

GANZ EINFACH BROWSERN STATT PROGRAMMIEREN!

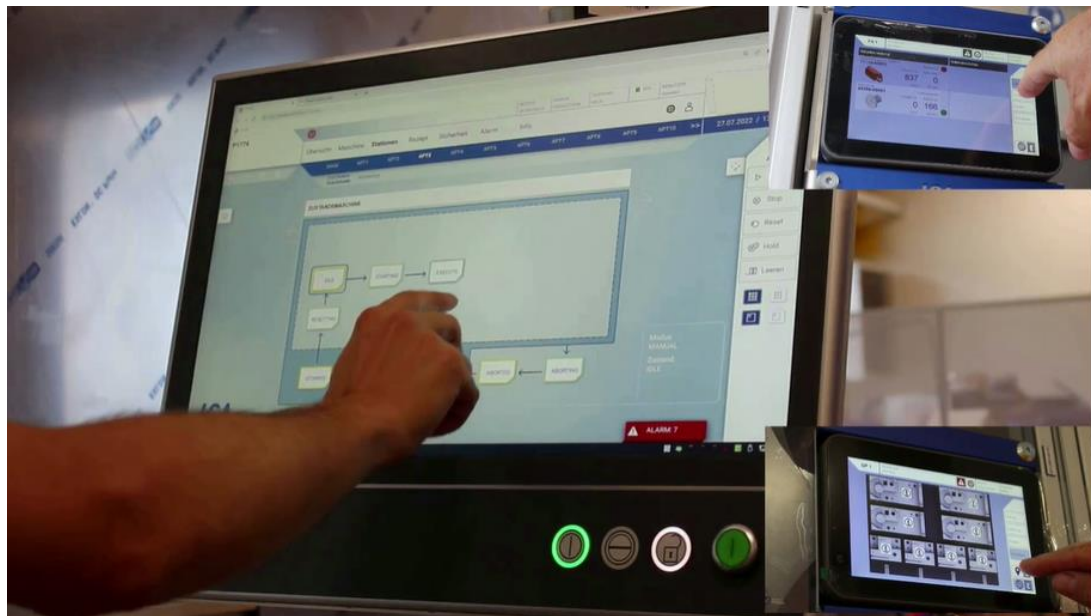
SpiderControl

Welcome to the presentation

SpiderControl PC HMI Editor Feature Overview

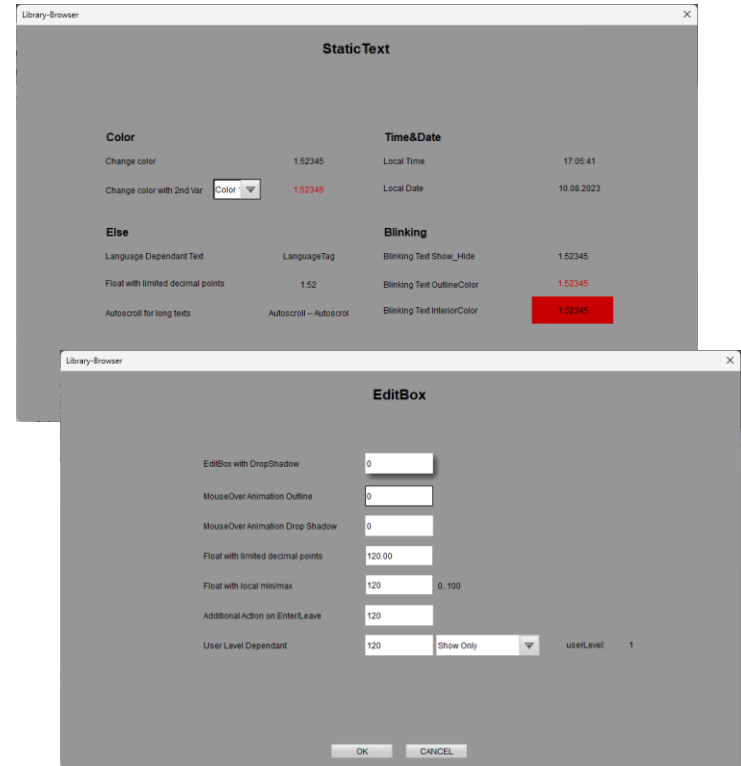
Single Page HTML5 Application with Fast Page Switch

- **Creates Pure HTML5 Single Page Applications ('SPA')**
- **Runs in Any HTML5 Compatible Browser: PC, Mobile, Web-Panel**
- **Always Compatible with MicroBrowser Clients**
- **ZIPed storage and Intelligent Caching in the Browser**
- **Fastest Possible Page Switch**
- **Multi Layer**
- **Vector Based**



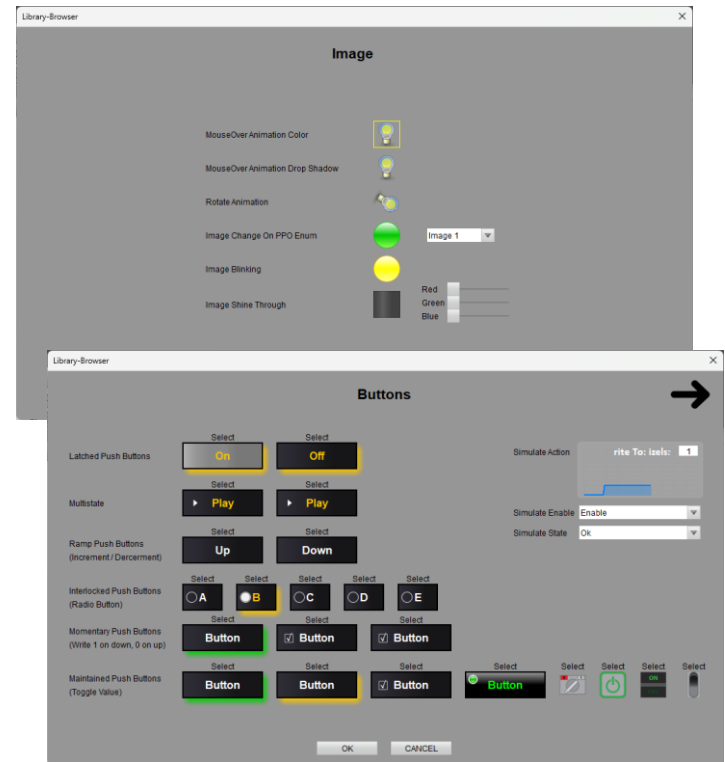
Text Object Features

- **Multi Language with UTF8 Support**
- **Font Styles can be linked to CSS File**
- **Fixed Decimal Point**
- **Blinking**
- **Change Color**
- **Multi Line**
- **Autoscroll**
- **Editable on Condition/User Level**
- **Min/Max Control**
- **Specific Actions on Enter/Leave**
- **Metric/Imperial Switch**



