

- Responsive design
- Client-specific localization
- Alarm management
- XY chart / trend
- Scripting step 1

1 Responsive design

Client-specific localization

Alarm management

XY chart / trend

Scripting step 1

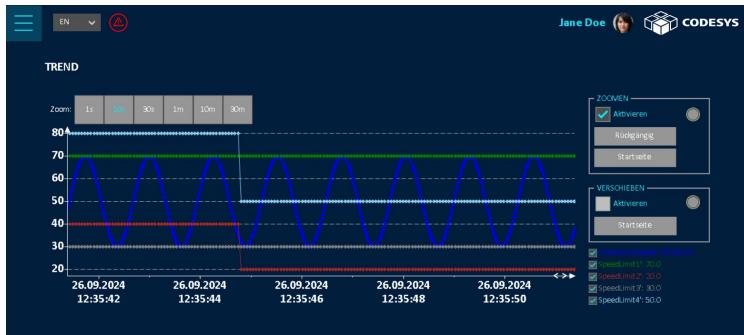
Positioning of elements depending on the client size

Use of Container.Size and Visu.Size



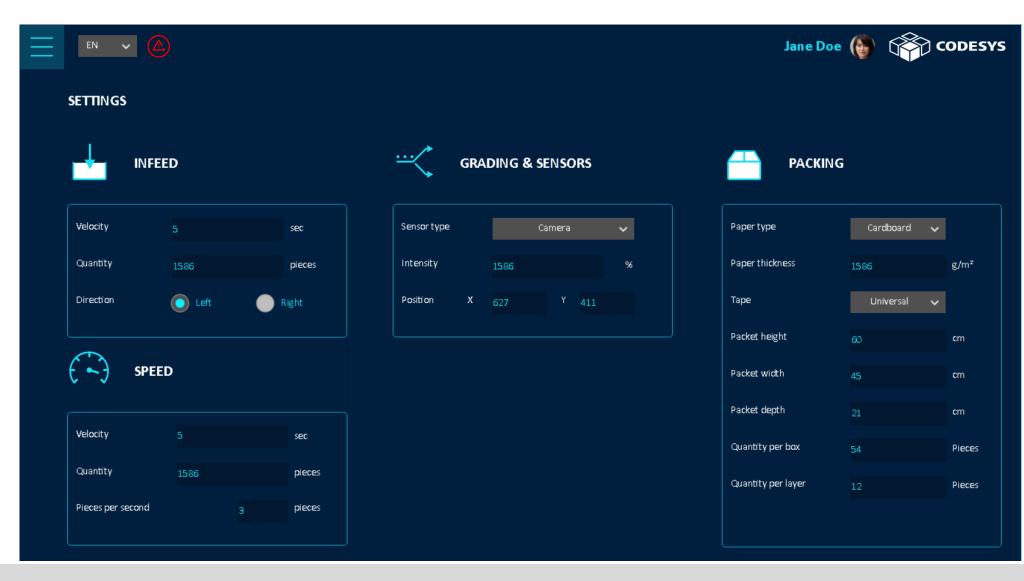
- Container.Size is the client size on each main page.
- Possibilities
 - Alignment
 - Filling of areas





Positioning of elements depending on the client size

Wrap content



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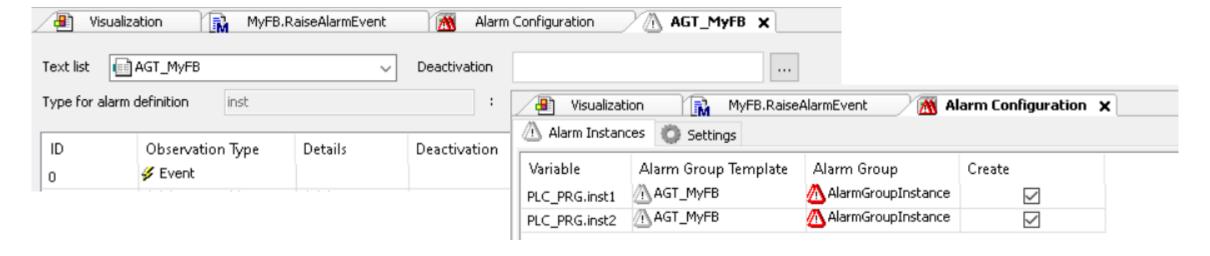
Client-specific localization

