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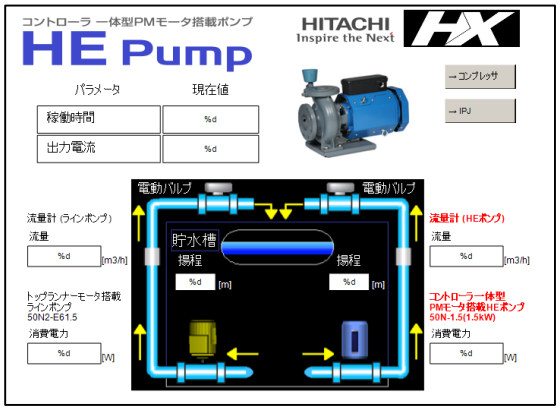
HX-CPU & HX-CODESYS Training

【 Web visualization】

Outline

"**Visualization**" is function that the status or value of data in program displays by lamp or meter.
It is convenience for programmer because Programmer can be check the operation of program without source code.

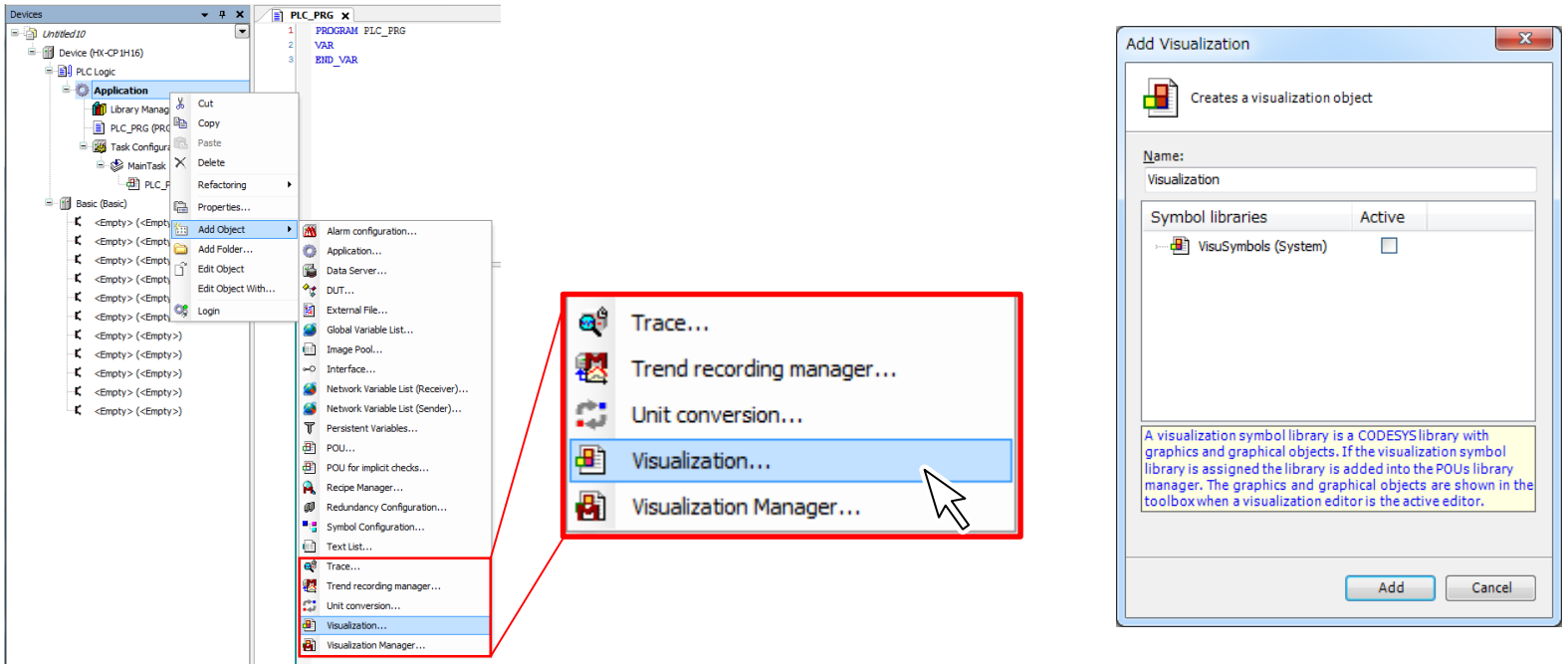


As to the high function model, the visualization can be displayed on the browser like Internet explore, google chrome, and so on.

If customer connects the tablet to HX, tablet can be used as HMI.

Registration of visualization

Right click the mouse on “Application” in project tree, and select “Visualization” from “Add object” on submenu.

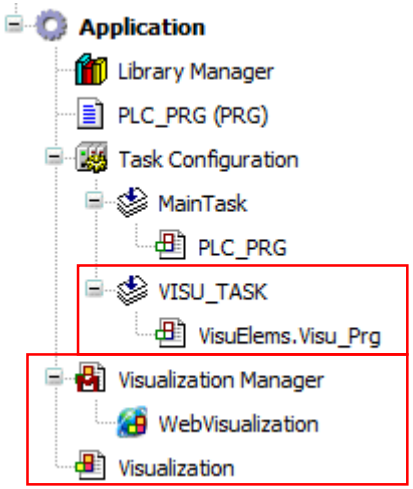


When “Add visualization” window appears, click “add” button.

Registration of visualization

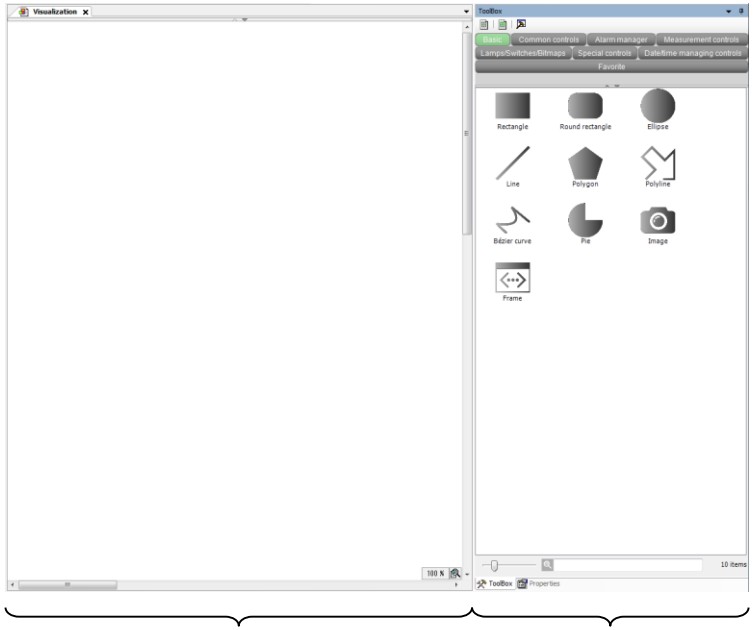
The visualization manager and Visualization are added to the project tree.

