COMBIVIS Studio HMI 4.0

Lesson 6

Trend, Embetted Object & Alarm

You will learn in this lesson...
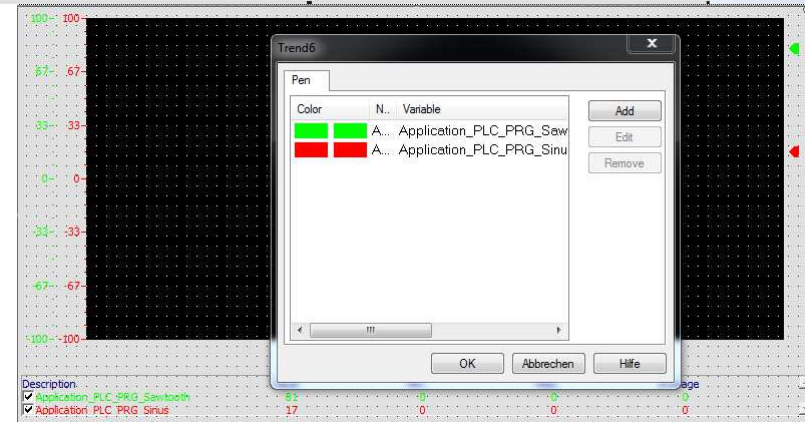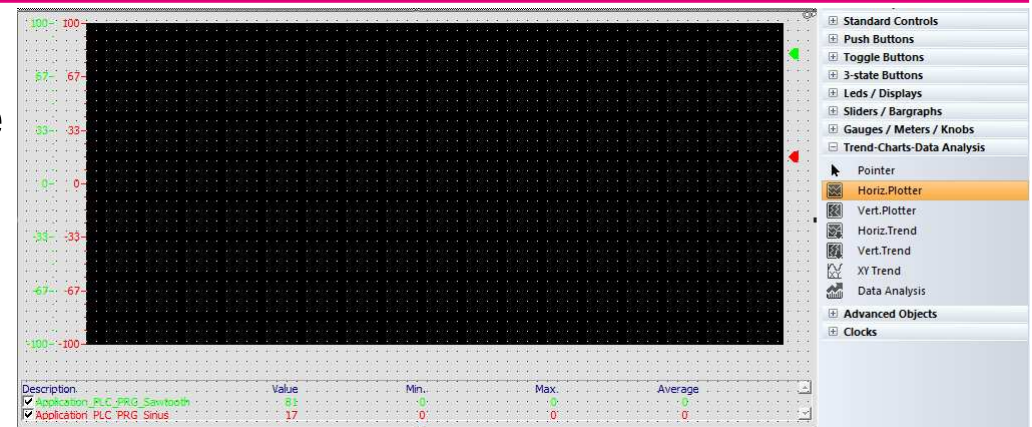
Goal:

- Create a:
    - Embedded Object
    - Trend
    - Alarm

Trend

- Add a trend (e.g. "Horizontal Plotter") via drag & drop from the toolbox

- The object can be scaled and positioned freely

- Add a variable via drag & drop to the trend (or Shift + Double click left mouse)

