



CODESYS Visualization: using visualization styles to create smart interfaces

CODESYS Users' Conference 2014, Patrick Rohloff

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Scenario

2

Options in CODESYS

3

Demo

- You are a service provider or a supplier for a certain industry.



Goal

- You want to offer your customers solutions which can be seamlessly integrated into already existing units.
- As a system supplier or Store provider you offer tool kits for CODESYS end users which can easily be adapted to suite the most different needs.





Goal

- Despite the very different individual requirements, the support and maintenance of the software is to generate only very little additional effort.
- The user wants to use existing visualizations.
- Through configuration and using visualization styles we can give every visualization its own special look and feel.
- In order to use visualization styles to adopt a certain corporate design you do not need any programming knowledge.

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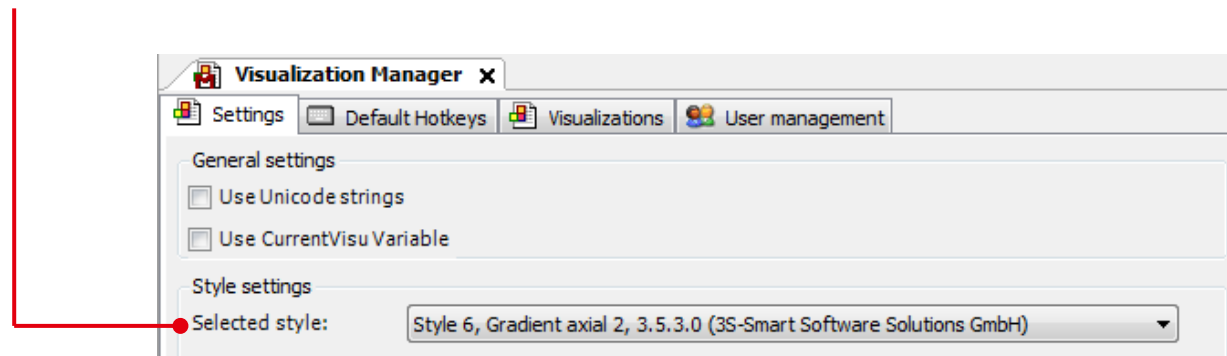
Demo

- Visualizations are usually supplied in form of



libraries.

- In visualizations the element properties usually refer to the settings of a visualization style.



- You provide the users with a detailed description on the settings of the visualization style.
- The visualization style is adapted with the



Visualization Styles Editor.

Visualization style

- An example can be found under

[C:\Program Files \(x86\)\3S
CODESYS\CODESYS\Projects\VisuStyleExample](C:\Program Files (x86)\3S CODESYS\CODESYS\Projects\VisuStyleExample)



Images



Example.visustyle.xml

- It is recommendable to copy this directory.

