

eWON Application User Guide

AUG 007/ Rev 1.1



You Select, We Connect

viewON 2 - Graphical Components How To



Content

This guide will explain in a few steps how to use the graphical components proposed by viewON 2.

1. Hardware and software requirements.....	3
Hardware requirements.....	3
Software requirements.....	3
eWON Firmware Version.....	3
2. Graphical Component.....	4
Button.....	6
Check Box.....	11
Toggle Button.....	13
Combo Box.....	16
Combo box using the Send Command action.....	17
Combo box using the Send Measure action.....	18
Combo box using the Load View action	19
List.....	20
List using the Send Command action.....	21
List using the Send Measure action.....	22
List using the Load View action.....	23
.....	23
Number Editor.....	25
Slider.....	28
Alarm Summary.....	30
Alarm History.....	33
Menu Bar.....	36
Trends	40
Real time trend.....	40
Historical trend.....	45
Revisions.....	47

Hardware and software requirements

Hardware requirements

In order to follow this guide you will need:

- 1 eWON with viewON capabilities (for example : eWON 4001, eWON 4101, eWON 4005, etc.)

Software requirements

eWON configuration software:

The eWON is configured through its web server. So all you need is a standard Web Browser software like Internet Explorerⁱ or Firefoxⁱⁱ.

Additionally we suggest you to download the eBuddy software on our website : <http://support.ewon.biz>.

This utility shows you the list of all the eWONs on your network and allows to change the default IP address of an eWON to match your LAN IP address range. With eBuddy you can also easily upgrade the firmware of your eWON (if required).

Other programming software:

viewON 2 Software.

eWON Firmware Version

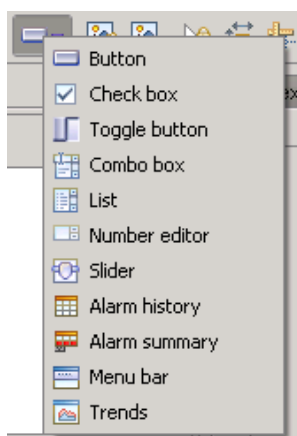
To be able to follow this guide your eWON needs a firmware version 5.4 or higher. A simple way to upgrade the eWON firmware, is to use eBuddy, the eWON software companion.

Graphical Component

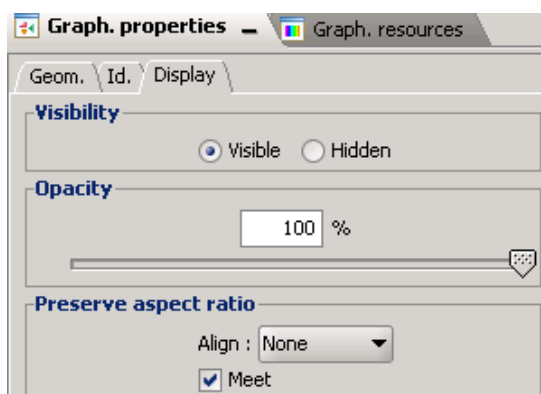
In the viewON interface, you can create a **Graphical Component** instead of drawing an object yourself.



There are 11 graphical components :

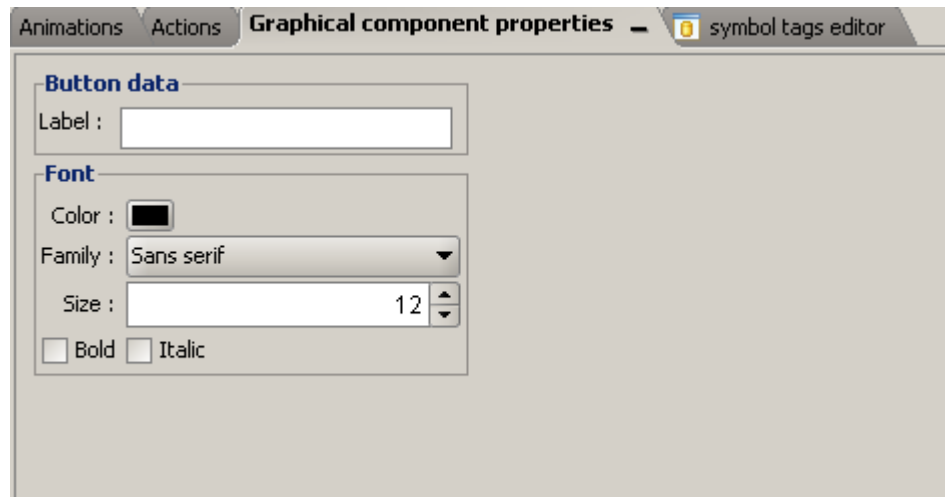


In opposition to the objects that you create yourself, the **Graphical Components** cannot be completely customized. You will not be able to customize a graphical component like any other object. As a result, the **Graph properties** are used to modify only a few aspects of your object. As you can see in the following picture only the *Geometry* (the position of the object), the *ID* and the *Display* (the opacity of the object) tabs are available for a graphical component. **The Graph resources** are useless as no gradient can be added to a graphical component.



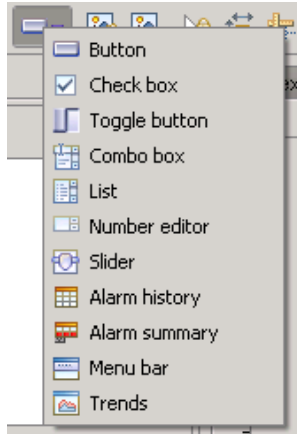
We will see later that some aspects are configurable in the **Graphical Component properties** section.

2. Graphical Component



Button

The Button allows you to send a value to your Tag. Select **Button**, the context box will close.

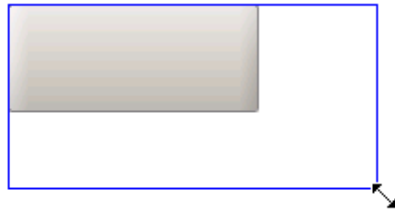


With the mouse, click on your View and do a click and drag movement to make the **Button** appear.

