

CODESYS VISUALIZATION

CODESYS Feature Briefing, March 2024 Stefan Ambros, Product Owner Visualization



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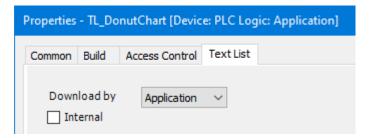
CODESYS Recipe Scripting

- All parts from the Recipe Manager and from a Recipe Definition can be created with scripting.
- The interface can be found in the Online Help.
- https://content.helpme-codesys.com/en/ScriptingEngine/idx-codesys_recipes.html
- Example code:

```
proj = projects.primary
app = findApplication(proj)
recipeMan = app.get_recipemanager()
recipeDef =
recipeMan.create_recipedefinition("RecipeDef1")
varList = recipeDef.variables;
recipeVar = varList.add("PLC_PRG.iVar");
```

Text lists only for the application

New option in the text list object properties



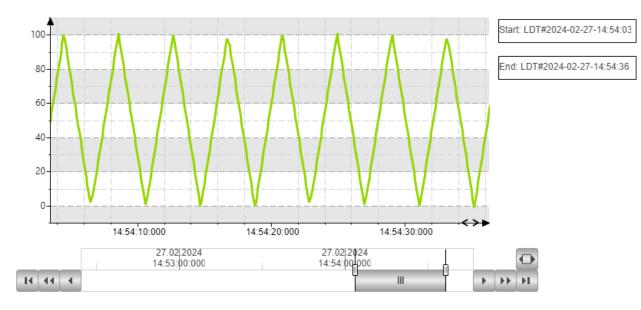
- New default: downloaded by application
- Use cases:
 - Language-specific alarm message texts in a runtime without visualization
 - Language-specific texts used only in the application

Possibility in Trend to set the timestamps for the range to display

Configurable LDATE_AND_TIME variables for the date range



Date range picker and date range variables can be operated in parallel



Visualization Tags View

- Detailed overview of counted tags
- Lists variables/tags used in specific visualization
- Shows the visualization call tree

Sisualization Tags View		- 0	>
🗘 Refresh 🛛 📈 Collapse All 🕅 🚩 Expand All	Total tags: 1288 Filtering by full or partial name		
Visualizationpath	Element Id Variable Name	Tag	gs ′
		Σ	639
_02_Alams		Σ	48
• _03_Trend		Σ	400
i≒04_Cockpit		Σ	5
i GenElemInst_33	33 🕂 Infeed	Σ	1
GenElemInst_35	35 Ø GradingSensors		0
GenElemInst_37	37 🕂 Packing	Σ	1
GenElemInst_7	6 Ø Cockpit.iPacking		1
🖻 🦳 GenElemInst_39	39 🕂 Warning	Σ	- 1
🗎 Hotkey	🕘 AlamInfo	Σ	1
⊞ Hotkey	🕘 AlamInfo	Σ	1
□ _05_Maintenance		Σ	137
□ _06_Settings		Σ	17
🗉07_Manual		Σ	1
🖹 🛛 AlamInfo		Σ	1,

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Visualization Tags View – Filter Option

Where does a visualization object (template) occur?

🕮 Visualization Variable List		—		×
🗘 Refresh 🏹 Collapse All 🚩 Expand All	Total tags: 1288 SE_Infeed			
Visualizationpath	Element Id Variable Name		Tags	
GenElemInst_43 (_06_Settings)	44 🕮 SE_Infeed		Σ	3
GenElemInst_43 (Visualization, _06_Settings)	44 🕮 SE_Infeed		Σ	0

Where does a tag (variable) occur?

Usualization Variable List	_	o x
🗘 Refresh 🏹 Collapse All 🚩 Expand All	Total tags: 1288 Settings.iDir	
Visualizationpath	Element Id Variable Name	Tags
GenElemInst_9 (_06_Settings, SE_Infeed)	8 Ø Settings.iDirection	1

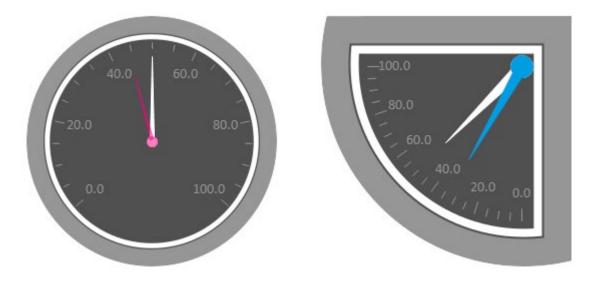
New alarm features

- Acknowledge comment as option for alarm table (OPC UA Compliant)
 - Comment is stored in alarm history
 - User ID responsible for acknowledge is also stored
- Re-alarm after specific time
 - ISA 18.2: alarm state changes from "Acknowledged" to "Active" if this has not become "Inactive" after a configurable time
- Off-delay
 - On-delay (min. pend. time) already exists
- Auto reset of digital alarms after acknowledgement
- Separation of alarm detection and alarm processing
 - The alarm detection is very fast and can be done at the end of an application task.



Second arrow option for meter element

- Optional second arrow if a value is configured
- Color of arrow can be semitransparent



 Second arrow 	
Value	PLC_PRG.rSecondArrow
Arrow type	Thin 3D arrow
Color	Element-Meter-SecondArrowColor
Transparency	255
Arrow length	From style

VIS 4.6.0.0



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