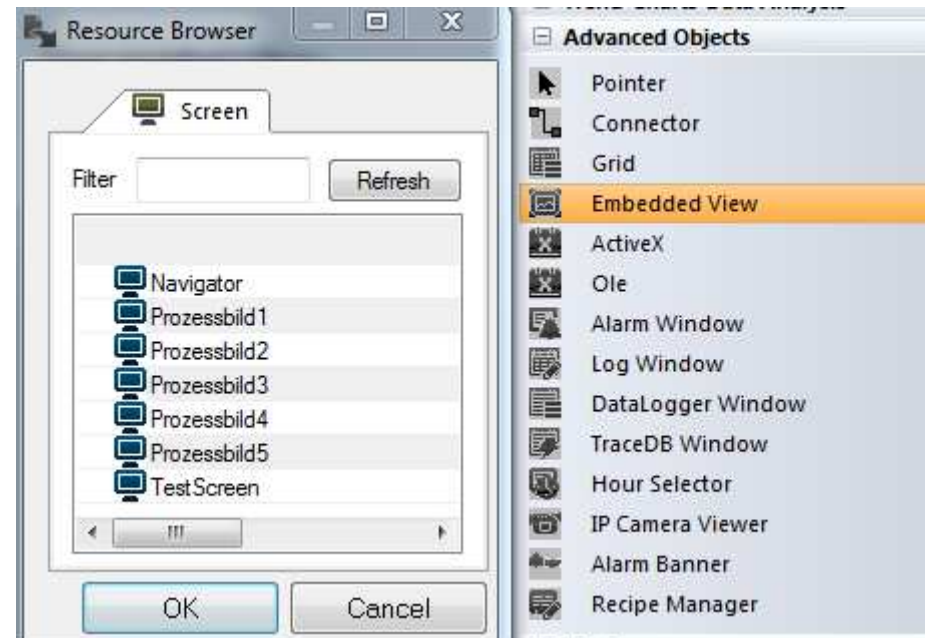- The resolution, frequence, actualisation and many more properties of the trend can be set via „Execution"
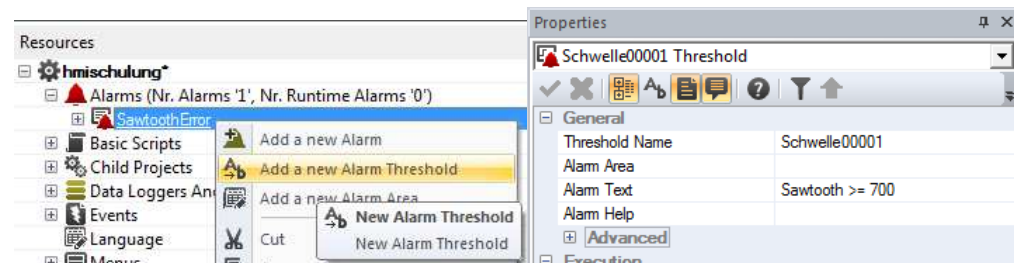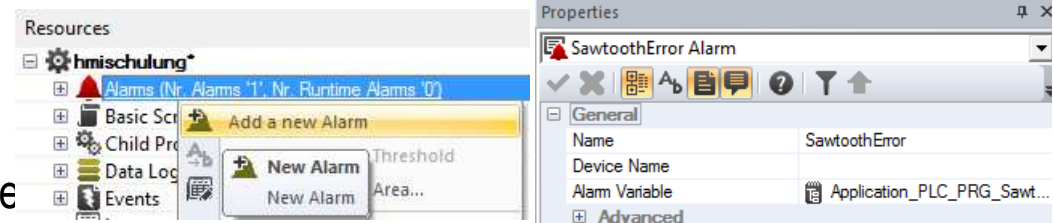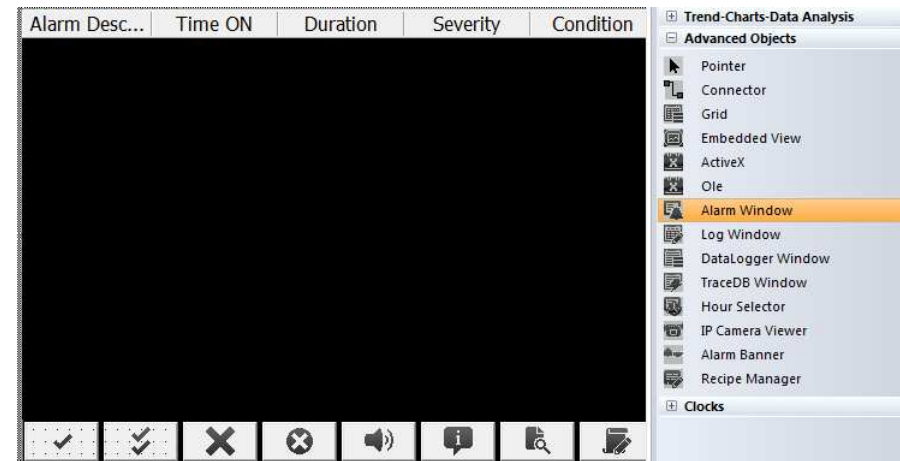
Embedded screens

- An embedded screen will be created as a standard-screen

- The „Embedded View" can be added via drag & drop to the active screen

- The screen is scaleable and positionable freely

- Use this element for standard-visualization, which should be looks similiar at all screens (e.g. navigation-bars, language selection, user-management, Status-screen, etc.)