“VISU_TASK” for visualization is added in the directory of “Task Configuration” automatically.



Draw the visualization

When you double click “Visualization” on the project tree, Visualization Editor and Visualization tool box will be appeared.

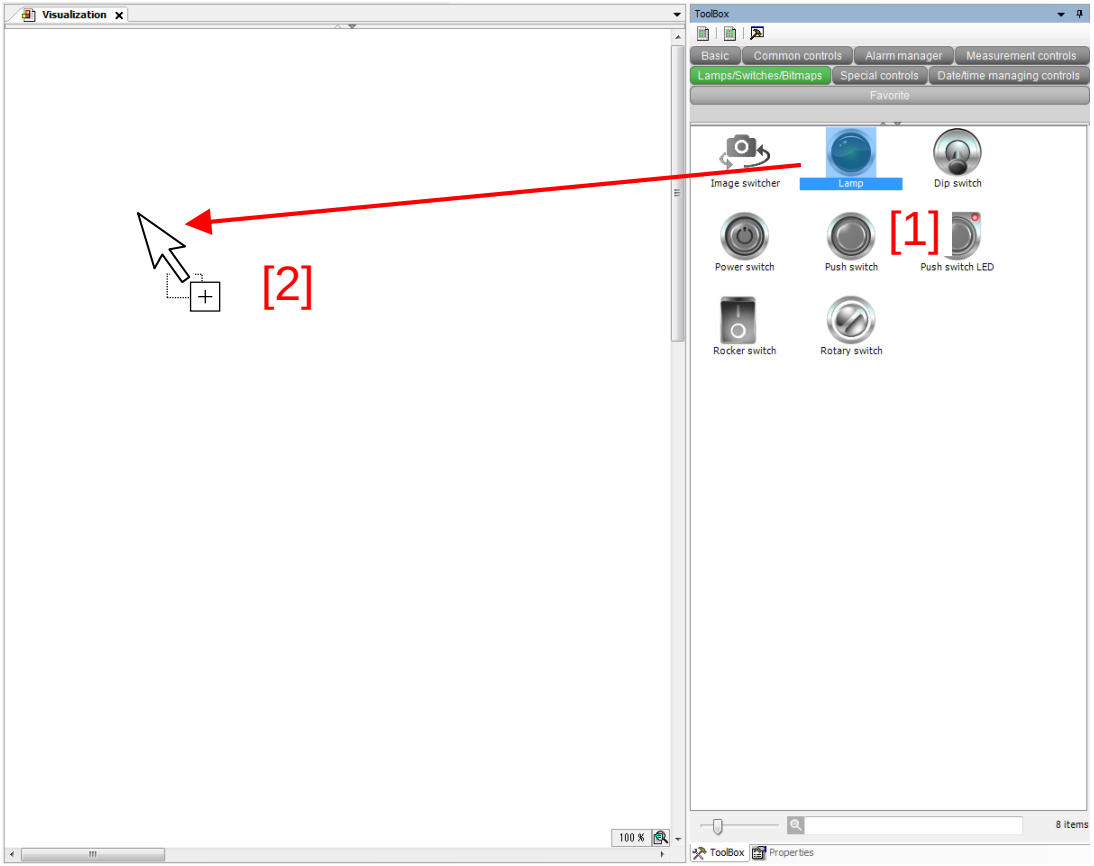


Visualization Editor

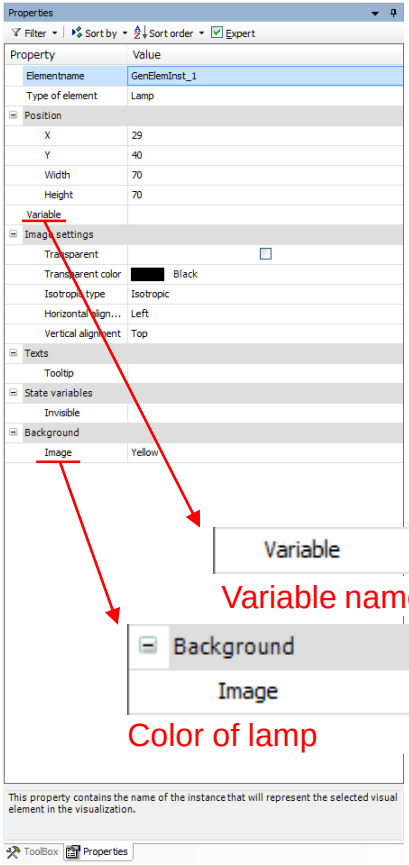
Visualization tool box

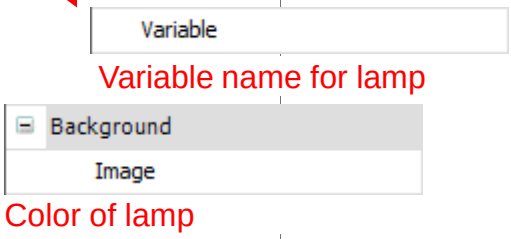
There are the parts (element) that makes up the screen in visualization tool box.

