>
<td><strong>Cursor keys</strong></td>
<td>Move one tab forward or back.</td>
</tr>
<tr>
<td><strong>Overwrite</strong></td>
<td>Creates project and overwrites possibly existing object. Only active if tab <strong>Finish</strong> is opened.</td>
</tr>
</tbody>
</table>
Close

Closes the wizard.
The made changes can be saved for the current user.

Graphic settings

On this tab you configure the resolution and the settings for the Runtime and touch screens.
### Parameters

<table>
<thead>
<tr>
<th>General project settings</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>General project settings</td>
<td>General graphical settings for the project.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current primary monitor size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display of the current screen resolution. For multi-monitor systems the resolution of the main screen is displayed.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Screen resolution</th>
<th>Selection of desired screen resolution from drop-down list.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Runtime title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver invisible</td>
<td>Active: Started drivers are not displayed in the Windows task bar in the Runtime.</td>
</tr>
<tr>
<td></td>
<td>Inactive: Started drivers are displayed in the Windows task bar in the Runtime.</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 function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:</td>
</tr>
<tr>
<td></td>
<td>DriverInvisible</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Graphics quality</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphics quality</td>
<td>Setting for the quality of the graphics display.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Possible selection:</td>
</tr>
<tr>
<td></td>
<td>Windows Basic: Basic graphics settings. Recommended for resource-weak hardware.</td>
</tr>
<tr>
<td></td>
<td>Windows Enhanced: Provides enhanced functions for the</td>
</tr>
</tbody>
</table>
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. **DirectX** cannot be used for OCX.

**Note:**
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 function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*UseGDIplus*
<table>
<thead>
<tr>
<th><strong>Menu position</strong></th>
<th>Selection of the menu location from drop-down list.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Runtime settings</strong></td>
<td>Settings for the Runtime.</td>
</tr>
<tr>
<td><strong>Alarm status active</strong></td>
<td>Status line active</td>
</tr>
<tr>
<td></td>
<td>Only available if property <strong>Alarm Message List active</strong> is active.</td>
</tr>
<tr>
<td></td>
<td><strong>Active:</strong> 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.</td>
</tr>
<tr>
<td></td>
<td><strong>Inactive:</strong> No status line is displayed.</td>
</tr>
<tr>
<td></td>
<td><strong>Default:</strong> active</td>
</tr>
<tr>
<td></td>
<td><strong>Attention multi-project administration:</strong> 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.</td>
</tr>
<tr>
<td></td>
<td>More in the online help</td>
</tr>
<tr>
<td><strong>Driver invisible</strong></td>
<td>Driver invisible</td>
</tr>
<tr>
<td></td>
<td><strong>Active:</strong> Started drivers are not displayed in the Windows task bar in the Runtime.</td>
</tr>
<tr>
<td></td>
<td><strong>Inactive:</strong> Started drivers are displayed in the Windows task bar in the Runtime.</td>
</tr>
</tbody>
</table>
**Default:** inactive.

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*DriverInvisible*
<table>
<thead>
<tr>
<th><strong>Touch operation</strong></th>
<th><strong>Settings for the touch operation</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Touch</td>
<td><strong>Multi-Touch active</strong></td>
</tr>
</tbody>
</table>

**Active:** 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.

More in the online help.

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*MultiTouch*

<table>
<thead>
<tr>
<th><strong>Mouse pointer visible</strong></th>
<th><strong>Cursor visible</strong></th>
</tr>
</thead>
</table>

**Active:** The cursor is visible in Runtime.
**Inactive:** The cursor is not visible in Runtime. For projects with a touchscreen, the display of the cursor can be considered to be distracting and can be switched off with this property.
Default: active

**ATTENTION:** This functionality only works for elements of the control system (screens, elements ..) but not for Windows standard elements (title bars, menus, scroll bars ..). To do this, the cursor must be deactivated directly in the operating system.