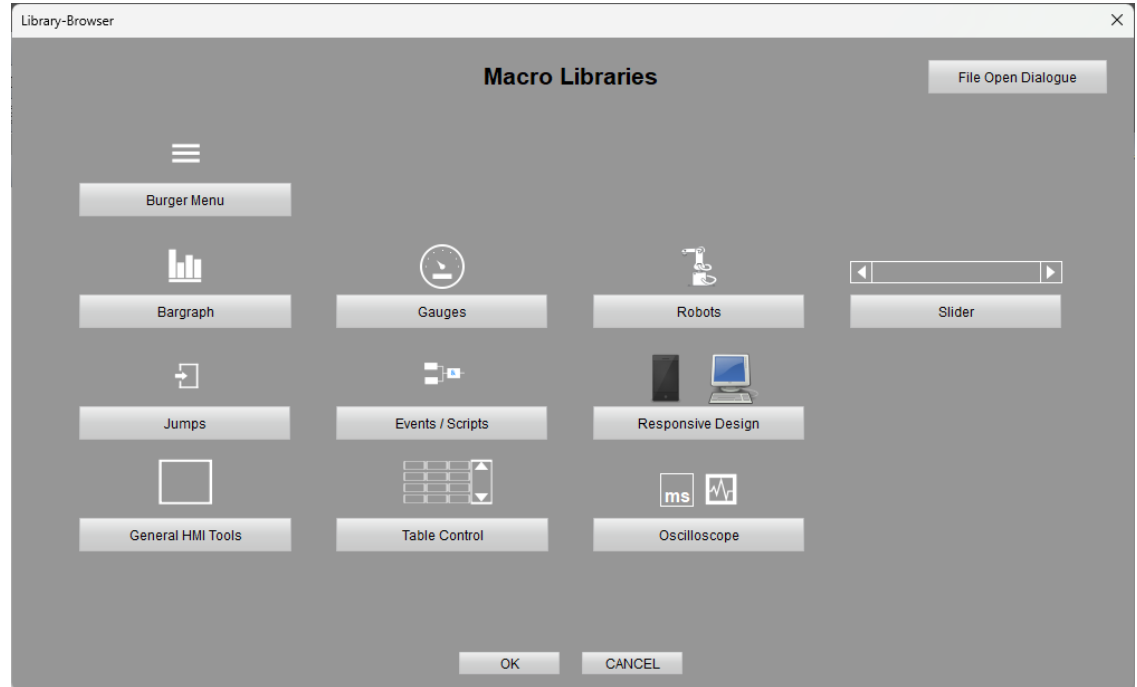
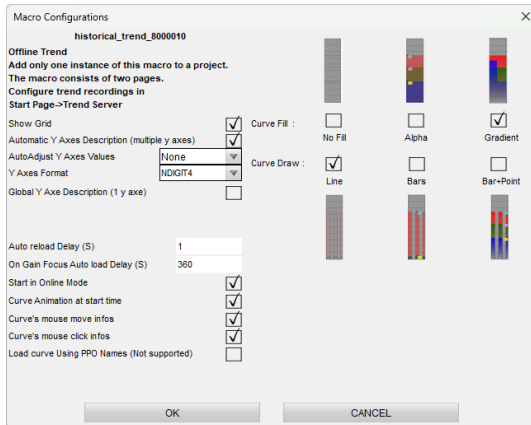
UI Effects

- **Vector Graphics (SVG) with extendable Libraries**
- **Drop Shadow Effect with CSS**
- **Definable Hover Effects**
- **Tool Tips**
- **Rotate Images**
- **Change Colors on Condition**
- **Change Images on Condition**
- **Enable/Disable States**
- **Draggable Objects**
- **Swipe Gestures**



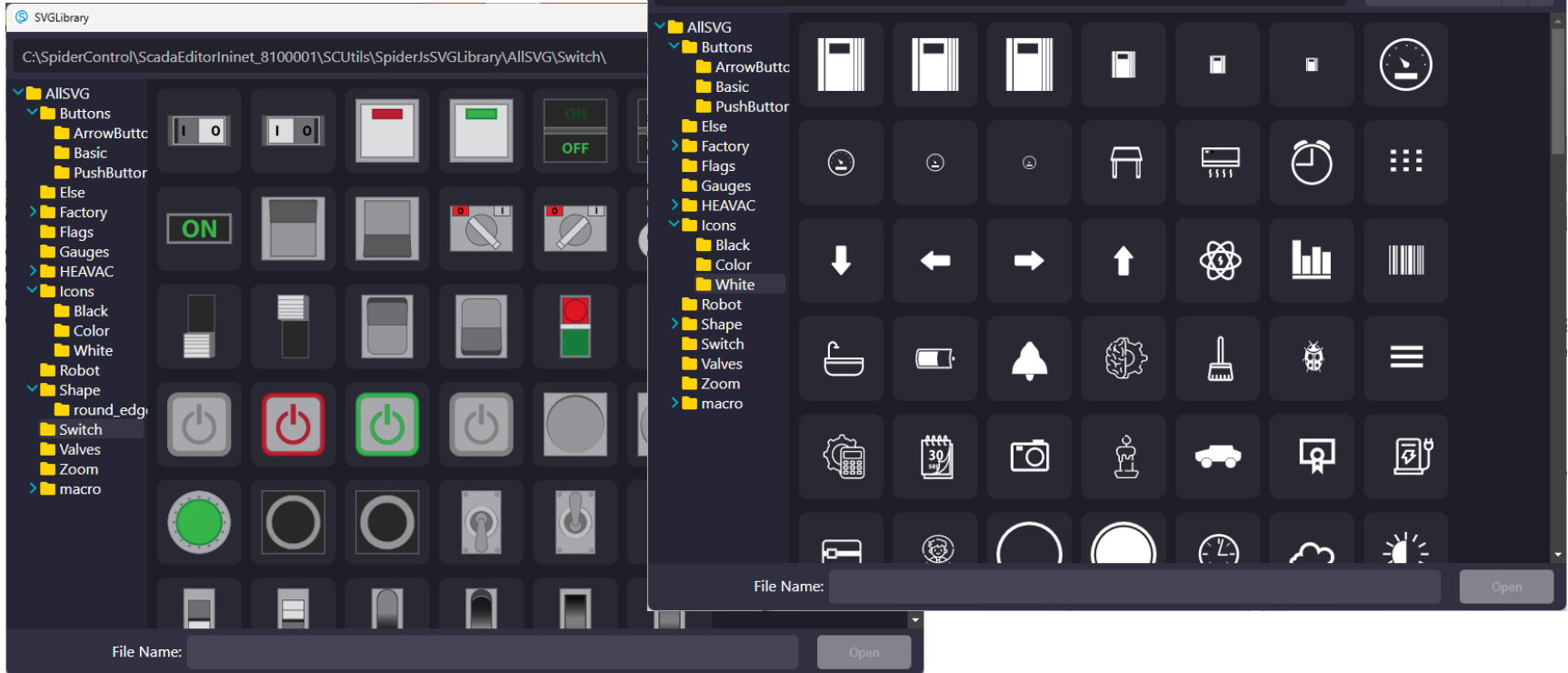
Macro Libraries

- Existing Macro Libraries
- User can add own macros,
- Design own dialogues
- Interactive selector