Procedure to draw a lamp



[3]



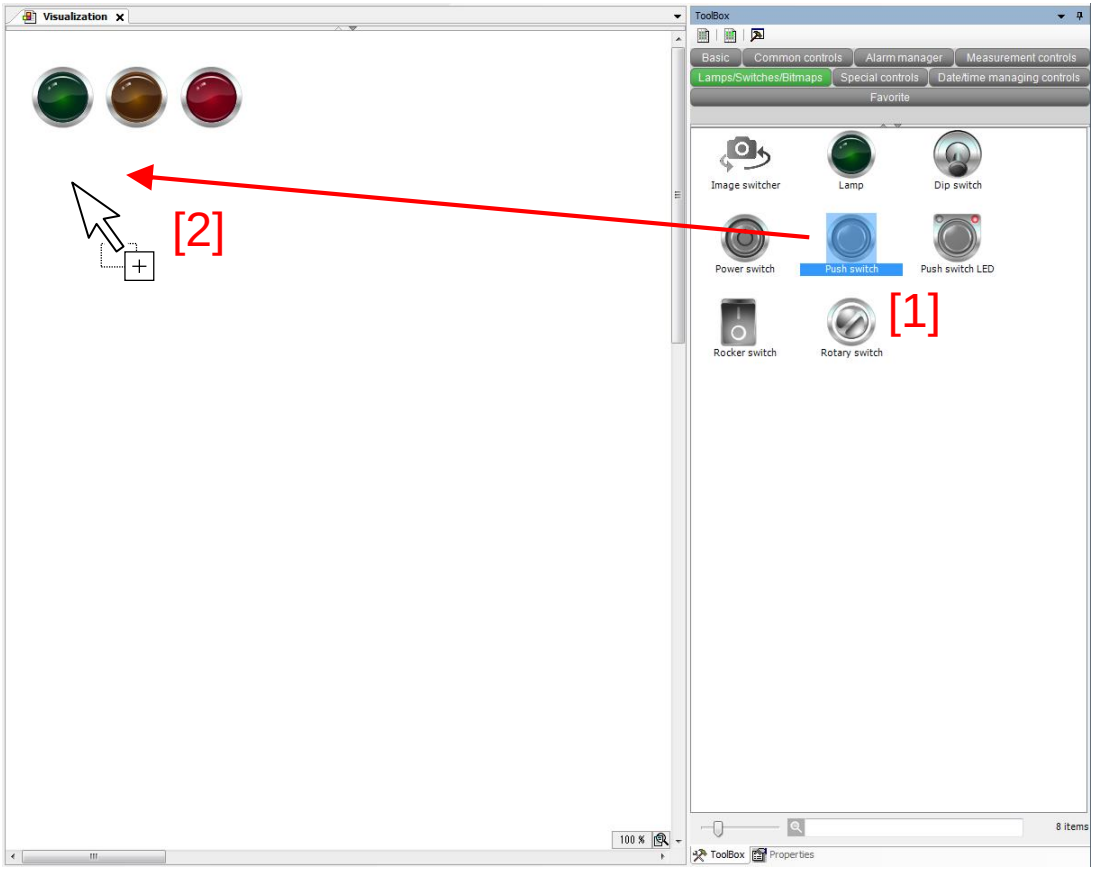


[1] Select the element (lamp) from tool box.

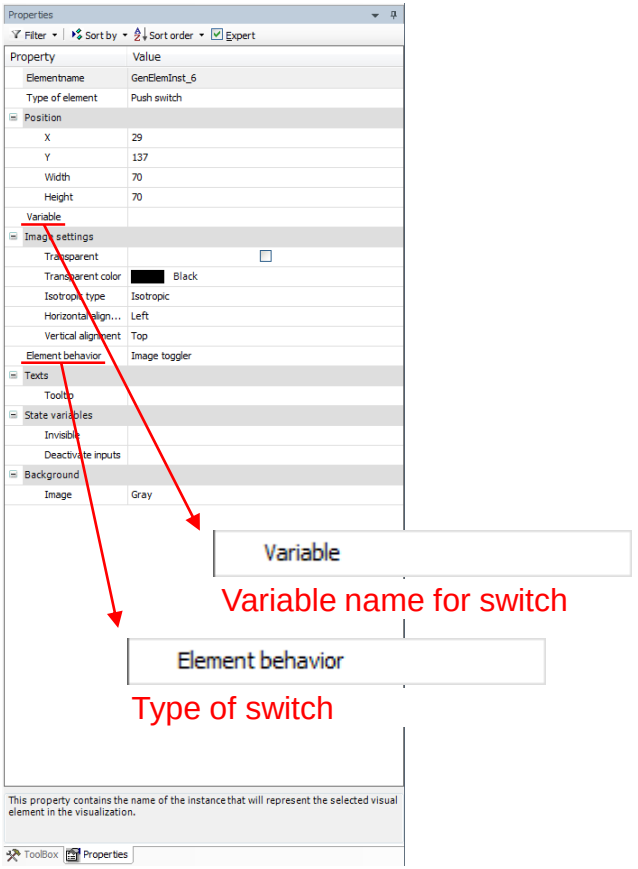
[2] Drag and drop this element to the editor portion.

[3] Set the parameters of element in the property list.

Procedure to draw a switch



[3]