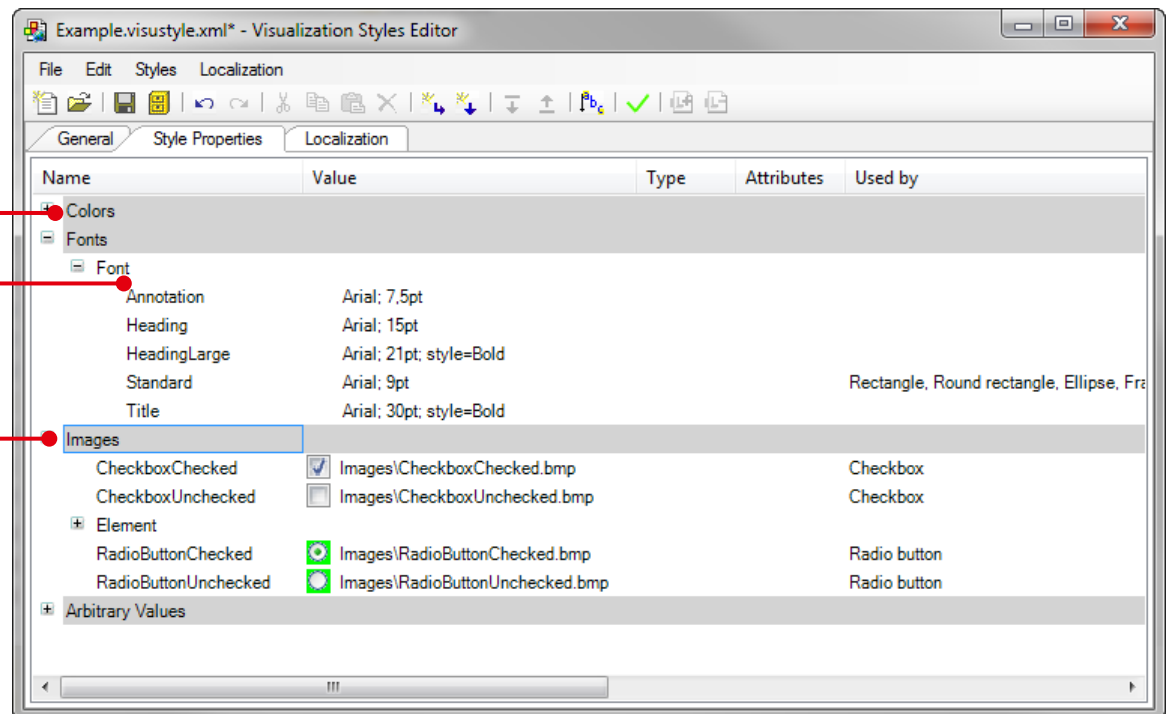
Visualization style

- Open the example with the Visualization Styles Editor.
- Now you can edit already existing settings and add new key words.
- Change the