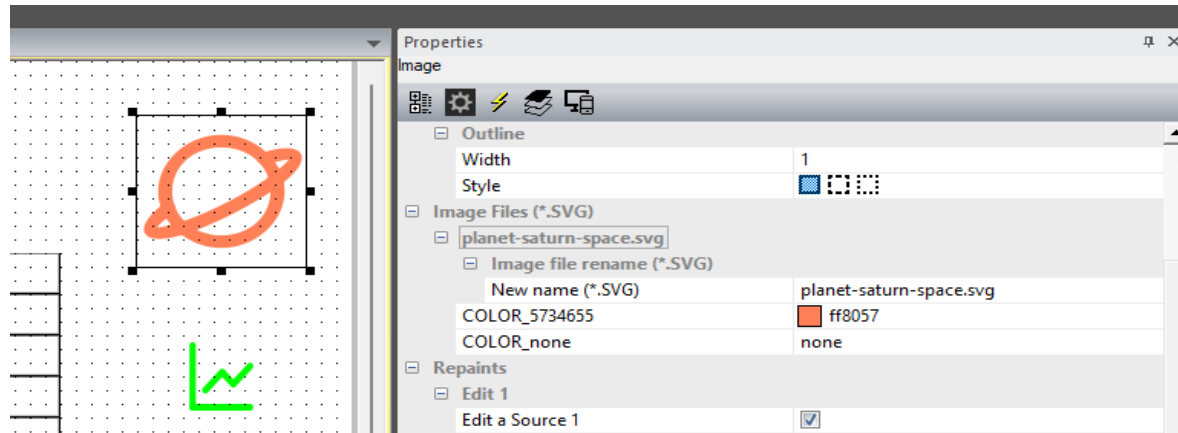


Vector Graphics (SVG) with extendable Libraries

- Add your own SVG Folders

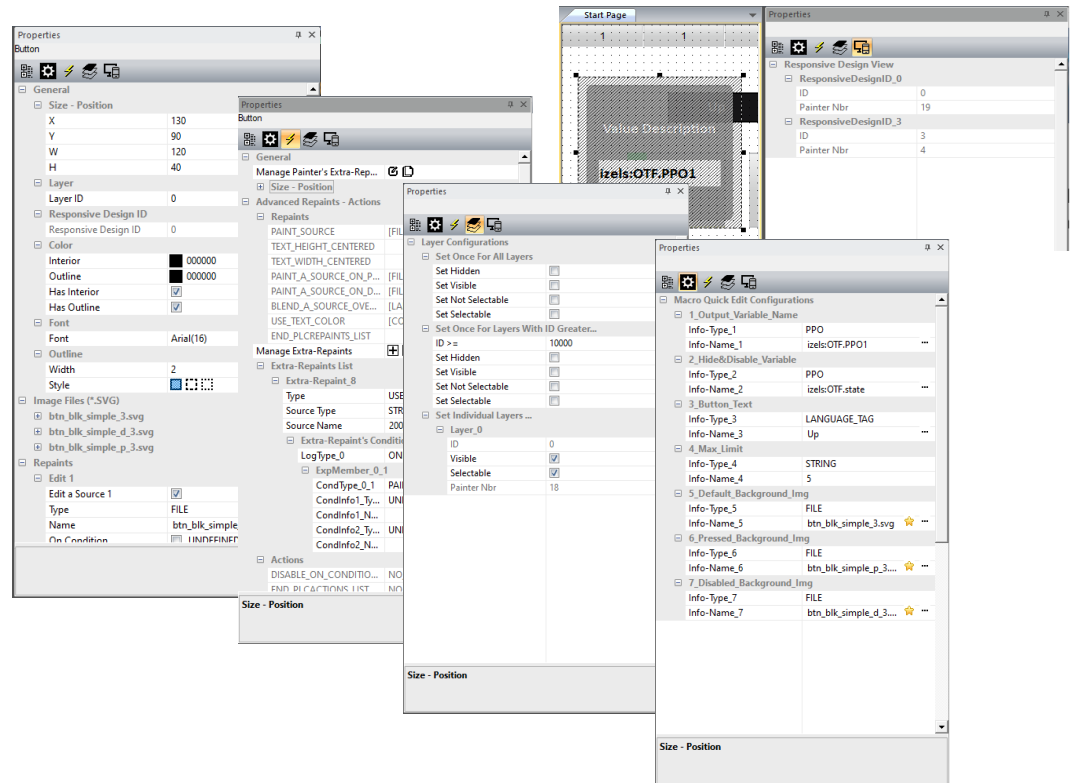


Modify SVG Properties From Within Editor

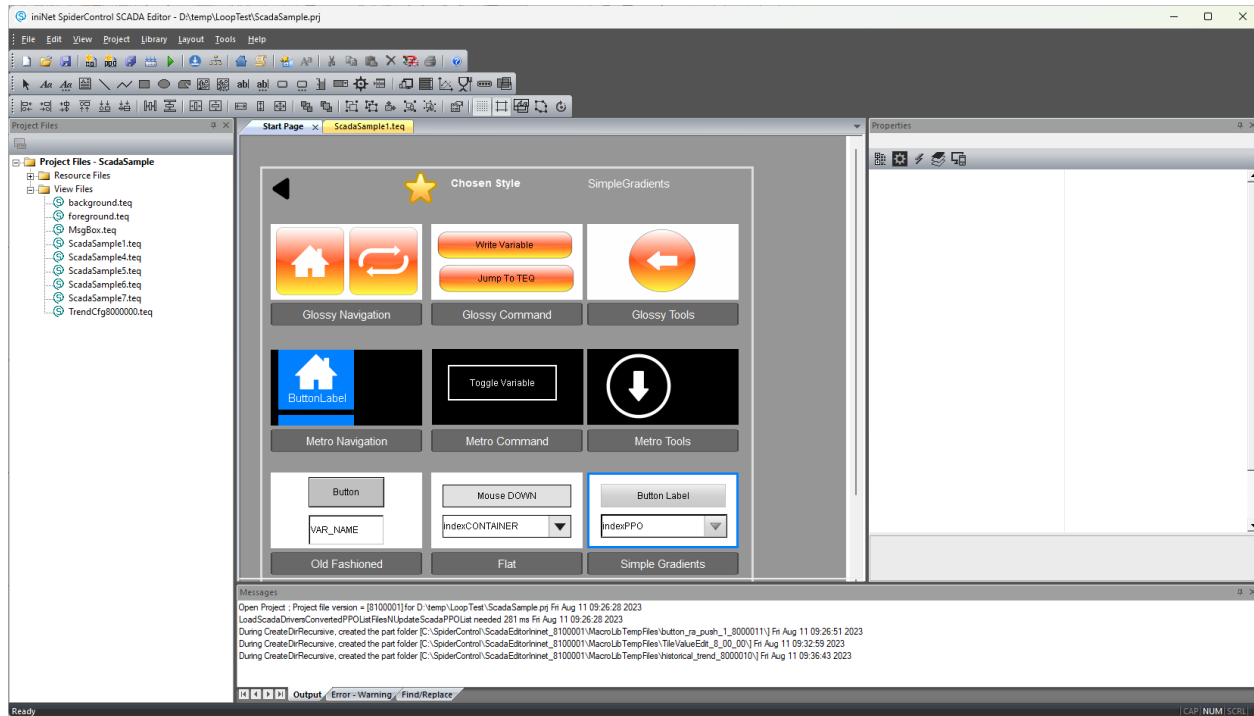


Object Properties Management

- Default Property View
- Advanced and extensible View
- Quick Edit Mode: Tag only important properties
- Specific Macro Dialogues
- Layer Property for easier Edit
- Cross File Reference with Find Replace
- Project Find/Replace
- Tile Group Property for Responsive Designs