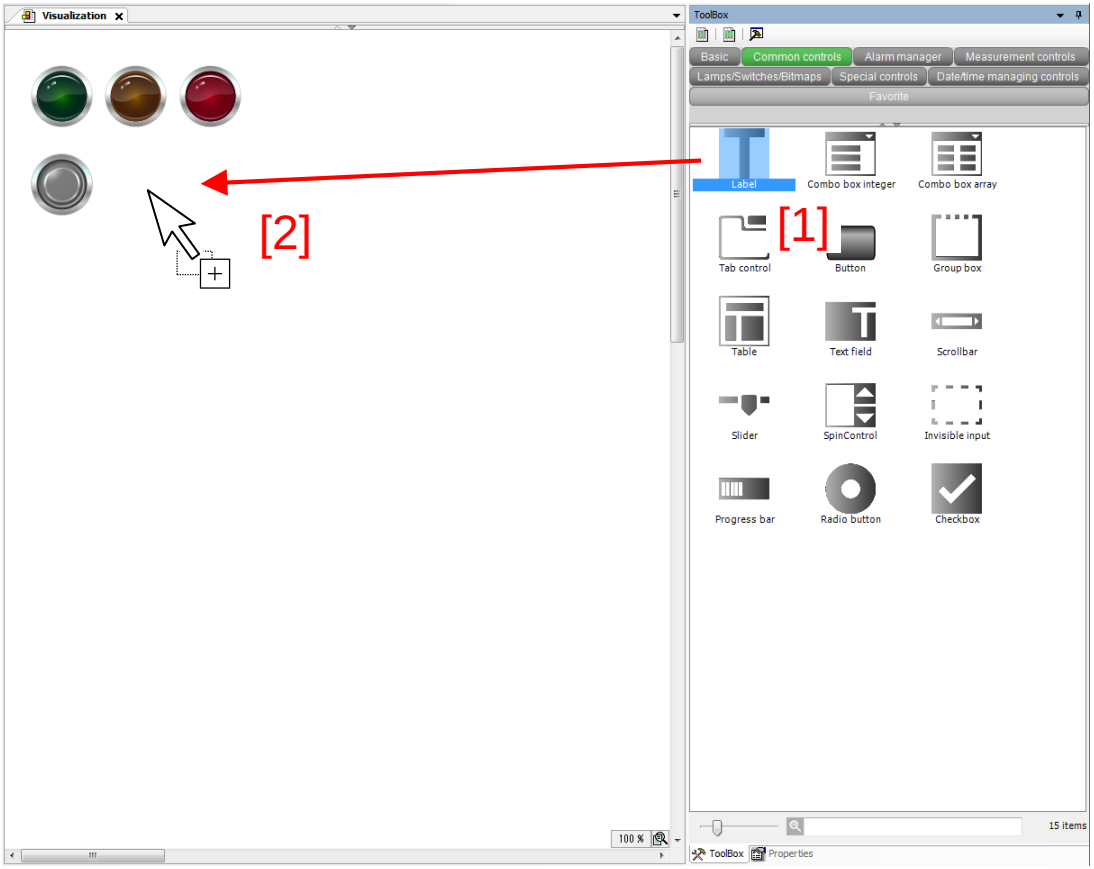


[1] Select the element (switch) from tool box.

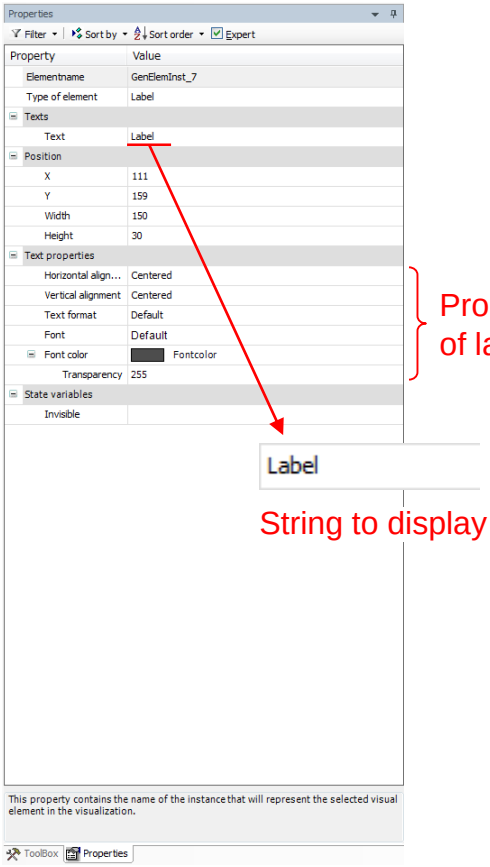
[2] Drag and drop this element to the editor portion.

[3] Set the parameters of element in the property list.

Procedure to draw a text



[3]



Property of label

Label

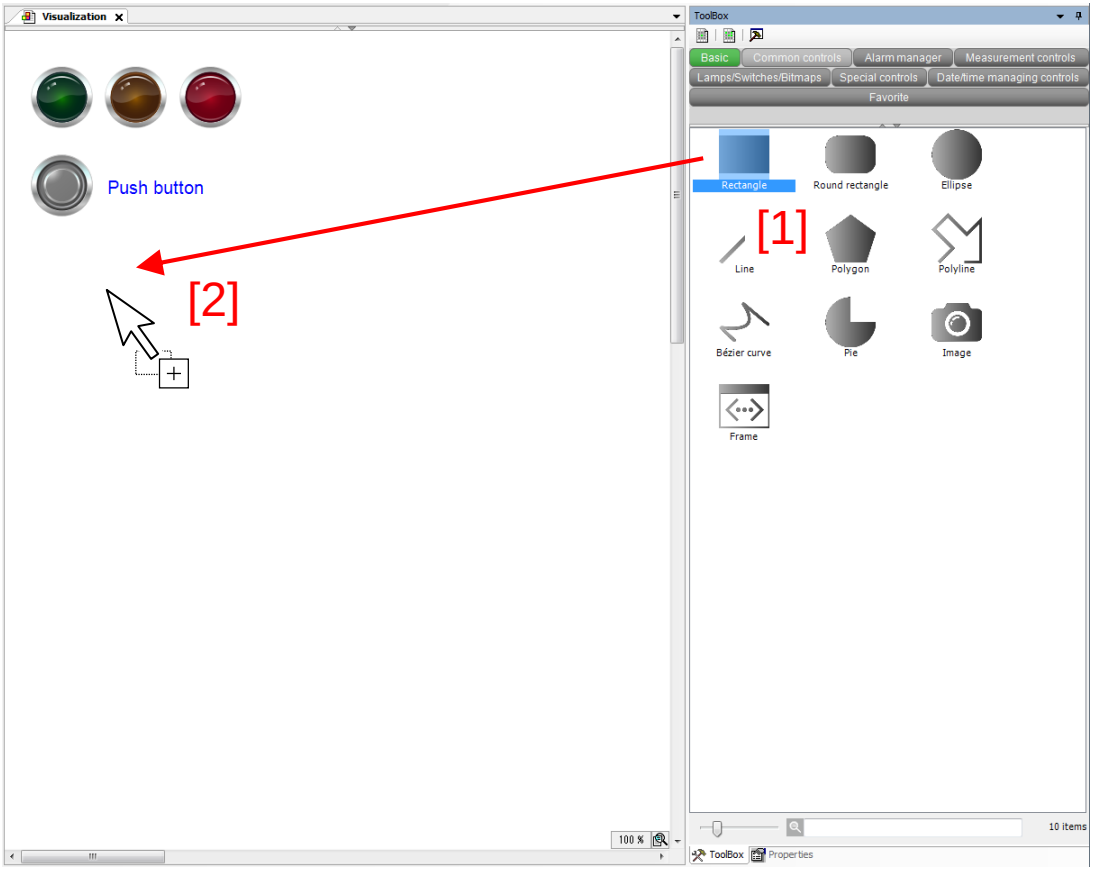
String to display

[1] Select the element (label) from tool box.