Colors

Fonts

Images



Designing the visualization

Basic colors and fonts

Corporate logo

Operating concept

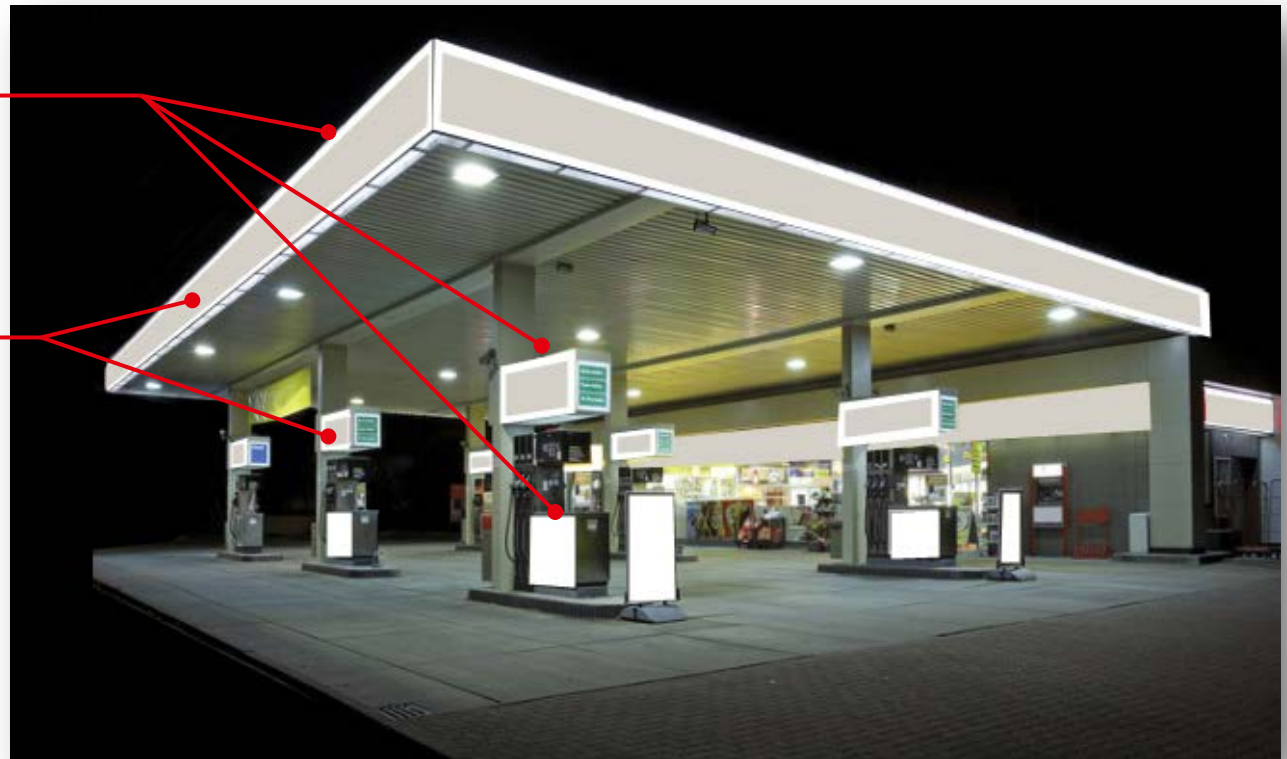


Designing the visualization

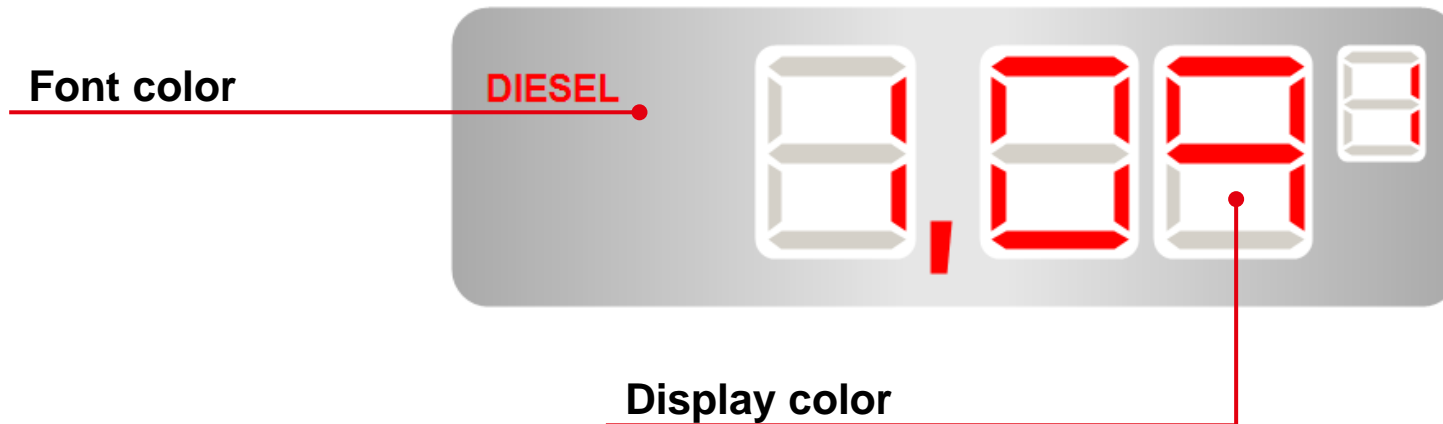
- Assign key words for a specific coloring.
- You can differentiate between normal color state and alarm color state.