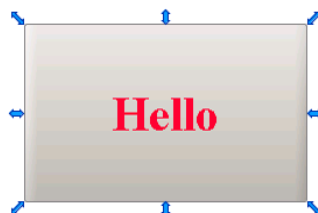
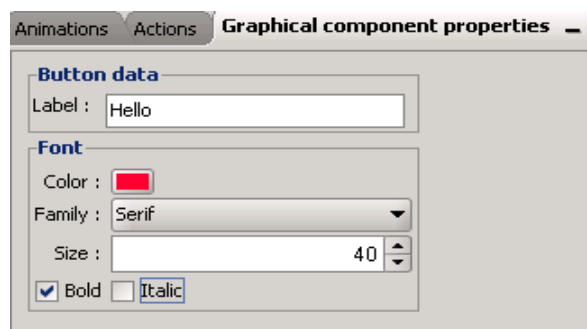


Of course you can magnify the **Button** afterwards or decrease it in size either with the mouse or in the **Graph properties**.

2. Graphical Component

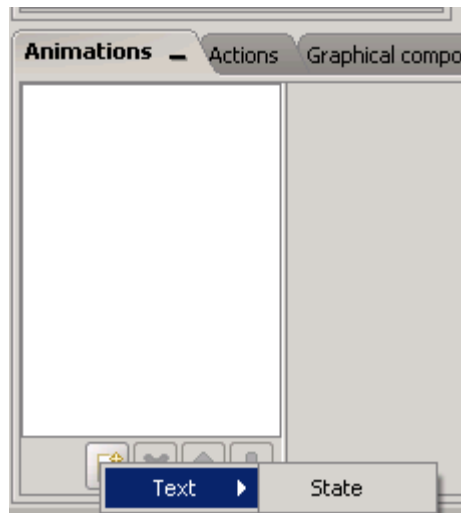


In the **Graphical Component properties** section (in the third part of the screen), in **Button data/Label** field you will be able to add a text on your object. For example “Hello”. It is possible to change the font color, the font size, etc.





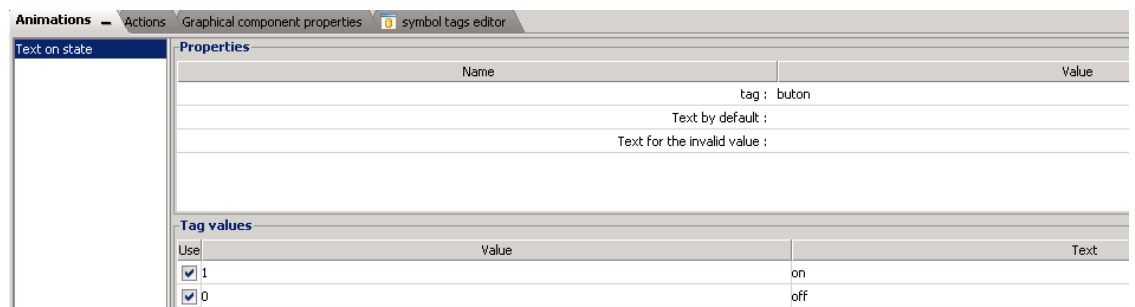
Instead of a fixed text, you can use a **Text on State**. In the **Animations** context, select **Text on State**.

2. Graphical Component



In the **Properties** section, choose the Tag that you want to link to the object (Boolean Tags). In the **Tag values** field, choose a text that you want to see each time the value of the Tag is 1 and a text you want to see when the value of the Tag is 0.

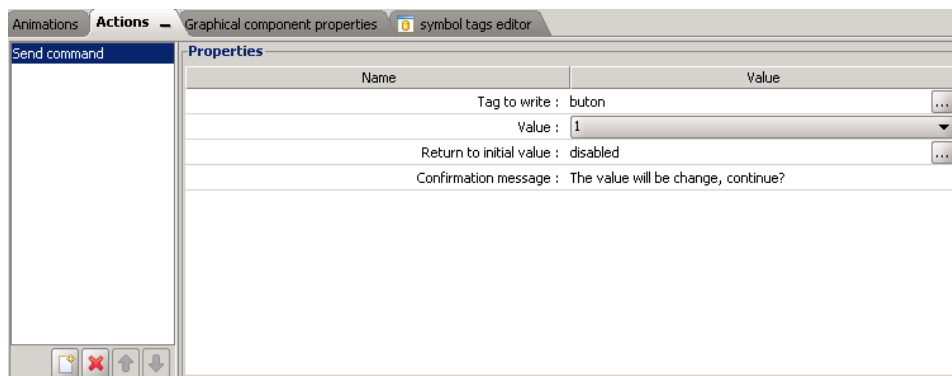
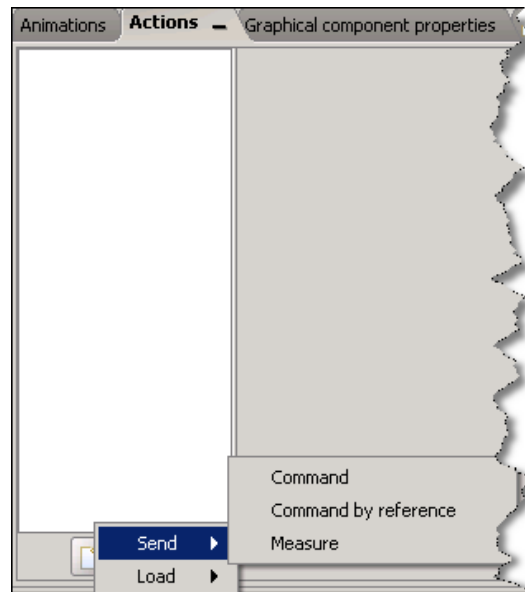
ex: value 1  text : on
value 0  text : off



In this case each time the value of the tag is 1, “on” will appear on your object and when the value is 0, then “off” replaces the other text.

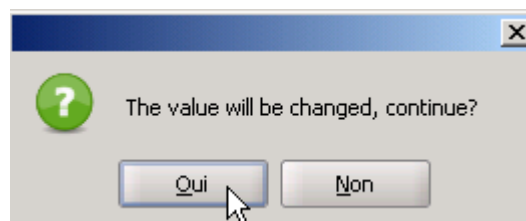
If you want to be able to click on your **Button**, you will have to add an action on your graphical component. Let us choose a **Send Command** action.