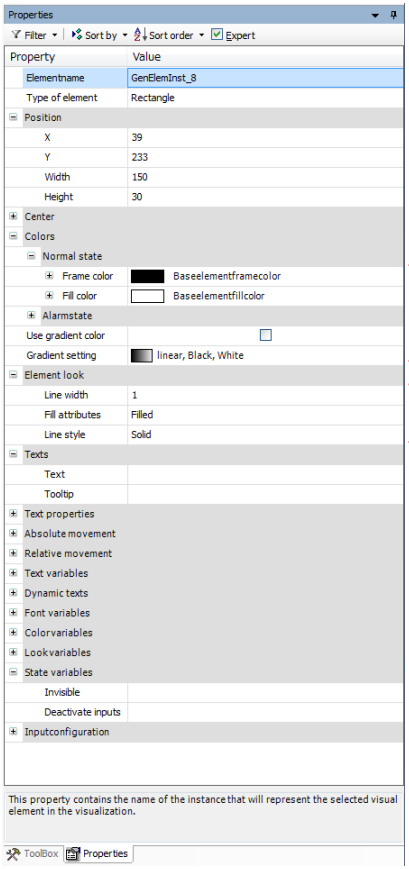
[2] Drag and drop this element to the editor portion.

[3] Set the parameters of element in the property list.

Procedure to draw a figure



[3]



Color of rectangle

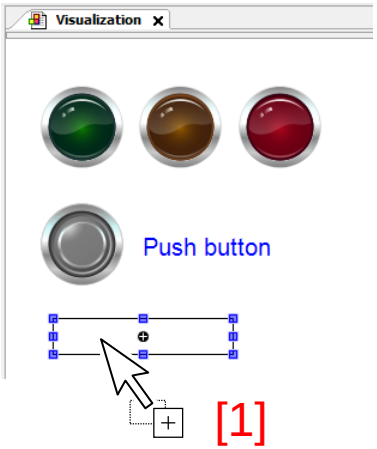
Frame of rectangle

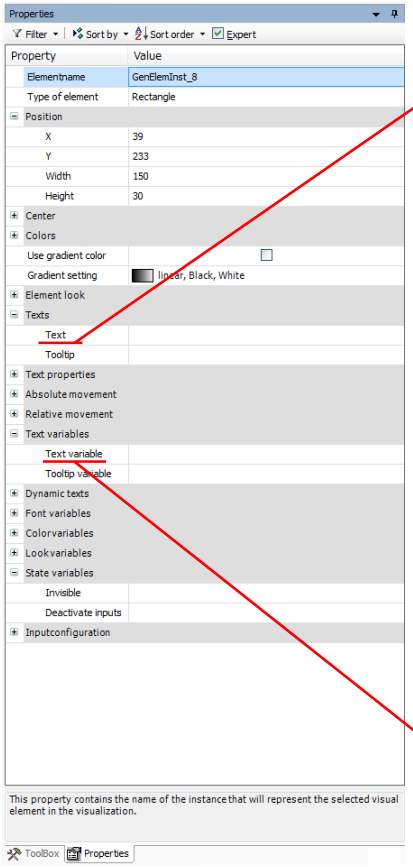
[1] Select the element (rectangle) from tool box.

[2] Drag and drop this element to the editor portion.

[3] Set the parameters of element in the property list.

Procedure to display the value of variable name in the figure





[2]

Argument specifiers

Specifier	Mean
%u	Decimal without sign
%d	Decimal with sign
%x	Hexadecimal
%s	String
%f	Real *

* In case of real, it is possible to specify the number of display digits before and after the decimal point.
Example) %2.1f … 12.3 %1.3f … 1.234

[3]

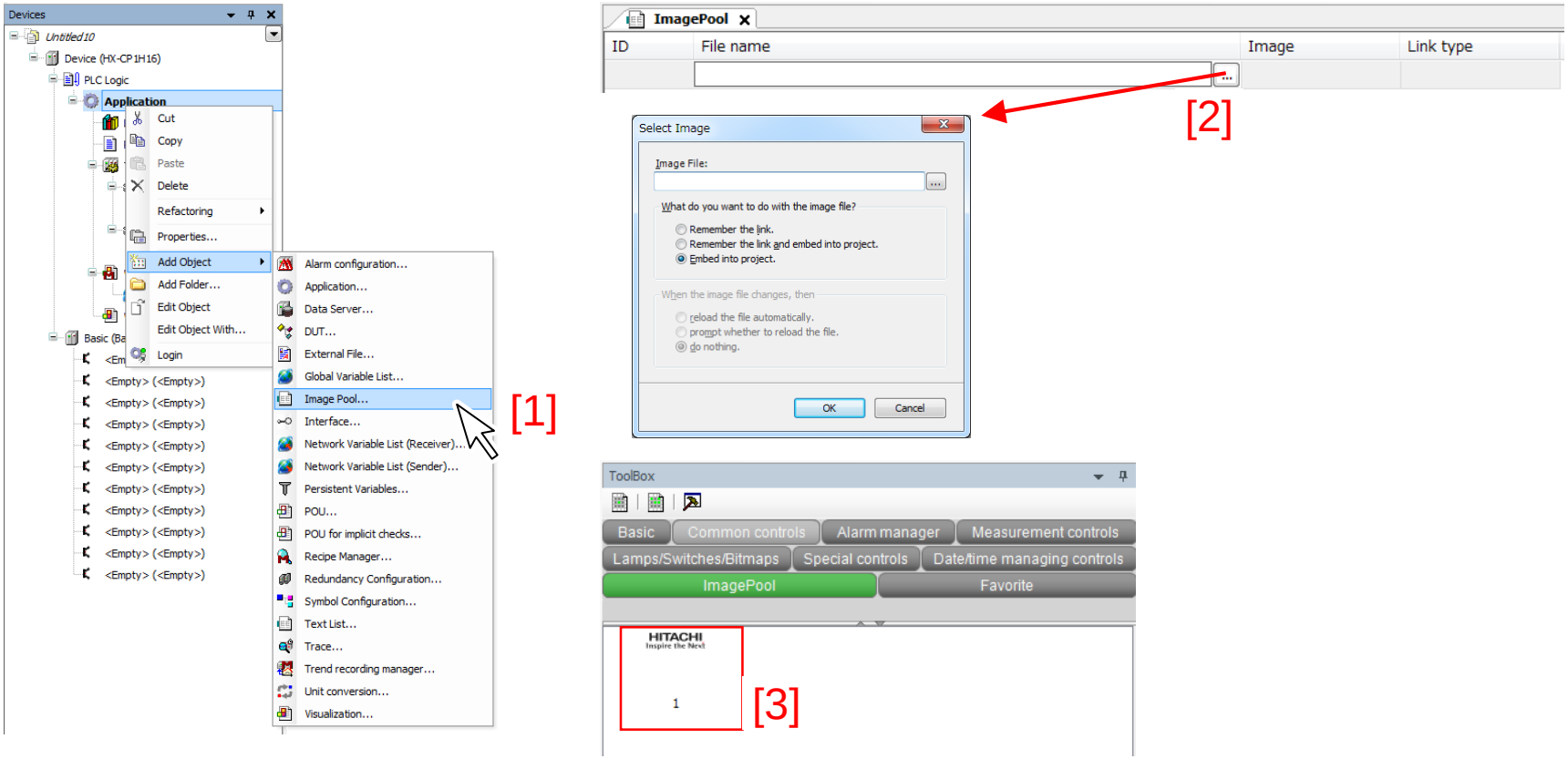
Variable name

[1] Select the element (Rectangle).