Alarm-management and -handling

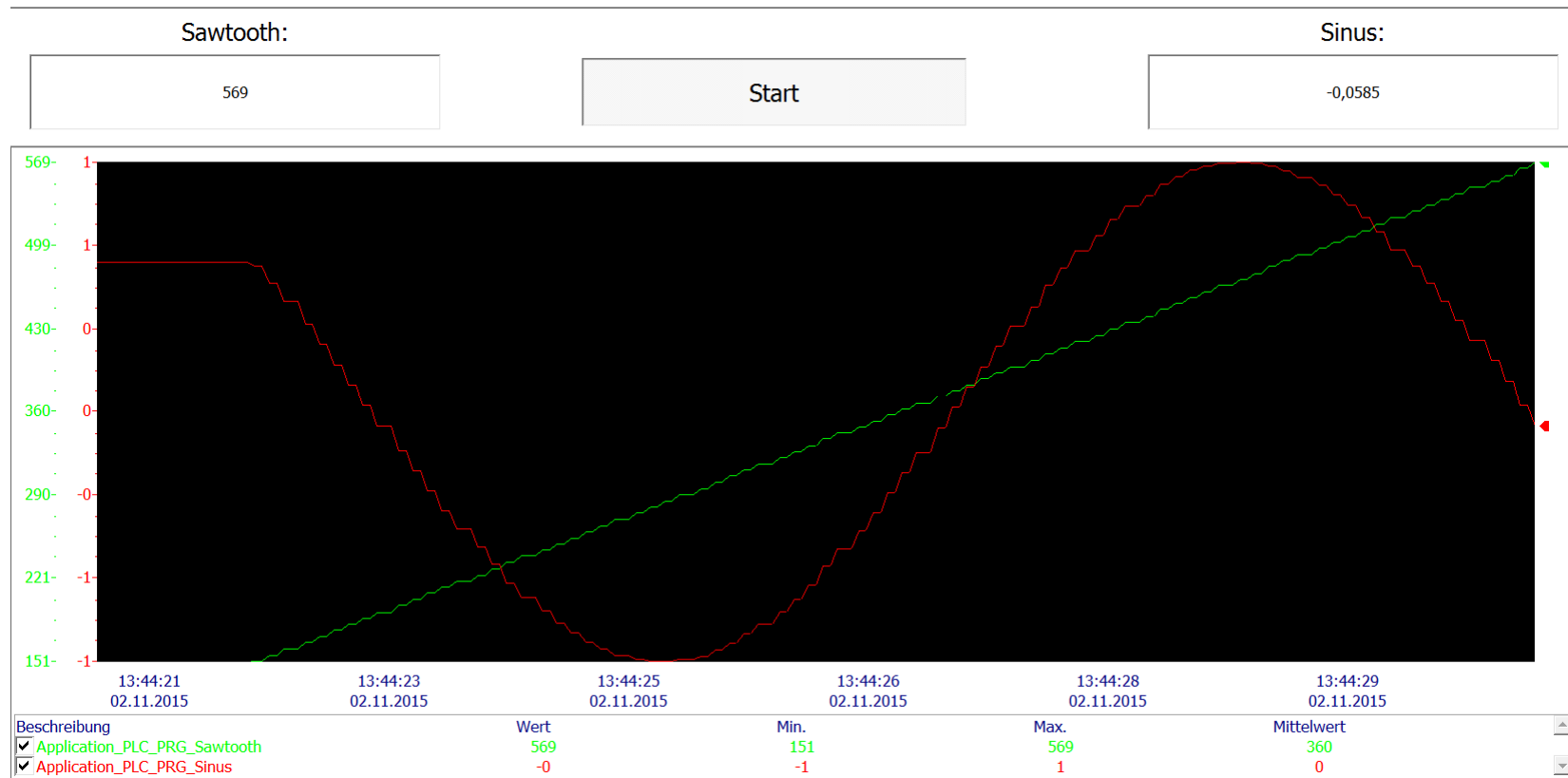- For an easy handle and overview of alarms you can add the „Alarm Window"

- Every alarm gots a variable (properties) which triggers the alarm

- A threshold defines the limit of the alarm

- You can set the activation-value, -codition and text in the threshold

- It´s possible to add a dynamic value of a variable to the text with "%(varname)"

- Use the „Alarm Banner" for a compact overview of the current alarms

Practice

1. Add a trend („Horizontal Plotter") to the Screen2 and link the variables „Sawtooth" and „Sinus".

Practice

2. Add a new screen („**Screen3**") and insert the „Alarm Window" via drag & drop.

    A. Add an alarm(„**SawtoothError**") with attached Alarm-threshold, which triggers if the „Sawtooth" is greater/equal 700.

    B. Text-output of alarm-threshold „**Sawtooth >= 700**"

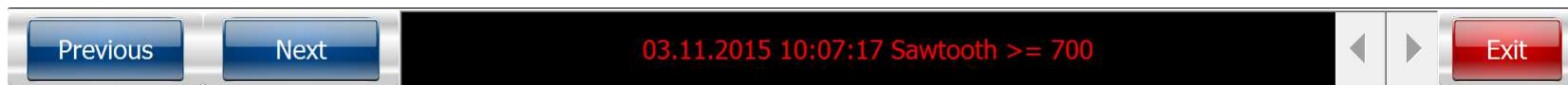| Alarm-Beschreibung	ON-Zeit	Dauer	Schweregrad	Bedingung
⚠ Sawtooth >= 700	02.11.2015 13:55:18		1	ON

Practice

3) Create and add an embedded view („**Navigator**") with following objects:

    a) Button **„Previous"** to switch to the previous screen (ID!)

    b) Button „**Next**" to switch to the next screen (ID!)

    c) Alarm-Banner with invisible button („hot Region"), which switches to the alarm-manager (Screen3)

    d) Button „**Exit**" for shutting down the application

        Note: fit the screen to the size of the HMI (eg.: screenwidht x 50)

| Previous | Next | 03.11.2015 10:07:17 Sawtooth >= 700 | ◄ | ▶ | Exit |

4. Upload the project to the HMI

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..go on with lesson 7 – Events & multilanguage projects