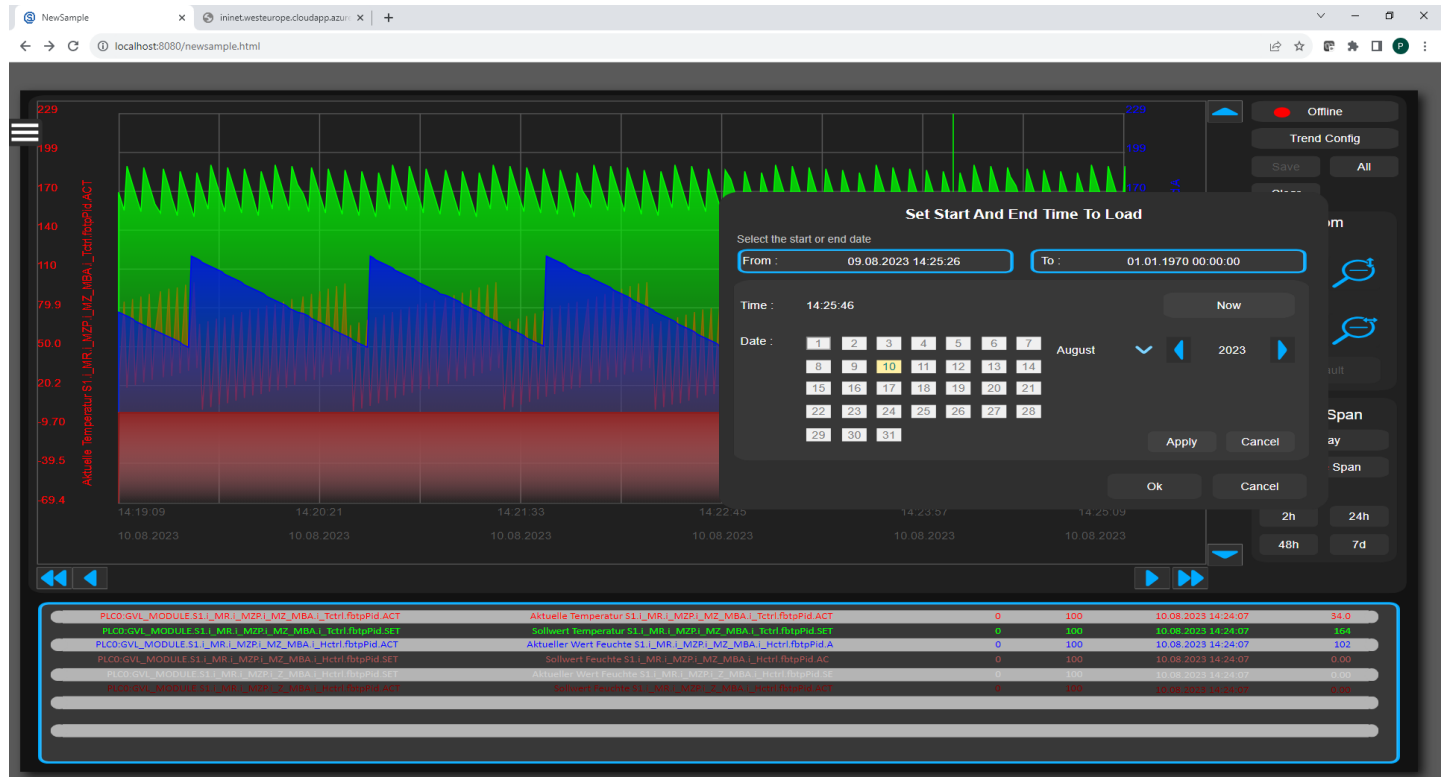


Pre-Defined Styles For Standard Objects



Historical and Online Trends

- Online and Offline
- Store in Server
- Csv Export
- Scroll and Swipe
- Load Span
- Ruler
- Timestamps
- Flexible Axis
- Modify Features
- Modify Colors



Historical and Online Trends

Trending configuration

Trends to display

Nbr	Trends	Min	Max	Scalar	Del
1	Aktuelle Temperatur S1.L_MR.L_MZP.L_MZ_MBA.L	0	100	Scalar&AKS	✖
2	Sollwert Temperatur S1.L_MR.L_MZP.L_MZ_MBA.L	0	100	None	✖
3	Aktueller Wert Feuchte S1.L_MR.L_MZP.L_MZ_MB.L	0	100	Scalar&AKS	✖
4	Sollwert Feuchte S1.L_MR.L_MZP.L_MZ_MBA.L_Hc	0	100	None	✖
5	Aktueller Wert Feuchte S1.L_MR.L_MZP.L_Z_MBA.L	0	100	None	✖
6	Sollwert Feuchte S1.L_MR.L_MZP.L_Z_MBA.L_Hc	0	100	None	✖
7					
8					
9					
10					

Profile selection

Active profile: Luwa1

Define a name for the profile

- Luwa1
- new
- zruzruzt
- zrjrzj
- prola

Load Save

Add the trends to display

	Trends	
1	Temperatur Vorlauf 1 Sollwert	+
2	Temperatur Vorlauf 2 Sollwert	+
3	Temperatur Vorlauf 3 Sollwert	+
4	Temperatur Vorlauf 1 Istwert	+
5	Temperatur Vorlauf 2 Istwert	+
6	Temperatur Vorlauf 3 Istwert	+
7		
8		
9		
10		

Filter

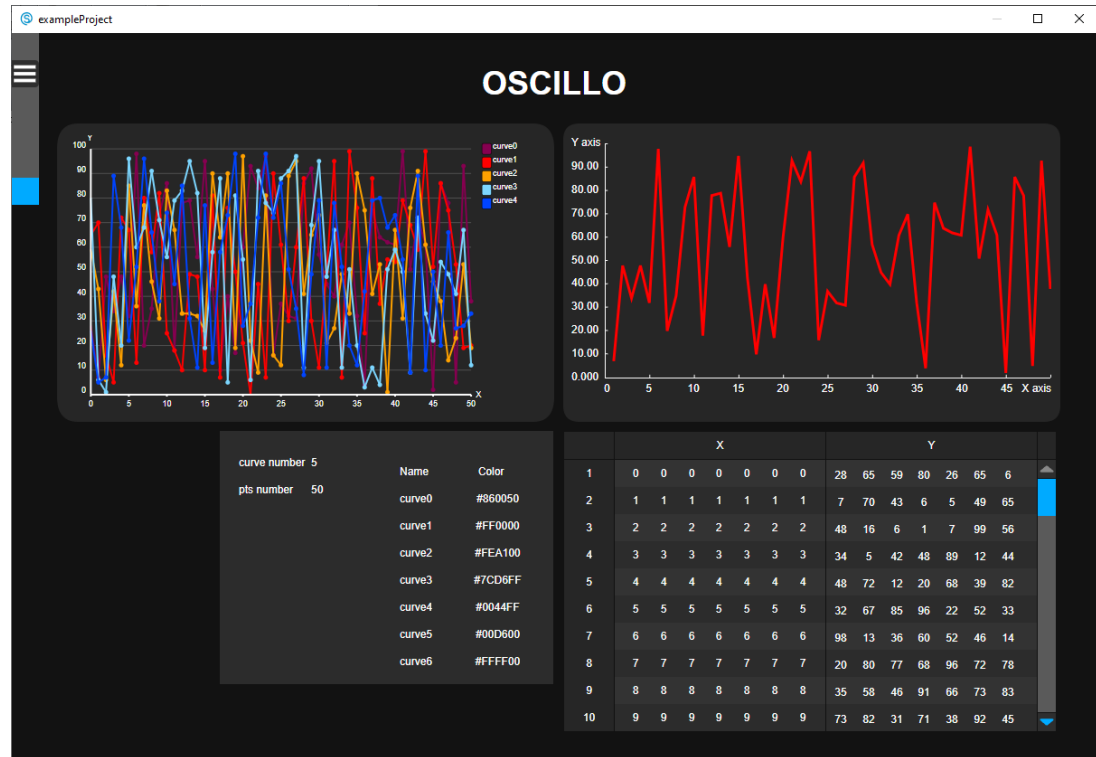
0

1
2
3
4
5
6
7
8
9
10

- Define User Sets
- Load and Store
- Select from all
- Filter curves

Oscilloscope

- Read Arrays of values from the server
- Full refresh with >100ms of complete curve
- Full X/Y coordinates for every value
- Array size is user defined



Alarms

- Translated Texts
- Timestamps
- Time On / Off
- Acknowledge
- Filters
- Active / History
- Csv export
- Stored in server