[2] Set argument specifiers for variable name.

[3] Set variable name to display in the element.

Procedure to draw an image file

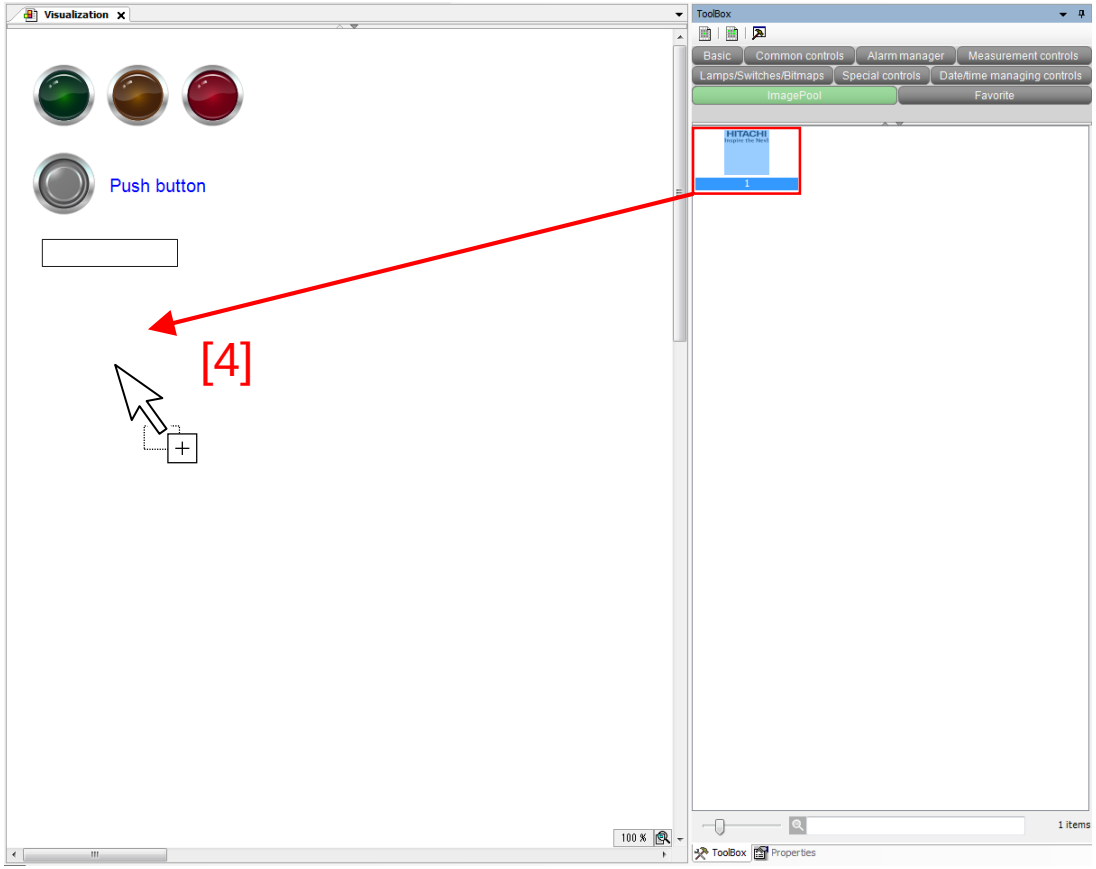


[1] Select “Image Pool” from “Add object” on submenu.

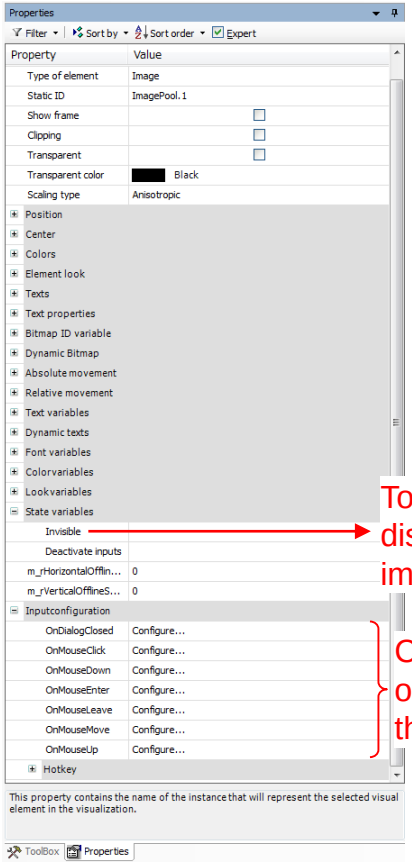
[2] Register the image file.

[3] Registered image file displays in Image Pool in tool box.

Procedure to draw an image file



[5]