CoverBackground

CoverFront



Designing the visualization

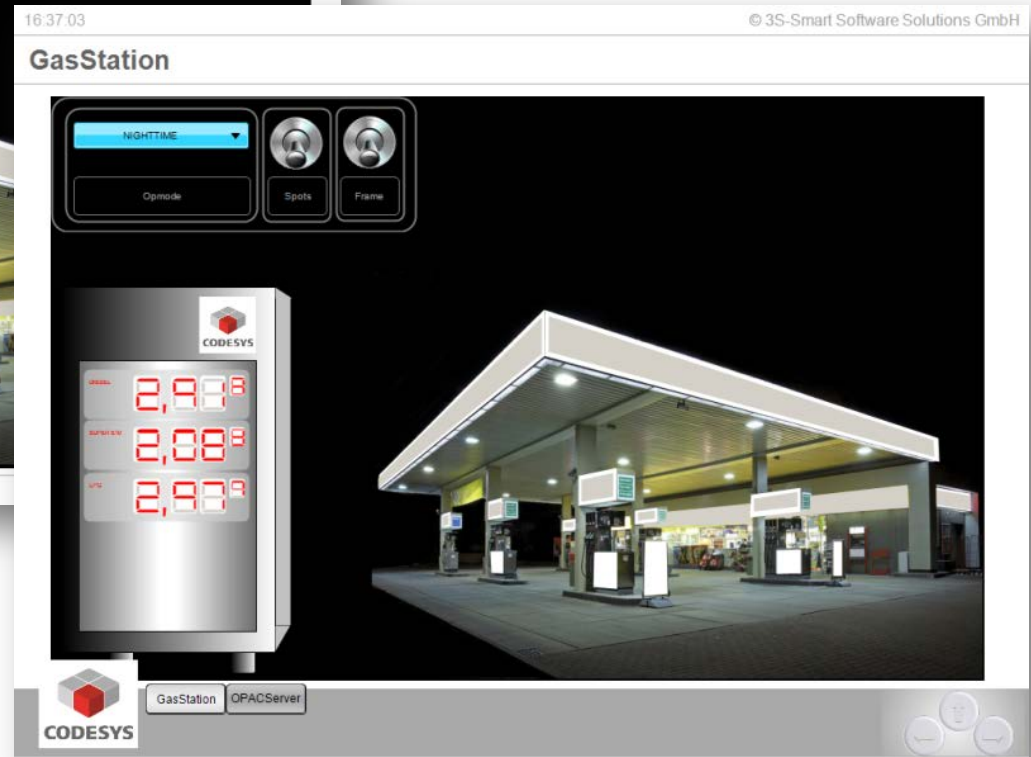
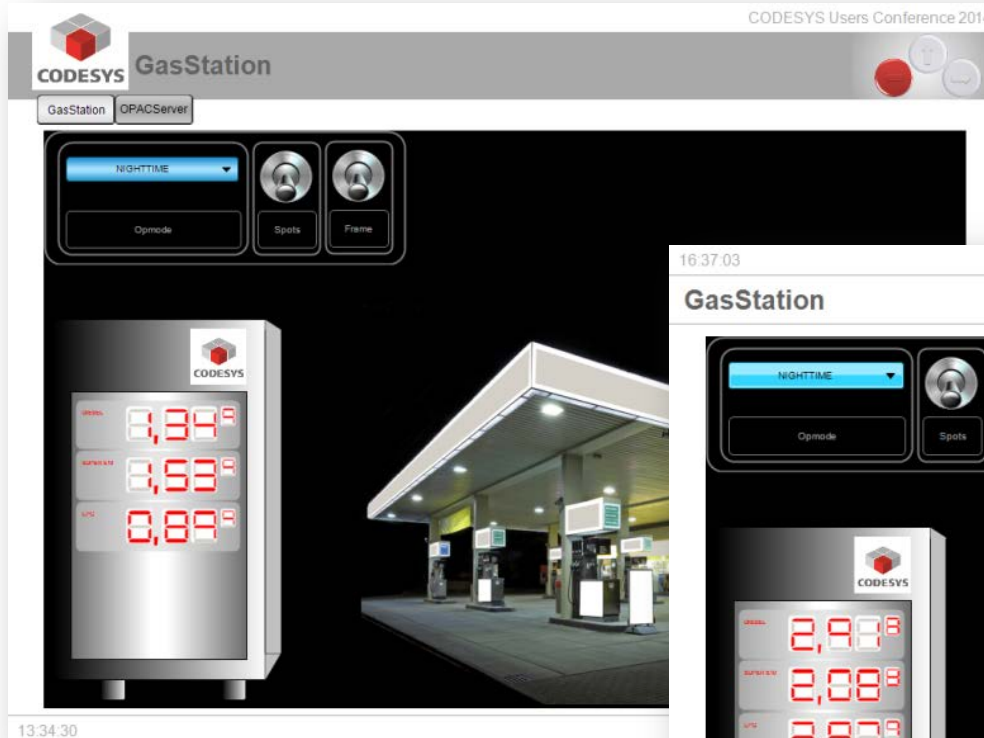




Designing the visualization

- Through slight changes in the configuration and the selection of a new visualization main page you can give your application a completely different look.
 - Navigation buttons and status information bars can be individually arranged.
 - Core elements are displayed using frames.
 - FB instances are displayed through different visualizations with interfaces.

Designing the visualization





Designing the visualization

- When working with the CODESYS Application Composer you can determine the cooperation of different visualization types and the template of the visualization main page through configuration.
- In addition, it is always possible to manipulate visualizations in combination with a visualization style.

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Demo



Inspiring Automation Solutions

Thank you for your attention.