2. Graphical Component



Choose a Tag to write (Boolean Tags), then a value when the **Button** is selected. Finally type a confirmation message, if needed (this message will appear each time you click on the **Button**, asking a confirmation). When you click on your **Button**, the value 1 will be sent to the Tag linked to the **Send Command** action. Be aware that the **Return to initial value** is not handled by the eWON and must remain disabled.

Hereunder an example of a confirmation message:



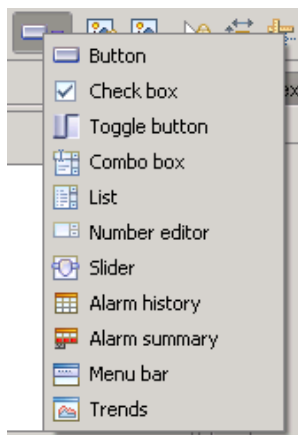
If you do not want a confirmation message to pop up, do not write anything in the **Confirmation Message** field.

2. Graphical Component

For further information on how to use an **Animation** or an **Action**, please refer to the **AUG-006-0-EN** (<http://support.ewon.biz/viewon.html>)

Check Box

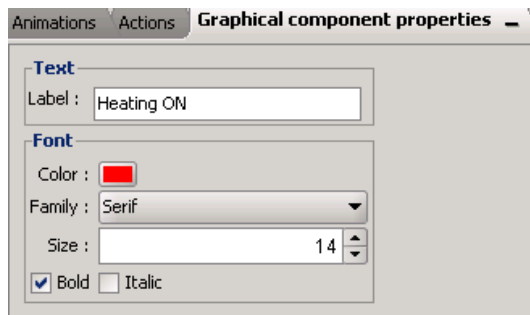
With the **Check box**, you will be able to draw a check box in the easiest way. The process is the same as the **Button** one. Select **Check Box**, the context box will close.



With the mouse, click on your View to make the **Check Box** appear.



In the **Graphical Component properties** section (in the third part of the screen), in the **Text/Label** field, you will be able to add a text next to your object.

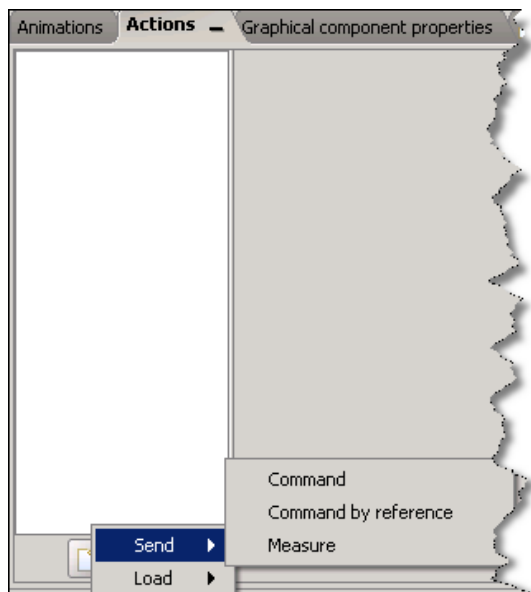


For example "Heating ON". It is possible to change the font color, the size, etc.

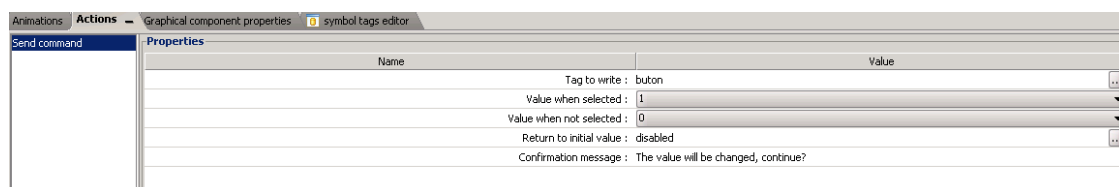


For the **Check Box** to work, you will have to add an action to your object: an **Action command** (only the **Send Command** action is possible).

2. Graphical Component

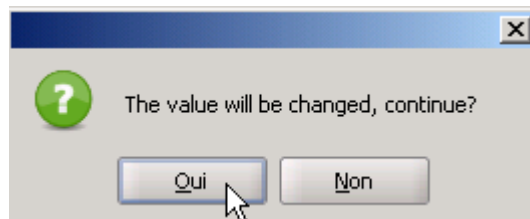


Let us see how to add an action on your **Check box**. Be aware that only the **Send Command** action is available.



Choose a Tag to write, then a value when the **Check box** is selected and a value when it is not selected. In our example, when selected, the value 1 is sent to the Tag. On the other hand, when the Check box is not selected, the value 0 is sent to the same Tag. Finally type a confirmation message, if needed (this message will appear each time you click on the **Check Box**, asking a confirmation).

Hereunder an example of a confirmation message:

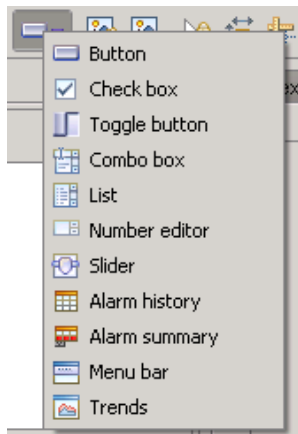


If you do not want a confirmation message to pop up, do not write anything in the **Confirmation Message** field.

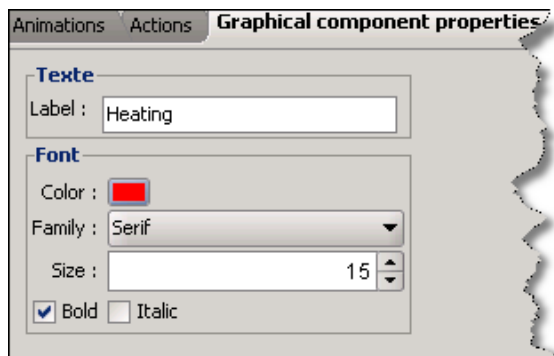
For further information on how to use an **Animation** or an **Action**, please refer to the **AUG-006-0-EN** pdf file (<http://support.ewon.biz/viewon.html>)

Toggle Button

The Toggle button allows you to send a value to your Tag. Select **Toggle button**, the context box will close.