STATIC TEXT

ID	Alarm Text	On	Off	ACK
3	ALRLIST0_3	10.08.2023 15:43:45	--	NAK
3	ALRLIST0_3	10.08.2023 15:42:41	10.08.2023 15:43:00	NAK
3	ALRLIST0_3	10.08.2023 15:41:38	10.08.2023 15:41:57	NAK
3	ALRLIST0_3	10.08.2023 15:40:33	10.08.2023 15:40:52	NAK
3	ALRLIST0_3	10.08.2023 15:39:30	10.08.2023 15:39:49	NAK
3	ALRLIST0_3	10.08.2023 15:38:25	10.08.2023 15:38:44	NAK
3	ALRLIST0_3	10.08.2023 15:37:22	10.08.2023 15:37:40	NAK
3	ALRLIST0_3	10.08.2023 15:36:17	10.08.2023 15:36:36	NAK
3	ALRLIST0_3	10.08.2023 15:35:14	10.08.2023 15:35:32	NAK
3	ALRLIST0_3	10.08.2023 15:34:10	10.08.2023 15:34:29	NAK
3	ALRLIST0_3	10.08.2023 15:33:06	10.08.2023 15:33:24	NAK
3	ALRLIST0_3	10.08.2023 15:32:02	10.08.2023 15:32:21	NAK
3	ALRLIST0_3	10.08.2023 15:30:58	10.08.2023 15:31:16	NAK
3	ALRLIST0_3	10.08.2023 15:29:54	10.08.2023 15:30:13	NAK
3	ALRLIST0_3	10.08.2023 15:28:50	10.08.2023 15:29:09	NAK
3	ALRLIST0_3	10.08.2023 15:27:46	10.08.2023 15:28:05	NAK
3	ALRLIST0_3	10.08.2023 15:26:41	10.08.2023 15:27:01	NAK
3	ALRLIST0_3	10.08.2023 15:25:36	10.08.2023 15:25:57	NAK
3	ALRLIST0_3	10.08.2023 15:24:34	10.08.2023 15:24:53	NAK
3	ALRLIST0_3	10.08.2023 15:23:30	10.08.2023 15:23:49	NAK
3	ALRLIST0_3	10.08.2023 15:22:26	10.08.2023 15:22:45	NAK
3	ALRLIST0_3	10.08.2023 15:21:22	10.08.2023 15:21:41	NAK
3	ALRLIST0_3	10.08.2023 15:20:18	10.08.2023 15:20:37	NAK
3	ALRLIST0_3	10.08.2023 15:19:14	10.08.2023 15:19:33	NAK
3	ALRLIST0_3	10.08.2023 15:18:10	10.08.2023 15:18:29	NAK
3	ALRLIST0_3	10.08.2023 15:17:06	10.08.2023 15:17:25	NAK
3	ALRLIST0_3	10.08.2023 15:16:02	10.08.2023 15:16:21	NAK
3	ALRLIST0_3	10.08.2023 15:14:58	10.08.2023 15:15:17	NAK
3	ALRLIST0_3	10.08.2023 15:13:54	10.08.2023 15:14:13	NAK
3	ALRLIST0_3	10.08.2023 15:12:51	10.08.2023 15:13:10	NAK
3	ALRLIST0_3	10.08.2023 15:11:46	10.08.2023 15:12:05	NAK

Acknowledge By:

Sort by time on:

Alarm state filter:

Recipes

- Simple Macro
- Integrated Recipe Template Editor
- Executed inside the SCADA Server
- Unlimited Number of Recipes

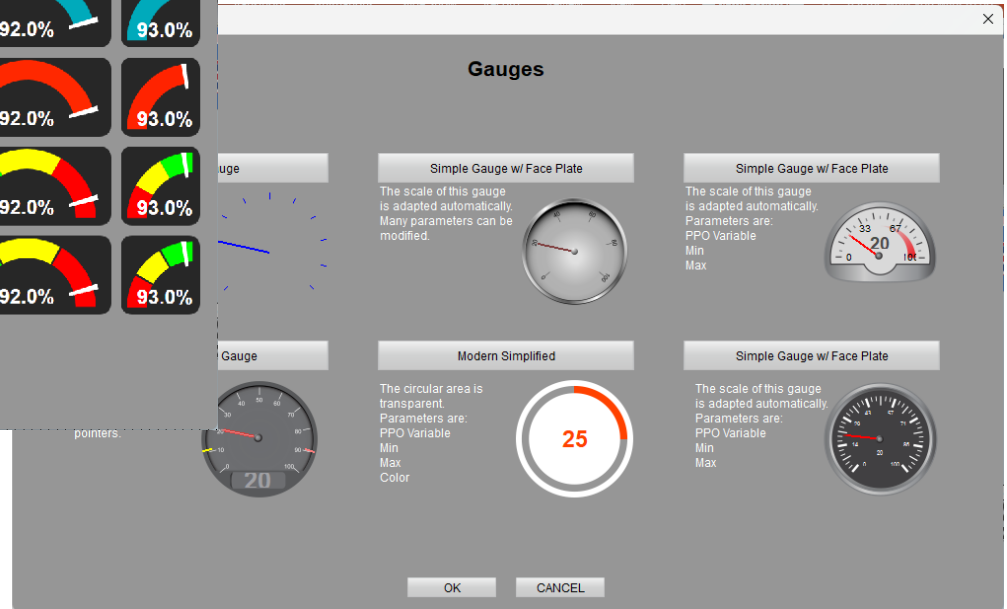
The screenshot displays the SpiderControl software interface. The main window is titled "Recipe Template Files" and shows a table with columns "Recipe Files" and "Description". A table with one row containing "myRecipe.csv" is visible. An "Add-New" button is present in the top right corner of the table.

Overlaid on this is a "Library-Browser" window titled "Recipe". It features a "Recipe" panel with a list of numbers 1 through 10. Below this panel are buttons for "Upload file to PLC" and "Download file from PLC". The path "C:\SpiderControl\Scar" is shown. To the right of the panel is a text area with instructions: "To write to the PLC press the [button icon]". Below the text area is a "Recipe Manager" button.

Another window titled "myRecipe.csv [] Configurations" is overlaid on the right. It shows a table with columns "PPO" and "Add-New". The table contains three rows with values "izels:OTF.PPO1", "izels:OTF.PPO2", and "izels:OTF.PPO3". Each row has an "Add-New" button and a trash icon.

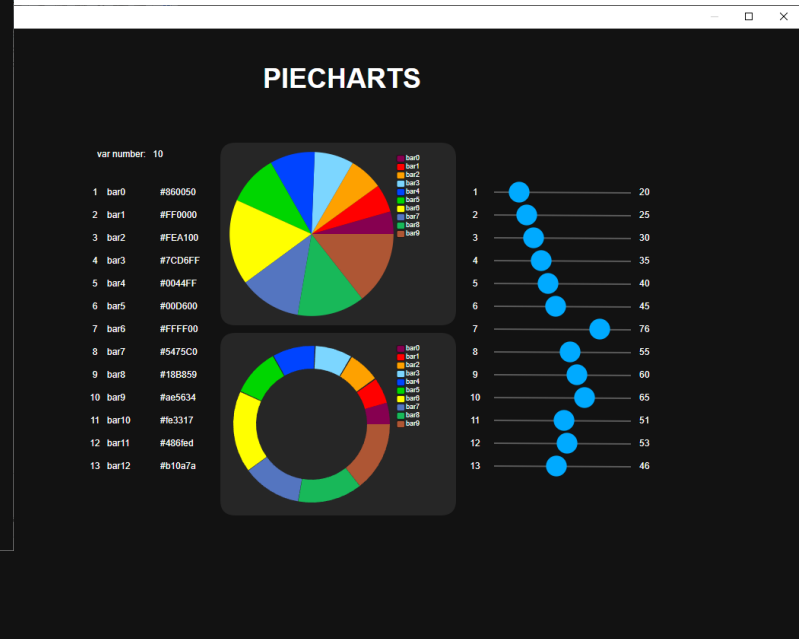
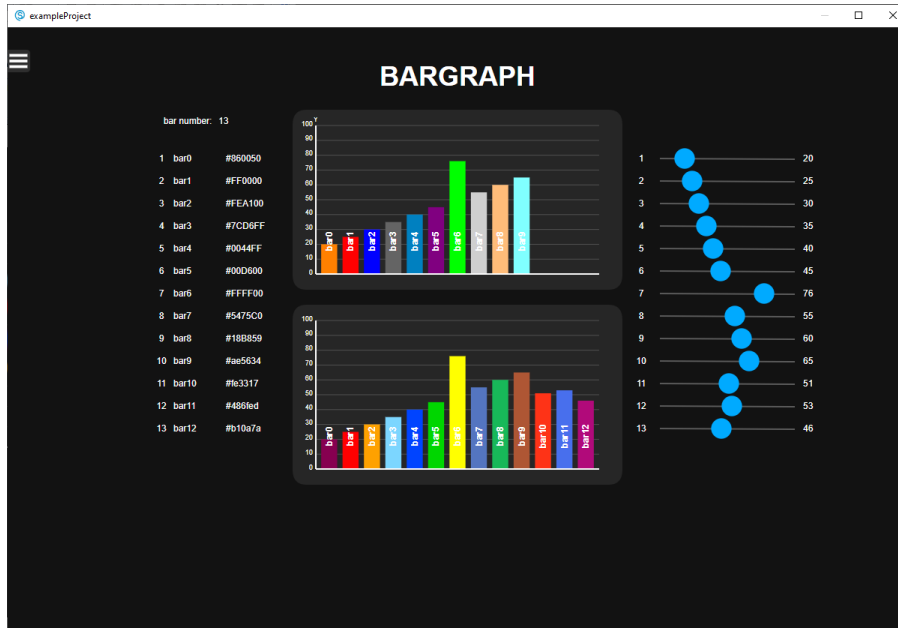
At the bottom of the "Library-Browser" window, there is a note: "Please ensure that your PLC's web server supports Recipe before using this macro." and "OK" and "CANCEL" buttons.