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

*CursorVisible*

<table>
<thead>
<tr>
<th><strong>Automatic keyboard</strong></th>
<th>****</th>
</tr>
</thead>
</table>
Automatic keyboard

For projects with a touch screen.
Active: A keyboard screen is automatically called if input is necessary (for example to write a setpoint value or to log in).
Inactive: No keyboard screen is opened.
(Default) Inactive:

More in the online help

This function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

**Touchscreen**
Create keyboard screen

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.

<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 function is to be addressed for the zenon API (with class name) and in XML export (without class name) as follows:

`KeyboardSize`

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.

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><strong>Screen types</strong></td>
<td>Configuration of the screen.</td>
</tr>
<tr>
<td><strong>Selection field</strong></td>
<td>Selection of the screen type from drop-down list.</td>
</tr>
<tr>
<td><strong>Frames list</strong></td>
<td>Selection of the frame for the screen. Size and preview are displayed.</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>Width of the screen. Display only,</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>Height of the screen. Display only,</td>
</tr>
<tr>
<td><strong>Preview</strong></td>
<td>Preview of the selected screen type with the selected frame. <em>Standard</em> is displayed as empty.</td>
</tr>
<tr>
<td><strong>Input field name</strong></td>
<td>Free label of the screen name.</td>
</tr>
<tr>
<td><strong>Add</strong></td>
<td>Adds screen with selected name to list of screens.</td>
</tr>
<tr>
<td><strong>Remove</strong></td>
<td>Removes selected screen from list of screens.</td>
</tr>
<tr>
<td><strong>Screens list</strong></td>
<td>Lists all configured screens with names, screen types and size. A maximum of 14 screens can be created.</td>
</tr>
<tr>
<td><strong>Demo project</strong></td>
<td>Settings for a example project.</td>
</tr>
<tr>
<td><strong>Create demo screens</strong></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><strong>Cursor keys</strong></td>
<td>Move one tab forward or back.</td>
</tr>
<tr>
<td><strong>Overwrite</strong></td>
<td>Creates project and overwrites possibly existing object. Only active if tab Finish is opened.</td>
</tr>
<tr>
<td><strong>Close</strong></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 190) With the create demo screens (on page 185) option active.
- Example 2 (on page 192): 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 Variables

Wizards for variables.

3.6.1 Variable creation wizard

This wizard serves to create many variables quickly.

⚠️ Attention

This wizard does not support distributed engineering and is not available in multiuser projects.
3.6.2  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 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 Variables folder
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><strong>Active:</strong> As soon as action <em>Create Runtime files</em> is executed in zenon, the wizard is also executed.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> The logic for creating the straton project is running in the background. The user interface of the wizard is not displayed.</td>
</tr>
</tbody>
</table>
### Topics

**Drivers with simulation project**
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 *Replacement pattern*.

<table>
<thead>
<tr>
<th><strong>Replacement pattern</strong></th>
<th>Substitution rules.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMMAND variable</strong></td>
<td>Command variable.</td>
</tr>
<tr>
<td></td>
<td>Only one wildcard (*) is allowed.</td>
</tr>
<tr>
<td><strong>RESPONSE variable</strong></td>
<td>Response variable.</td>
</tr>
<tr>
<td></td>
<td>Only one wildcard (*) is allowed.</td>
</tr>
<tr>
<td><strong>Add</strong></td>
<td>Adds rules to List of rules.</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 List of rules.</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](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.

3.6.3 IEC850 Driver Configuration

The add-on IEC850 driver configuration allows you to read IEDs that are already present in SCL files and to create connections in the IEC850 driver with this.