With the mouse, click on your View to make the **Toggle Button** appear. Just like the **Button**, you will be able to add a text on this object. Be aware that for the graphical components, the **Graph resources** do not work as you cannot change the color of the object. In the **Graphical Component properties** section (in the third part of the screen), in the **Text/Label** field, you can add a text on your object.



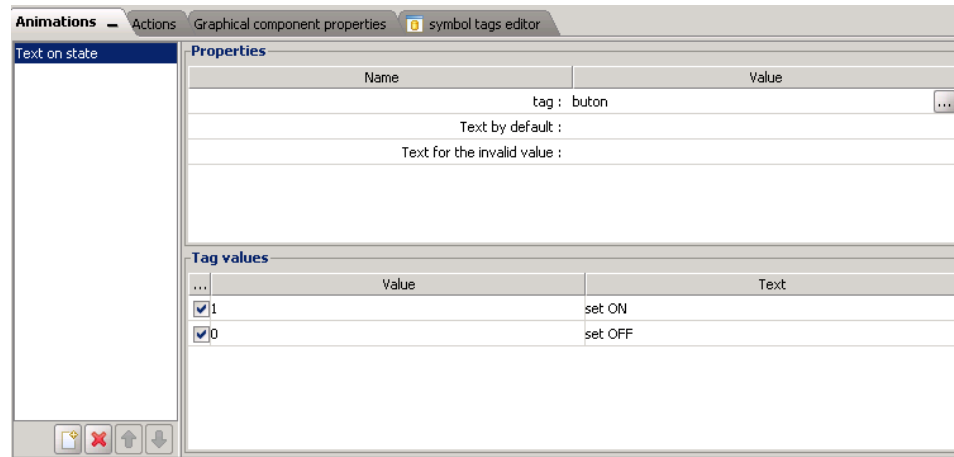
For example “Heating”. It is possible to change the font color, the size, etc.



2. Graphical Component

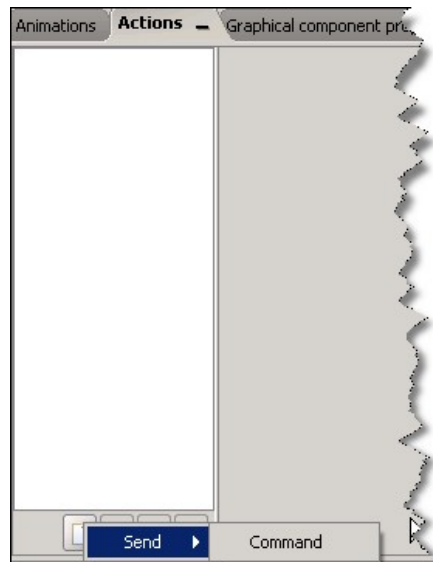
As for most of the graphical components, you can only apply a **Send Command** action and a **Text on State** animation.

In the **Animations** context, select **Text on State** and choose the Tag (only a Boolean one) you want to link to the object in the **Properties** section.



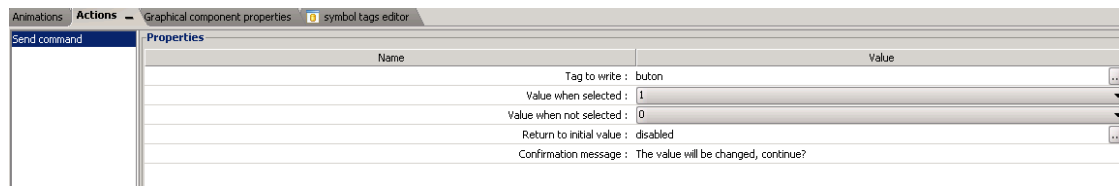
In this case, you click on the **Toggle Button**, “set on” will appear instead of “Heating” and “set off” will appear when you click again.

Let us see how to add an action on your **Toggle Button**. Be aware that only the **Send Command** action is available.



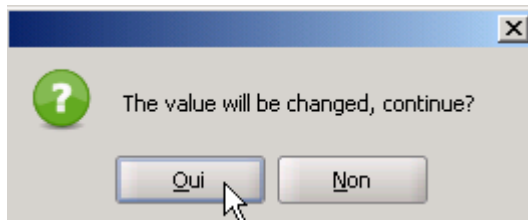
2. Graphical Component

As you can see in the following picture, the procedure is the same as for a **Check Box**.



Choose a Tag to write, then a value when the **Toggle button** is selected and a value when it is not selected. Finally type a confirmation message, if needed (this message will appear each time you click on the **Toggle button**, asking a confirmation).

Hereunder an example of a confirmation message:

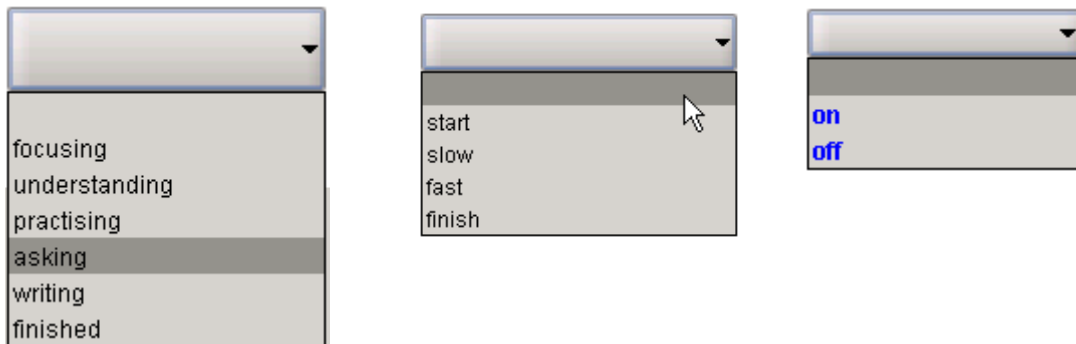


If you do not want a confirmation message to pop up, do not write anything in the **Confirmation Message** field.