Gauges



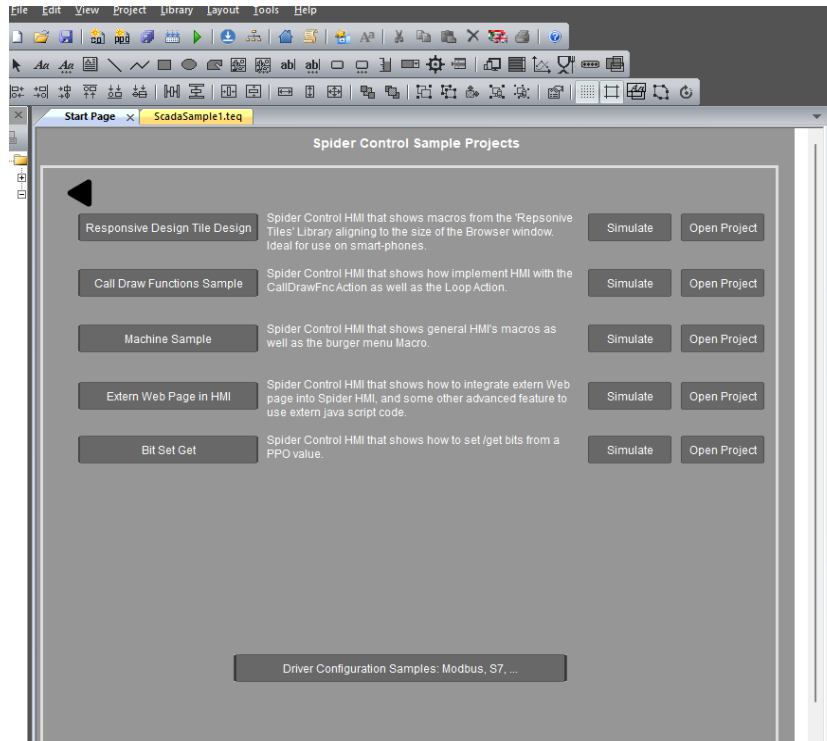
Pie-Charts, Bar-Graph Arrays

- Any number of Values
- Change during runtime



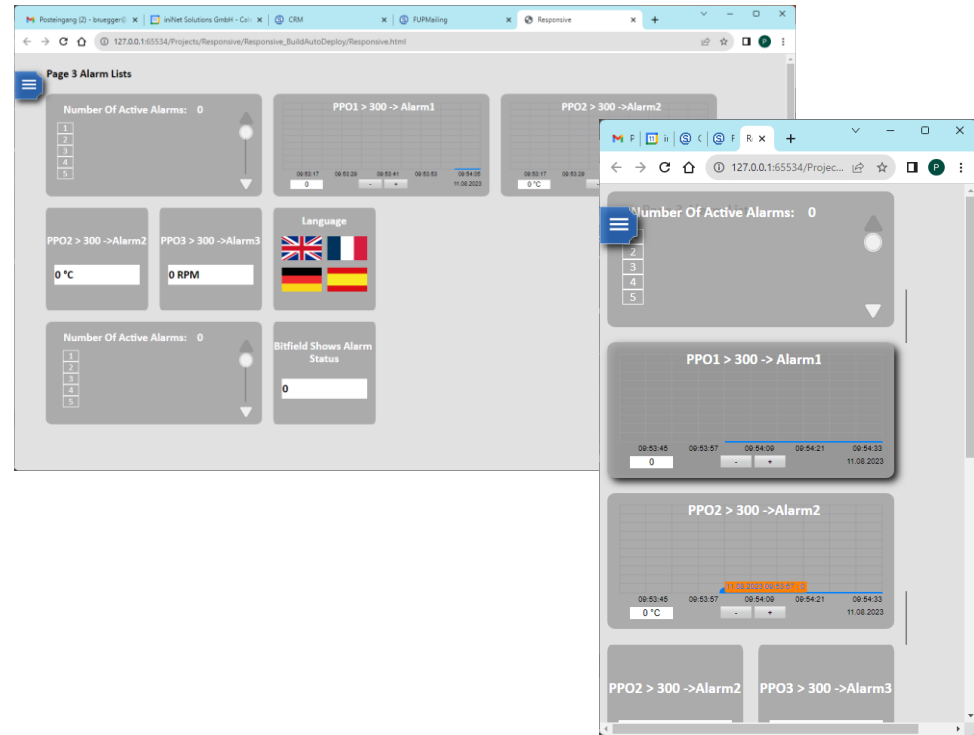
Integrated Sample Projects

- **Sample Projects for Various Applications**
- **Driver Configuration Sample**



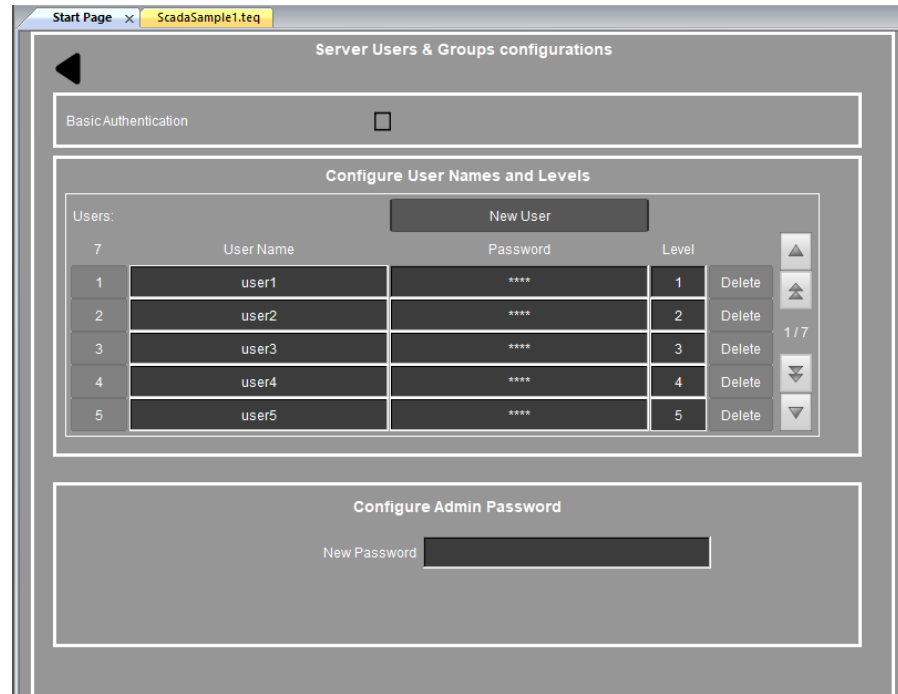
Responsive Design, Fluid Design, Aspect Ratio