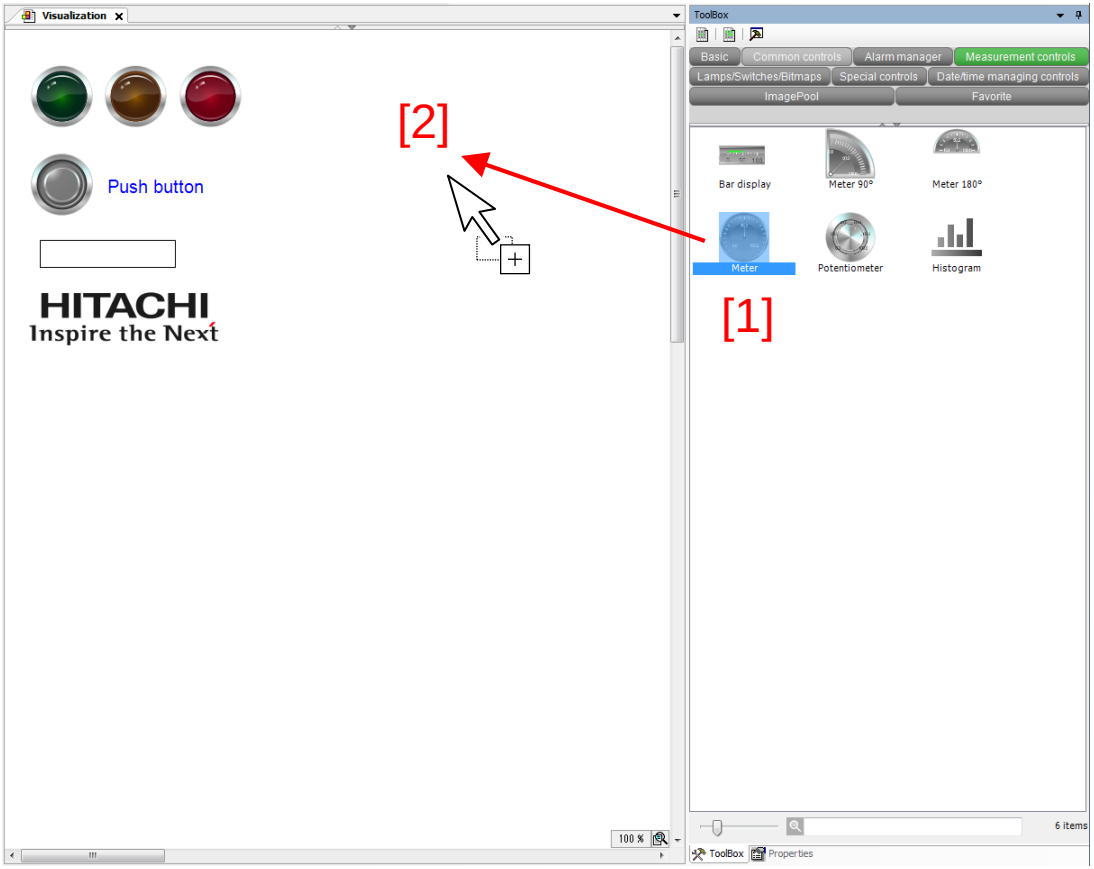
Toggle between displaying and hiding images

Configure the operation against the mouse action

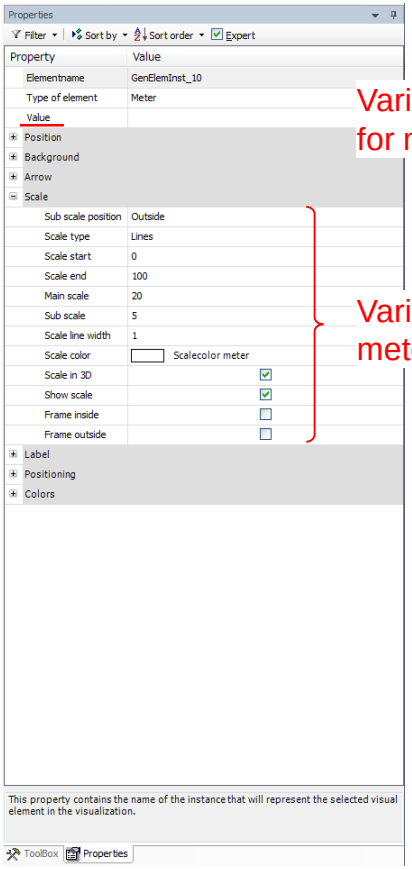
[4] Drag and drop this element (Image file) to the editor portion.

[5] Set the parameters of element in the property list.

Procedure to draw an analog meter



[3]



Variable name for meter

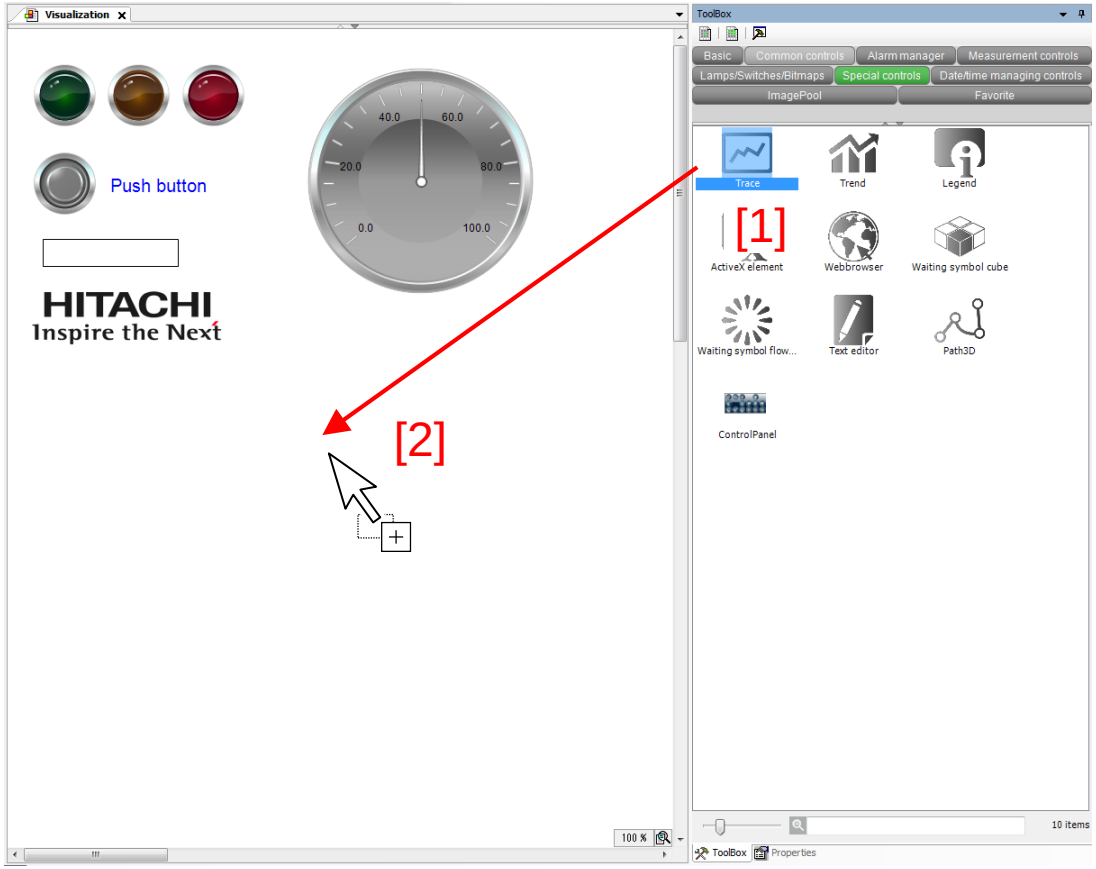
Various settings for meter

[1] Select the element (meter) from tool box.