License information

zenon Energy Edition must be licensed in order to use the add-on.
Starting the add-on

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 Variables folder
4. Select IEC850 Driver Configuration there
5. Click on OK
6. The wizard starts with the page Configuration

Configuration

The IEC850 driver is configured in this tab. Requirements:

- An SCL file (*.scl, *.icd, *.cid, *.scd, *.ssd) must be present
- IEC850 drivers must be present in zenon or created in the add-on
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>File selection</td>
<td>Selection of the SCL file. Click on the ... button to open the file selection dialog.</td>
</tr>
<tr>
<td>Treeview</td>
<td>Tree view for connections and drivers available.</td>
</tr>
<tr>
<td>File name</td>
<td>Display of the selected SCL file.</td>
</tr>
<tr>
<td>Project name</td>
<td>Display of the zenon project for which the driver has been configured.</td>
</tr>
<tr>
<td>List of connections</td>
<td>Lists all connections contained in the SCL file.</td>
</tr>
<tr>
<td>List of drivers</td>
<td>Lists all drivers IEC850 drivers created in the project and in the add-on with their connections. Drivers can be added or deleted using the context menu. Connections are allocated by dragging &amp; dropping and can be deleted via the context menu. <strong>Note:</strong> Further connections can be added to drivers that have already been created in zenon. Connections or drivers that already exist in zenon cannot be deleted.</td>
</tr>
<tr>
<td>OK</td>
<td>Applies settings and closes the dialog.</td>
</tr>
<tr>
<td>Cancel</td>
<td>Discards all changes and closes the dialog.</td>
</tr>
</tbody>
</table>

**CONFIGURING THE DRIVER**

To configure drivers:

1. Select the desired SCL file.
2. Create new drivers as required.
3. Select the desired connection.
4. Drag & drop the connection to the desired driver.

5. Edit the Net address of the connection if necessary.

6. Configure all required drivers and connections.

7. Close the add-on by clicking on the OK button.

**ADDING A DRIVER**

To add a driver:

1. Select the New Driver command in the context menu of the driver list.
2. The dialog to create a driver is opened.

![Add driver dialog](image)

3. Give it a unique name.

4. Confirm the dialog by clicking OK.

5. The driver is displayed in the list.

6. The driver is created in zenon by clicking on OK when the add-on is closed.

DELETE DRIVER

To delete a driver:

1. Highlight the desired driver.

2. Select **Delete driver** in the context menu.

3. The driver is deleted without requesting confirmation.

**Note:** Only drivers that have not yet been created in zenon can be deleted.

EDITING THE NETWORK ADDRESS:

To amend a Net address:

1. Highlight the desired Net address for the driver in the driver list.

2. Select **Edit net address** in the context menu.
3. The dialog to issue a Net address is opened.

![Set net address](image)

4. Assign a value.

5. Confirm the dialog by clicking OK.

6. When closing the add-on by clicking on OK, the new Net address of the connection is assigned in zenon.

**Note:** Only network addresses that have not yet been created in zenon can be edited.

**DELETE CONNECTION**

To delete a connection:

1. Highlight the desired connection for the driver in the driver list.

2. Select **Delete connection** in the context menu.

3. The connection is deleted

**Note:** Only connections that have not yet been deleted in zenon can be deleted.

**ACCEPT DRIVER CONFIGURATION IN THE PROJECT**

To accept the new configuration, click on the OK button.

- The configuration is checked.

If there are drivers without connections, then there is a notice.

![Attention](image)
1. New drivers are created in zenon.
2. New connections are created in zenon.
3. The result is displayed in an output window.

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 216). This can be included when the wizard is updated (on page 212).

### VBA AND VSTA WIZARDS

To create wizards the following information is necessary for VBA and VSTA (on page 209):

- 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.

The demo wizard offers an empty template that can be individually adapted. For details on creating VSTA wizards see chapter Details VSTA wizards (on page 209).

### 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 209)</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Public Function GetWizardName() As String GetWizardName = &quot;Project-Wizard&quot; End Function</code></td>
<td>GetWizardName (Type string)</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 209)</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Public Function GetWizardInfo() As String GetWizardInfo = &quot;Wizard for creation of a</code></td>
<td>GetWizardInfo (Type string)</td>
</tr>
</tbody>
</table>
**CATEGORY**

States the category in which the wizard is sorted.