- **Responsive Design Supported by User Definable Tile Assignment**
- **Landing Page can distinguish Display Size and Aspect Ratio and Pre-Select desired HMI family**
- **Fluid Design Adapts to given Client Window Size**

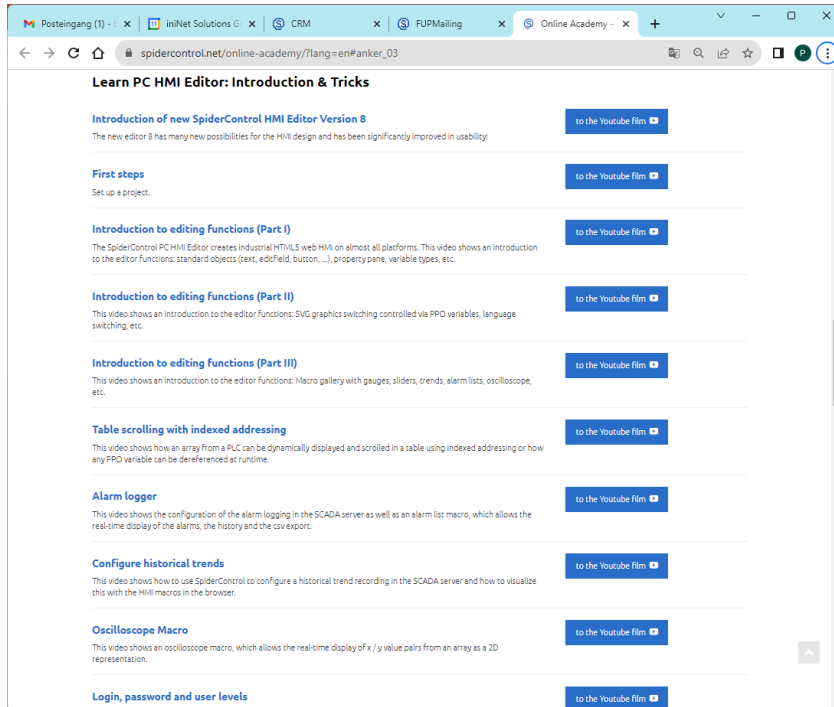


Users, Passwords and User Groups

- **Users and Passwords can be both defined in the Editor as well as online on the SCADA**
- **User Level can be assigned to any User**
- **User can change his password within the HMI application**
- **Token mechanisms supported (only one client can write)**
- **SCADA server can be fully protected by BA**
- **Alternative: Only simple password which are defined in HMI project**

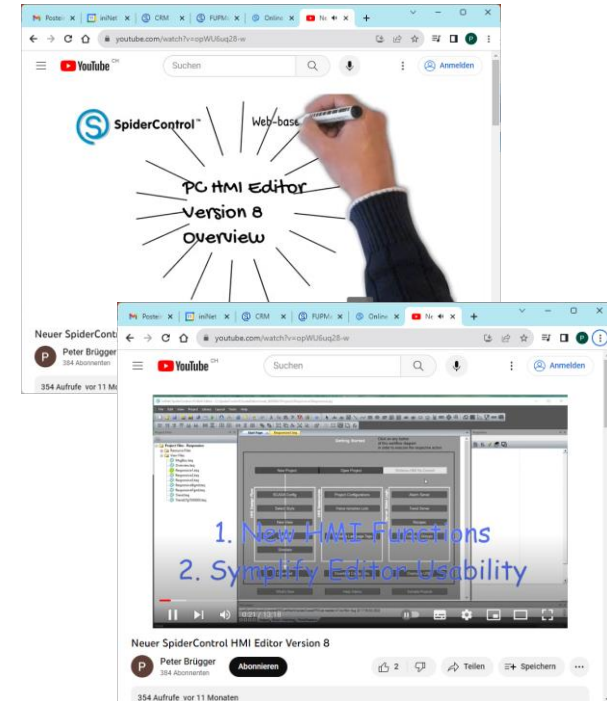


Online Academy: Video Tutorials To Explain All Aspects



Learn PC HMI Editor: Introduction & Tricks

- Introduction of new SpiderControl HMI Editor Version 8**
The new editor 8 has many new possibilities for the HMI design and has been significantly improved in usability. [to the Youtube film](#)
- First steps**
Set up a project. [to the Youtube film](#)
- Introduction to editing functions (Part I)**
The SpiderControl PC HMI Editor creates industrial HTML5 web HMI on almost all platforms. This video shows an introduction to the editor functions: standard objects (text, editfield, button, ...), property pane, variable types, etc. [to the Youtube film](#)
- Introduction to editing functions (Part II)**
This video shows an introduction to the editor functions: SVG graphics switching controlled via PPO variables, language switching, etc. [to the Youtube film](#)
- Introduction to editing functions (Part III)**
This video shows an introduction to the editor functions: Macro gallery with gauges, sliders, trends, alarm lists, oscilloscope, etc. [to the Youtube film](#)
- Table scrolling with indexed addressing**
This video shows how an array from a PLC can be dynamically displayed and scrolled in a table using indexed addressing or how any PPO variable can be dereferenced at runtime. [to the Youtube film](#)
- Alarm logger**
This video shows the configuration of the alarm logging in the SCADA server as well as an alarm list macro, which allows the real-time display of the alarms, the history and the cov export. [to the Youtube film](#)
- Configure historical trends**
This video shows how to use SpiderControl to configure a historical trend recording in the SCADA server and how to visualize this with the HMI macros in the browser. [to the Youtube film](#)
- Oscilloscope Macro**
This video shows an oscilloscope macro, which allows the real-time display of x / y value pairs from an array as a 2D representation. [to the Youtube film](#)
- Login, password and user levels** [to the Youtube film](#)



SpiderControl™ Web-based

PC HMI Editor Version 8 Overview

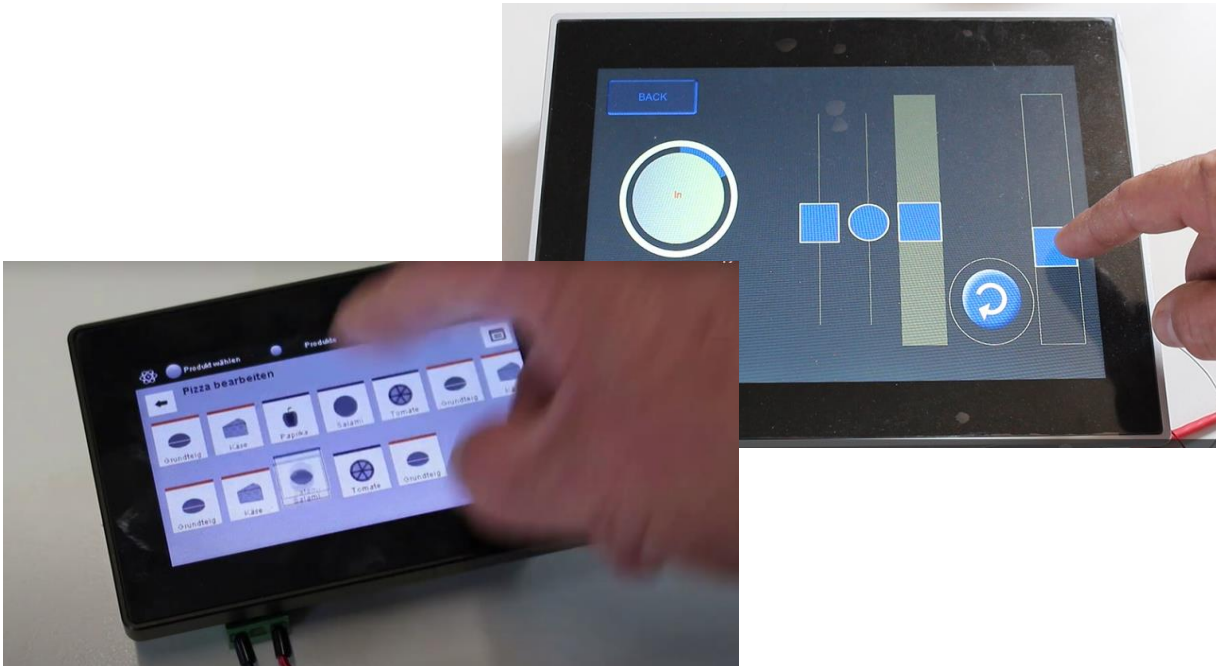
1. New HMI Functions
2. Simplify Editor Usability