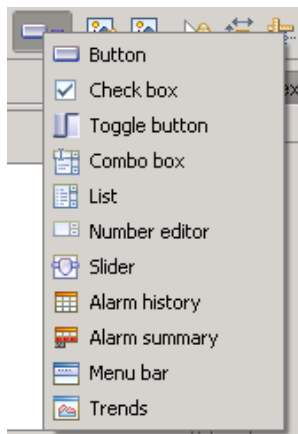
For further information on how to use an Animation or an Action, please refer to the **AUG-006-0-EN** pdf file (<http://support.ewon.biz/viewon.html>)

Combo Box

The **Combo box** gives you the opportunity to create a kind of menu. By using this Combo box, you will be able to see the different Views that you have created or send a predefined values to a Tag.



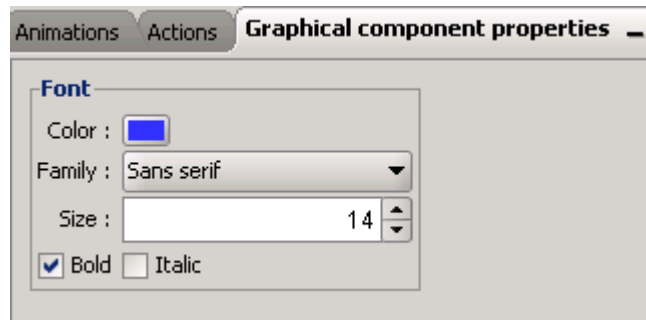
Select **Combo box**, the context box will close.



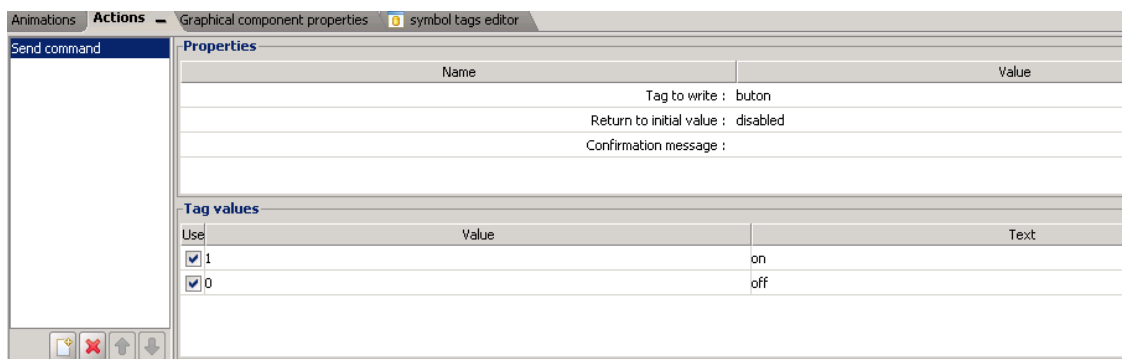
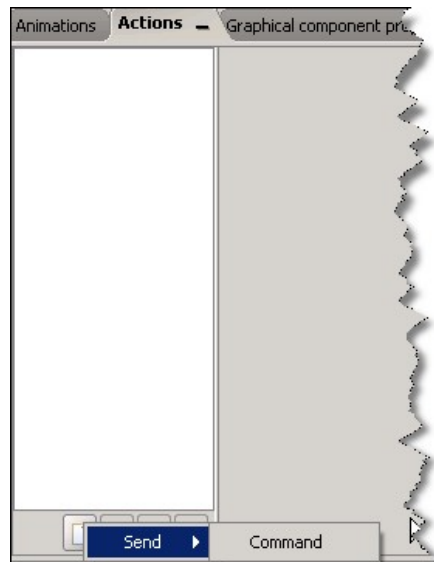
With the mouse, click on your View to make the **Combo box** appear. For this graphical component, you do not have the possibility to add any animation. Only actions are available (**Load view**, **Send Command** and **Send Measure**). Unlike the other graphical components, you will not be able to write a text directly on your **Combo box**. The text will be added through the action that you will link to the object.

2. Graphical Component

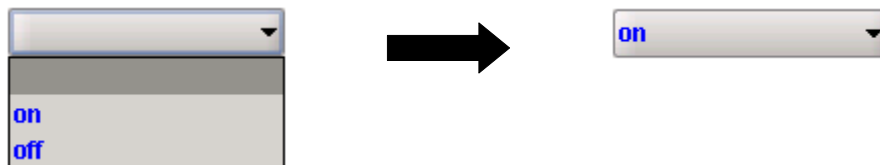
You can change the font color, the size etc. of the default text “Items” in the **Graphical Component properties** section.



Combo box using the Send Command action

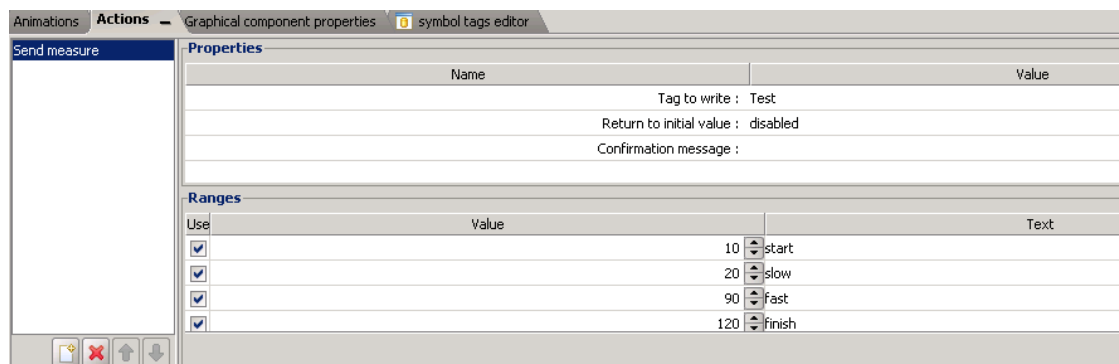


In this case, the **Combo box** will look like this:



This action allows to set a state of a Tag. So if you select “on”, the value 1 will be sent to the Tag linked to the **Combo box**. If you click on “off”, the value 0 will be sent to the Tag. If you write a **Confirmation message** in the provided field, then, a pop-up window will open to ask a confirmation before changing the status. Be aware that the **Return to initial value** field must remain disabled.