For example: Project

**Note:** You can use existing categories. VBA and VSTA wizards can be sorted in the same category.

<table>
<thead>
<tr>
<th>VBA</th>
<th>VSTA (on page 209)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function GetWizardCategory() As String</td>
<td>GetWizardCategory (Type string)</td>
</tr>
<tr>
<td></td>
<td>GetWizardCategory = &quot;Project&quot;</td>
</tr>
<tr>
<td></td>
<td>End Function</td>
</tr>
</tbody>
</table>

**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 209)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function IsZenOnWizard() As Boolean</td>
<td>IsZenOnWizard (Type bool)</td>
</tr>
<tr>
<td></td>
<td>IsZenOnWizard = True</td>
</tr>
<tr>
<td></td>
<td>End Function</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 209)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function GetWizardVersion() As Integer</td>
<td>GetWizardVersion (Type int)</td>
</tr>
<tr>
<td></td>
<td>GetWizardVersion = 6</td>
</tr>
<tr>
<td></td>
<td>End Function</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>
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
static public bool IsZenOnWizard()
{
    bool bValue = true;
    return bValue;
}

static public int GetWizardVersion()
{
    int nValue = 1;
    return nValue;
}

public void StartWizard()
{
    this.Show();
}

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
Create and adapt wizards

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

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

Public Shared Function GetWizardVersion() As Integer
    GetWizardVersion = 1
End Function

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!
        }
    }
#endregion
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  
obClassType = Type.GetType(strClassname)  
If (Not obClassType Is Nothing) Then  
obParams(0) = Me.ZenWorkspace  
obWizard = Activator.CreateInstance(obClassType, obParams)  
If (Not obWizard Is Nothing) Then  
obClassType.InvokeMember("StartWizard",  
End If
End If
End Sub

5. 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>
</tbody>
</table>
No longer supported: The existing wizard is obsolete and will be deleted.

**Type**
- VBA or VSTA

**User-specific**
- wizard was created or changed by the user

**Data sources**
- Possibility of defining your own folder for your own wizards. The save location of the individual `wizards.ini` (on page 216) is entered.
- The entries for this are saved in `zenon.ini` in the `[VSTA]` section or `[VBA] as WIZARDPATH=`.

**Additional folder for VSTA wizards**
- Individual save location for your own VSTA wizards.

**Additional folder for VBA wizards**
- Individual save location for your own VBA wizards.

**Remember me again**
- The dialog will open again when the Editor is next started.

**Start update**
- The wizards selected in the wizard list are updated.

**Cancel**
- The dialog is ended without updating and is only offered again after the next installation of a service pack.

**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 218) and for VSTA (on page 216).

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>Errors</th>
<th>Possible causes</th>
</tr>
</thead>
</table>
| No VSTA wizards are displayed in the update dialog | ▶  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.  
▶  If the workspace cannot be compiled due to errors in the code, no wizards are listed. You can read how the original wizards are recovered in the Recover original wizards section. |
| A particular wizard is not displayed.       | ▶  The wizard does not support the required methods.  
▶  The workspace was not yet compiled after the wizard was implemented; the add-in that is running does not contain the wizard. |
| Self-created wizards are not displayed.    | ▶  The configured path is incorrect.  
▶  The wizards.ini in the path configured is obsolete or defective. |

**RECOVERING ORIGINAL WIZARDS**

If wizards are not displayed in the list of the wizards, you can recover the original wizards. To do this:

1. End the zenon Editor
2. Navigate to the folder: `%ProgramData%\COPA-DATA\zenonxxx\VSTAWorkspace` (xxx stands for the zenon version)
3. Rename the complete folder
4. Restart the Editor
5. The folder and the wizards are recreated
5.1 Structure of the wizards.ini

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

Information

This documentation is only available in English.

5.1.1 VSTA 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
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
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
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).
static public bool IsZenOnWizard()
{
    bool bValue = false;
    return bValue;
}

static public int GetWizardVersion()
{
    int nValue = 1;
    return nValue;
}

public void StartWizard()
{
    this.Show();
}

#region