Neuer SpiderControl HMI Editor Version 8

Peter Brügger
354 Abonnenten

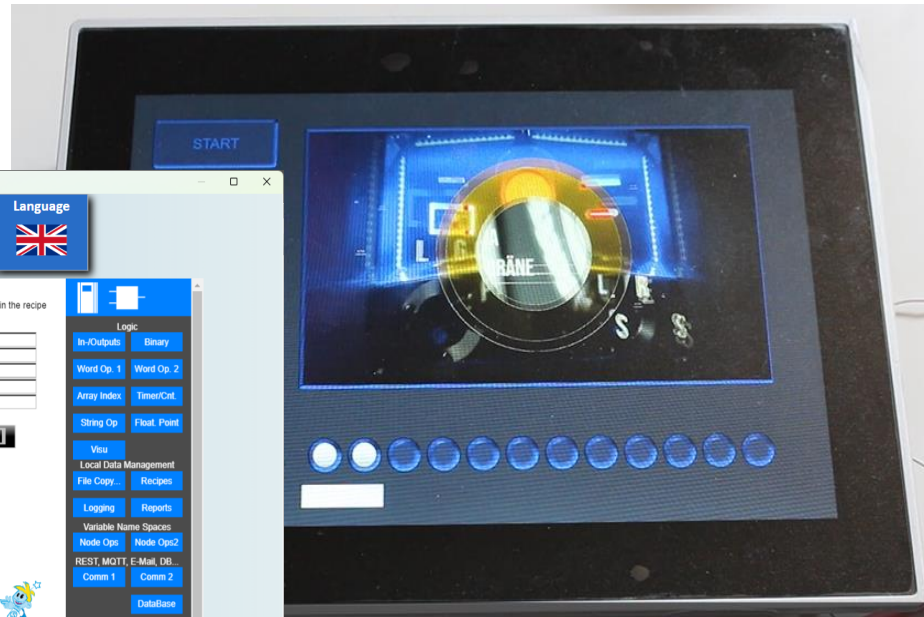
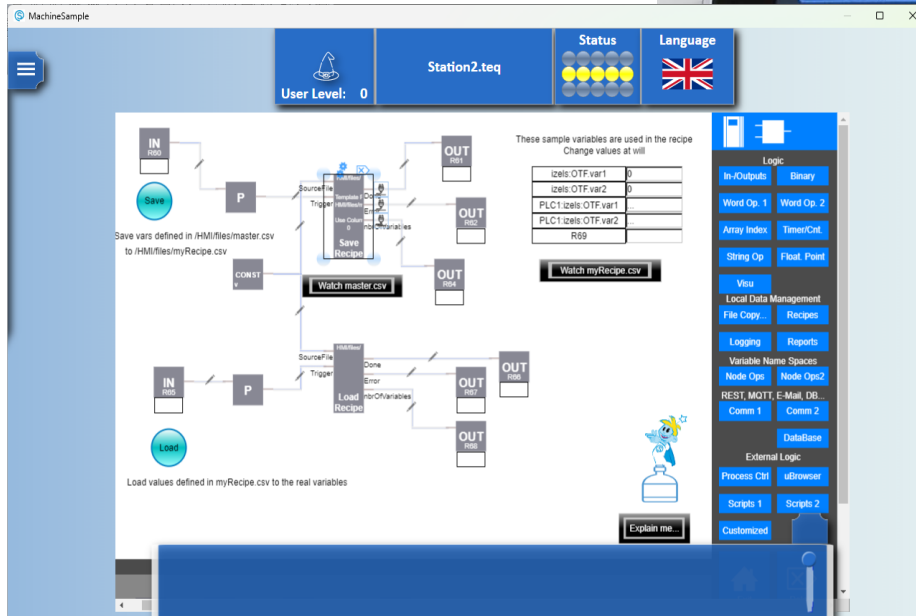
354 Aufrufe vor 11 Monaten

Swipe Gestures, Make Any Object Draggable



Sub-Windows

- External HTML Sources integrated in HMI: Videos, Maps, Tools,...



Scripting

- Repaints and Actions can also be edited in integrated ASCII Editor
- Full Copy/Paste
- Modify Common Actions for a Selection of Objects
- Loops

The screenshot displays the iniNet SpiderControl SCADA Editor interface. The main window shows a project tree on the left with files like 'Alarms.teq', 'backgroundMach...', 'foregroundMach...', 'MachineSample1...', 'MachineSample1...', 'md_migbox.teq', 'MigBox.teq', 'Overview.teq', 'Recipes.teq', 'Settings.teq', 'SliderBtn.teq', 'SliderBtnLEDType...', 'Station1.teq', 'Station2.teq', 'Station3.teq', 'TrendCfg700000...', and 'Trends.teq'. The central 'Spider/Editor' window is open, showing a script for 'RepaintsList' and 'ActionsList'. The 'RepaintsList' script includes a loop for drawing a drop shadow on a container. The 'ActionsList' script includes actions for getting painter coordinates and destinations. The right side of the interface shows a 'Properties' window for a 'Button' object, with sections for 'General', 'Advanced Repaints - Actions', and 'Manage Extra-Repaints'. The 'Advanced Repaints - Actions' section shows a list of repaints and actions. The 'Manage Extra-Repaints' section shows a list of extra-repaints and actions. The bottom status bar shows the current state as 'Ready' and the output window displays deployment logs.

```
1 //SCRIPT FILE GENERATED FROM INI.NET - SpiderControl SCADA Editor on: Fri Aug 11 11:32:54 2023
2 RepaintsList {
3
4 //Repaint_1
5 IF( PAINTER_IS_MOUSE_OVER)
6 {
7   DRAW_DROP_SHADOW
8   {
9     Source [CONTAINER 'css_scdropshadow']
10  }
11 }
12 }
13
14 ActionsList {
15
16 //Action_1
17 GET_PAINTER_ORG_X_IN_DESTINATION ON( HOUSE_DOWN_EVENT)
18 {
19   Source [STRING '']
20   Destination [CONTAINER 'robotDlg']
21 }
22
23 //Action_3
24 GET_PAINTER_ORG_Y_IN_DESTINATION ON( HOUSE_DOWN_EVENT)
25 {
26   Source [STRING '']
27   Destination [CONTAINER 'robotDlg']
28 }
29
30 }
```

Program Your Own Objects: Script To Direct Write Graphic API

SetPixelAlpha
DrawLineAlpha
DrawRectAlpha
FillRectAlpha
DrawRoundRectAlpha
FillRoundRectAlpha
EllipseWithAlpha
DrawTextWithAngle
DrawArc