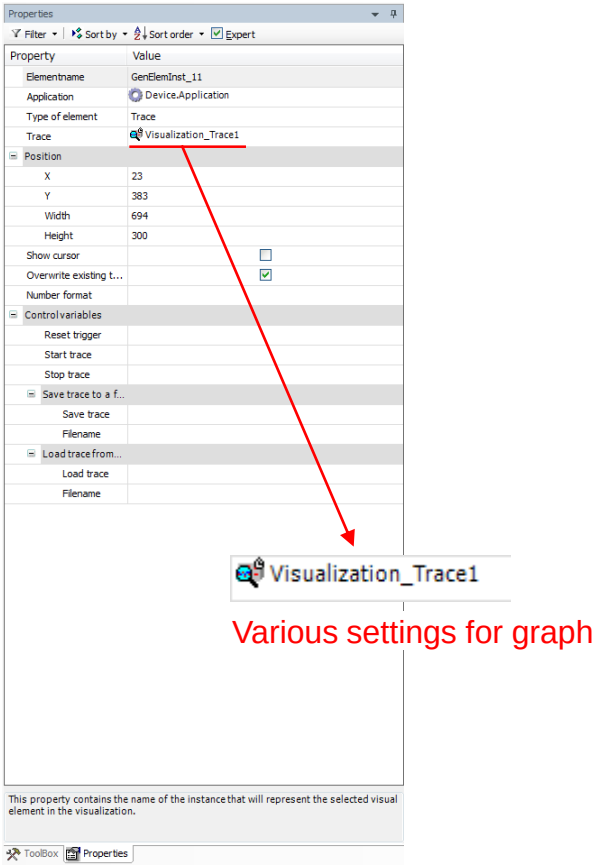
[2] Drag and drop this element to the editor portion.

[3] Set the parameters of element in the property list.

Procedure to draw a graph (trace)



[3]

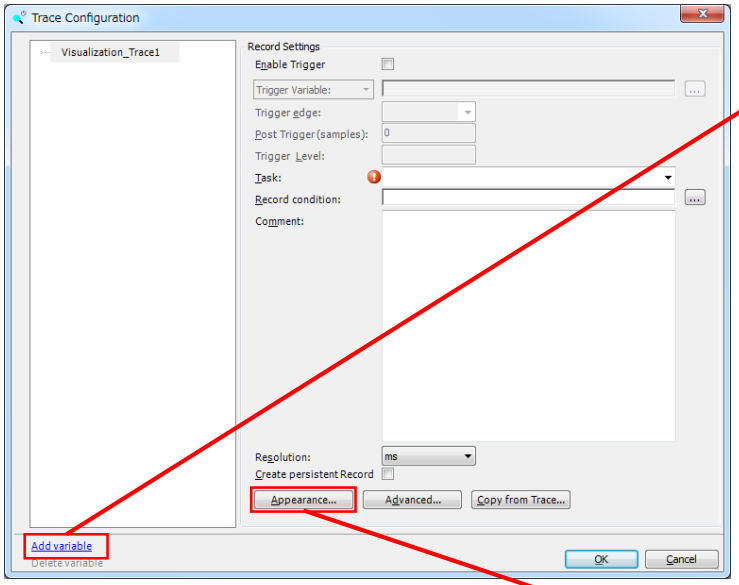


[1] Select the element (trace) from tool box.

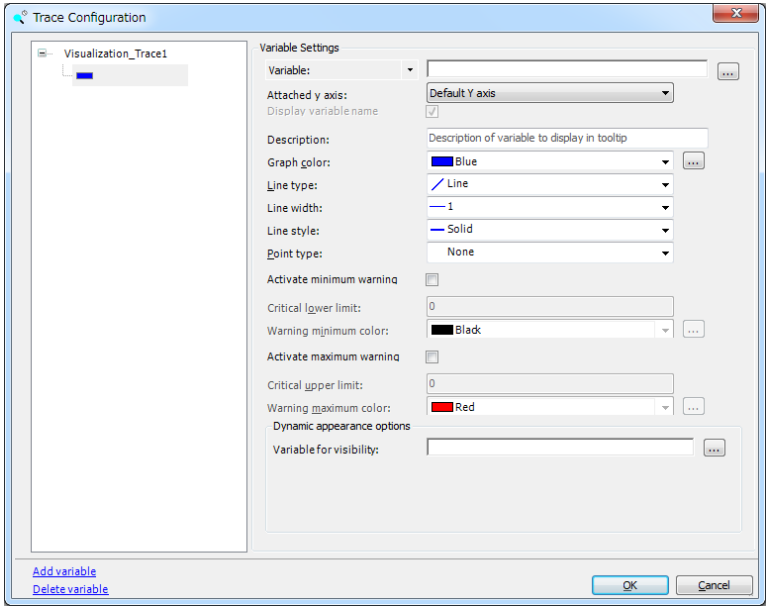
[2] Drag and drop this element to the editor portion.

[3] Set the parameters of element in the property list.

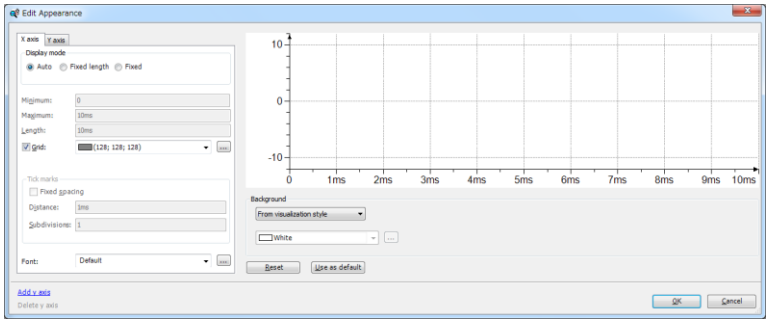
Procedure to draw a graph (trace)



[4]



[5]



[4] Add the variable name, and select the color of graph.

[5] Set the range of X-axis and Y axis, etc.

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