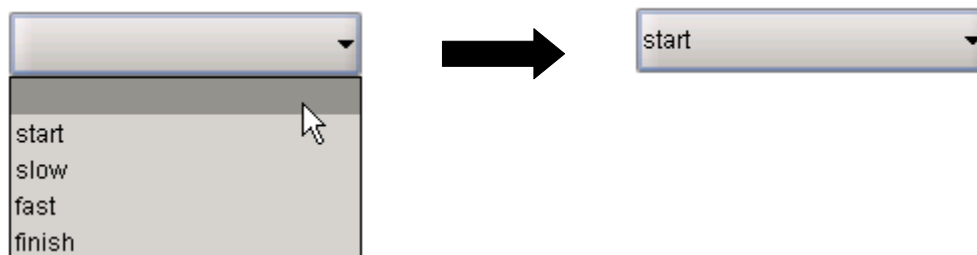
Combo box using the Send Measure action



This action will allow to set a value of a Tag. Only analog Tags are taken into account for the **Send Measure** action. The **Return to initial value** is not used by the eWON, so it must remain disabled. As for the other actions for graphical components, you can insert a **Confirmation message**. Finally, define the values to send to the linked Tag. To do so, click on the button on the right bottom corner of the screen.



Your **Combo box** will look like this:

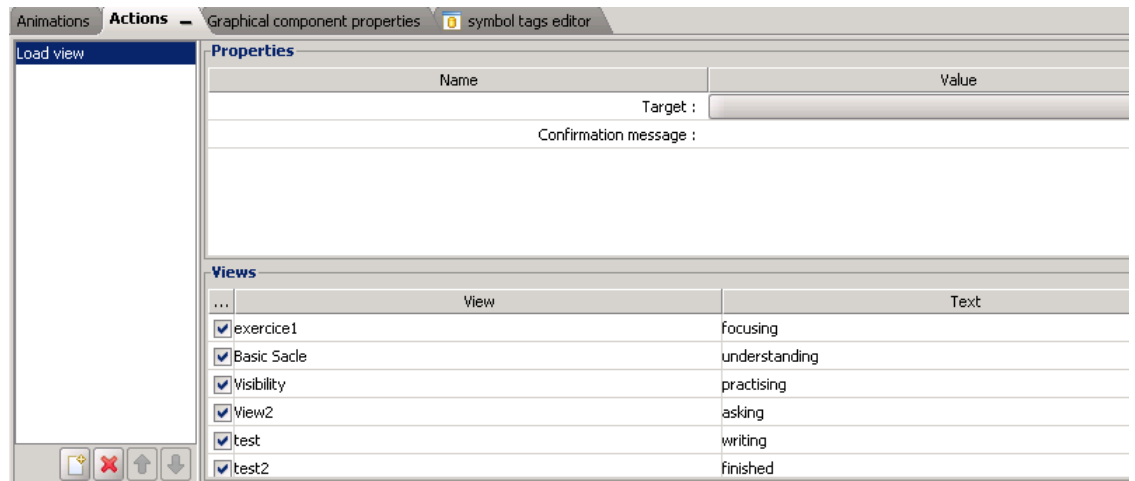


2. Graphical Component

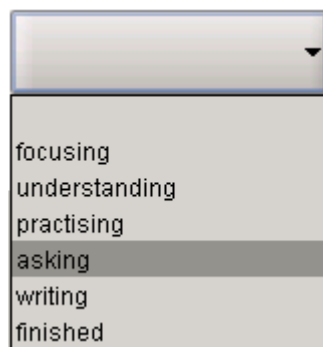
So if you click on “start”, the value 10 will be sent to the linked Tag, when you click on “slow”, the value 20 will be sent to the Tag and so on.

Combo box using the Load View action

Thanks to this action, you will be able to link your Views to your **Combo box**. Under the **Properties** section (in **Actions/Load View**) you will see all the **Views** of your project. All you have to do is check the Views you would like to add to the combo box. In the **Text** section, you can name your Views.



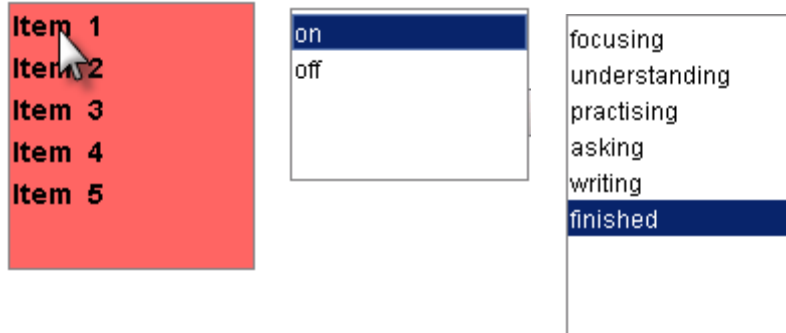
Thanks to the **Load View** action, you will be able to see your Views by clicking on each of them:



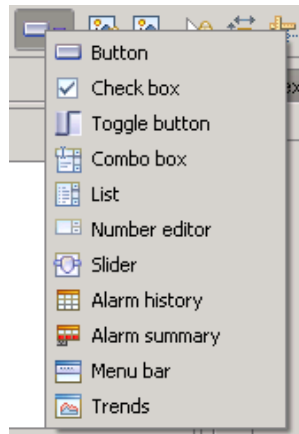
So, if you click on “focusing” for example, the View (exercice1) linked to it will open. Be aware that when you choose a View, your current view will be replaced by the new one.

List

The **List** is very similar to the **Combo box**. It gives you the opportunity to create a kind of menu that will allow you to see by a click the different views you have created or send predefined values to the Tag.

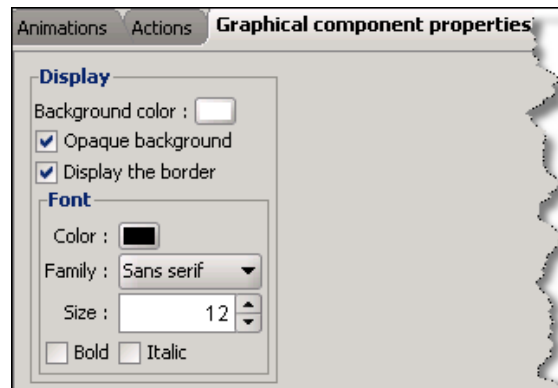


Select **List**, the context box will close.