- Each visualization client can have its own language.
- Client starts with browser language (de, en, ...).
 - Browser language codes de, en, ... must exist in the textlists.
 - Otherwise, the standard language is used.
- Language switching only takes place in the current client.

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New features

- Alarm management: Allow online change in most common use cases
 - Add/remove/modify alarms in alarm group
 - Add/remove/modify alarm instances in alarm configuration
- Possibility to define Alarm Group Templates for types that come from another library
- Possibility to call alarm events from the instance of a function block Alarmmanager.AlarmGlobals.g_AlarmHandler.RaiseEventAlarmInstance(THIS, Alm_AGT_MyFB_Alarm_IDs.ID_0)



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Support of time data types

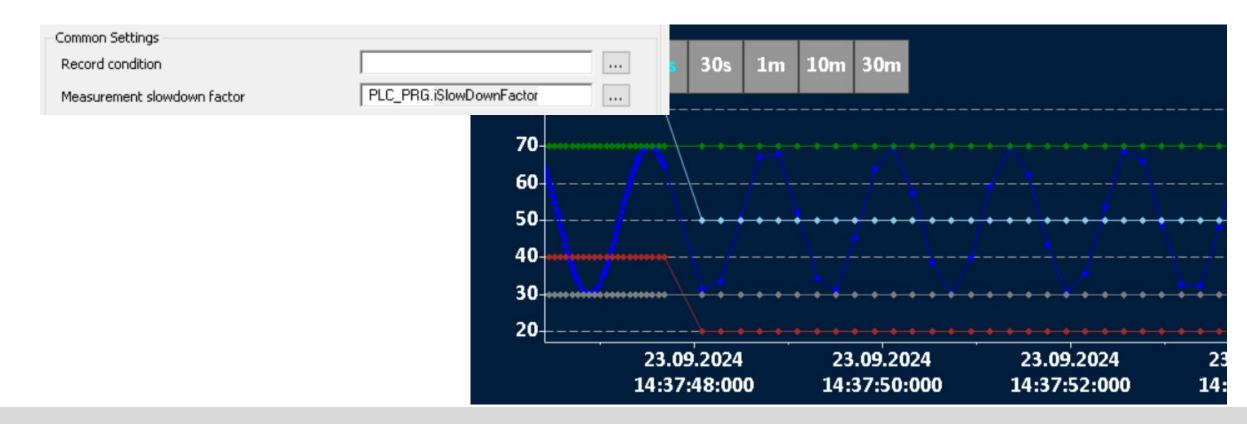
- Time-dependent data can now be displayed in the XY Chart.
- Arrays of the following types can now be used:
 - TIME / LTIME
 - DATE / LDATE
 - TOD / LTOD
 - DT / LDT
- Format strings can be specified.

Format string	dd:MM:yyyy HH:mm:ss
Format string	HH:mm:ss



Dynamic recording interval

- Use case: You wish to adjust the speed of trend recording at runtime.
- New configuration option in the trend: "Measurement Slowdown Factor"
- This can slow down the recording by a factor.



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Scripting step 1

Creating or modifying visualizations via CODESYS python scripting

- Visualizations can be created.
- Elements can be added, removed, or modified.
- Properties can be set.
- Example code:

```
proj = projects.primary
app = findApplication(proj)
visuDemo = app.create_visualobject("VisuDemo");
elementList = visuDemo.visual_element_list;
newElem = elementList.add_element(VisualElementType.Rectangle)
newElem.set_property("Position.X", 10);
newElem.set_property("Position.Y", 20);
```