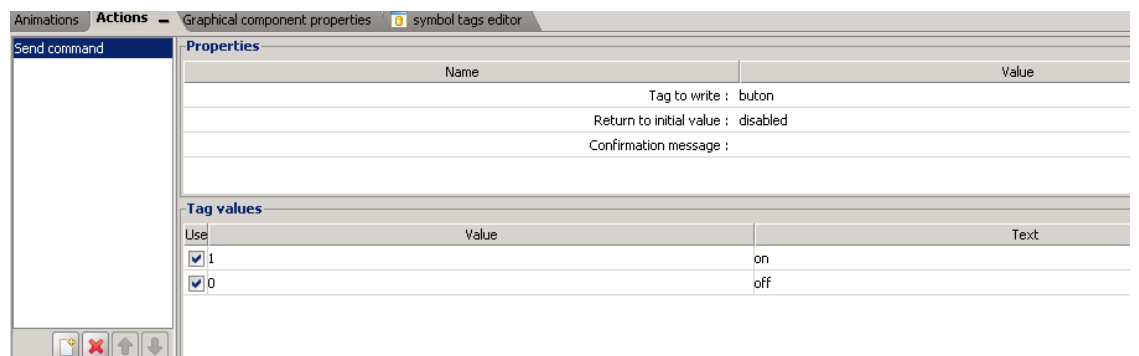
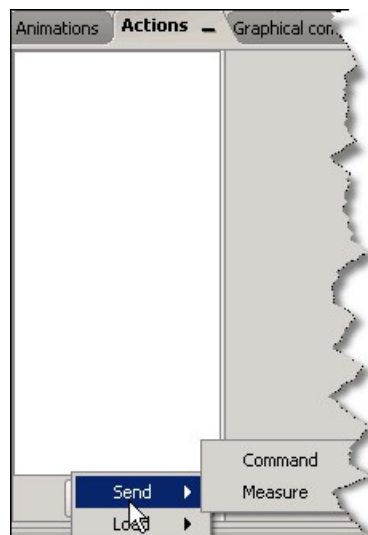


With the mouse, click on your View to make the **List** appear. For this graphical component, you do not have the possibility to add any animation. Only actions are available (**Load view**, **Send Command** and **Send Measure**) In the **Graphical Component properties** section, you will be able to customize your **List** : choose the background color, the opacity, the font, the color of the text, etc.

2. Graphical Component

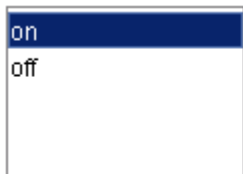


List using the Send Command action



According to the above example, if you select “on”, the value 1 will be sent to the Tag linked to the **List**. If you click on “off”, the value 0 will be sent to the Tag. If you write a **Confirmation message** in the provided field, then, a pop-up window will open to ask a confirmation before changing the status. Be aware that the **Return to initial value** field must remain disabled.

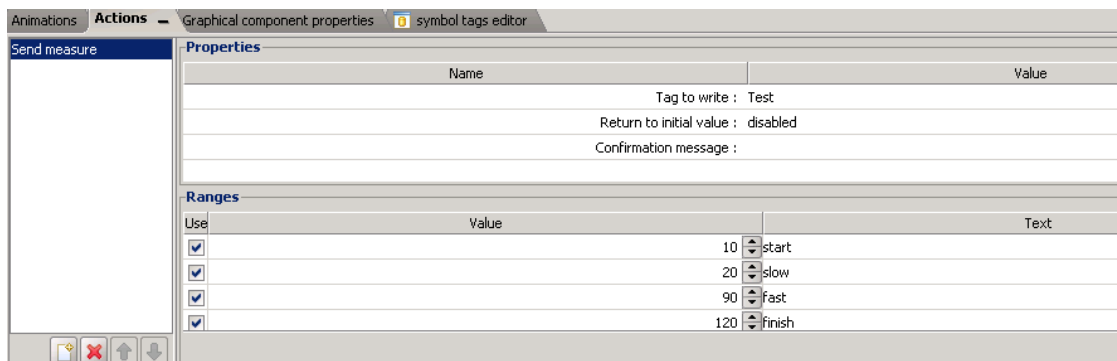
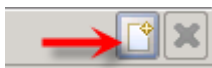
Your **List** will look like this:



So, when “on” is selected the value 1 is sent to the Tag and when “off” is selected, the value 0 is sent to the Tag.

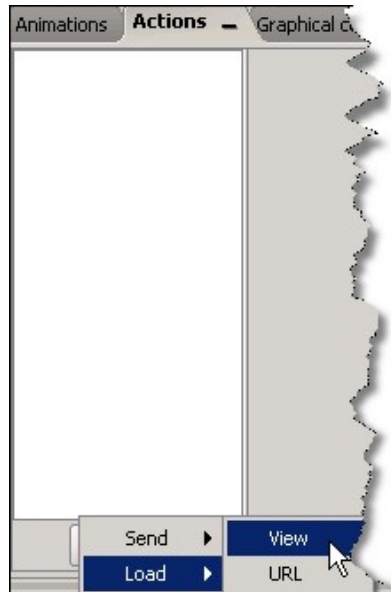
List using the Send Measure action

Only analog Tags are taken into account for the **Send Measure** action. The **Return to initial value** is not used by the eWON, so it must remain disabled. As for the other actions for graphical components, you can insert a confirmation message. Finally, define the values to send to the Tag. To do so, click on the button on the right bottom corner of the screen.



So if you click on “start”, the value 10 will be sent to the linked Tag, when you click on “slow”, the value 20 will be sent to the Tag and so on.

List using the Load View action

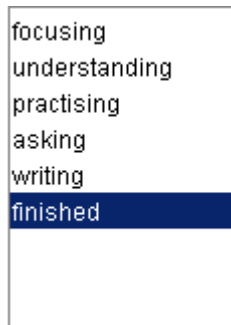


Thanks to this action, you will be able to link your Views to your **List**. Under the **Properties** section (in **Actions/Load View**) you will see all the **Views** of your project. All you have to do is check the Views you would like to add to the combo box. In the **Text** section, you can name your Views.

Views		
Use	View	Text
<input checked="" type="checkbox"/>	exercice1	focusing
<input checked="" type="checkbox"/>	Basic Sacle	understanding
<input checked="" type="checkbox"/>	Visibility	practising
<input checked="" type="checkbox"/>	View2	asking
<input checked="" type="checkbox"/>	test	writing
<input checked="" type="checkbox"/>	test2	finished

Thanks to the **Load View** action, you will be able to see your **Views** by clicking on them.

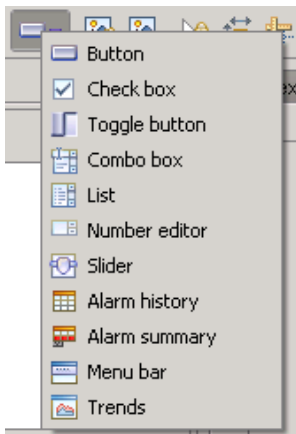
Your **List** will look like this:



So, if you click on “focusing”, the View (exercice1) linked to it will open and so on. Be aware that when you choose a View, your current view will be replaced by the new one.

Number Editor

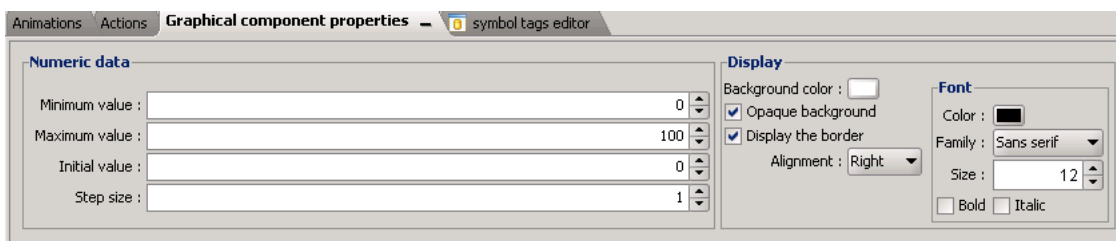
The **Number editor** allows you to send a value to a Tag, only by clicking on the little darts. Select **Number editor**, the context box will close.



With the mouse, click on your View to make the **Number editor** appear. For this graphical component, you do not have the possibility to add any animation.



In the **Graphical Component properties** section, you will have to choose a minimum value, a maximum value, an initial value and a step size (you will be able to choose the maths table you want to use (1,2,3,4,5,6,... / 2,4,6,8,10,.../3,6,9,12,18,...))



Once again, you can choose the background color, the text color, etc.

2. Graphical Component

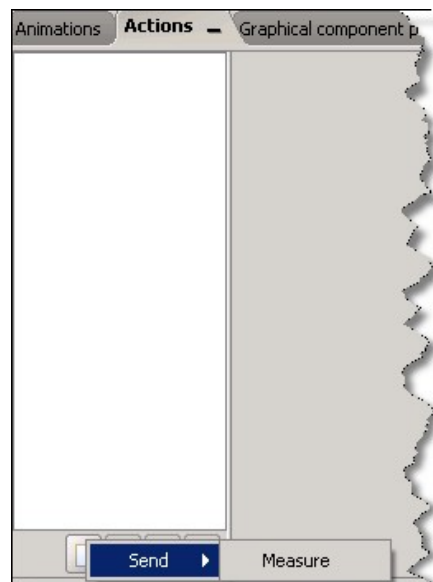
Here is an example of a customized **Number editor** :



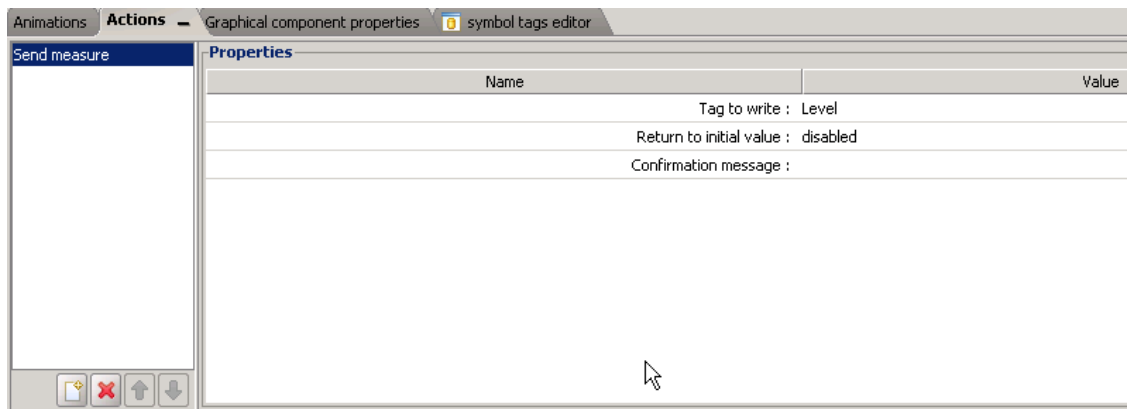
When you click on the upper dart, the value will increase by 1 if the **Step size** is 1 (55,56,57,58,...); by 2 if the Step size is 2 (2,4,6,8,10, etc.).



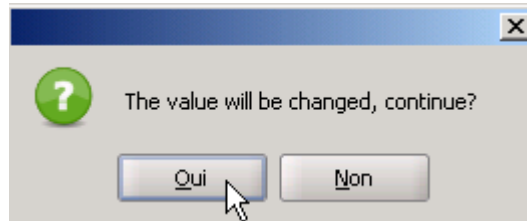
For the **Number editor** to work, do not forget to add the **Send measure** action. If not, you will not be able to click on the darts to send the value to the Tag.



Choose the Tag (only analog ones are taken into account) you want to link to your **Number editor** and insert a confirmation message if needed.



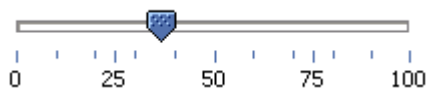
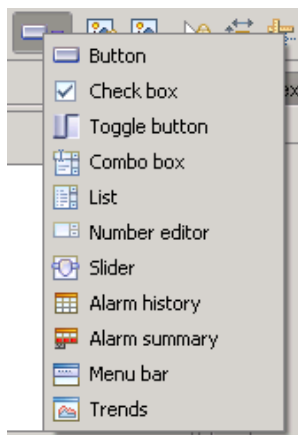
Hereunder an example of a confirmation message:



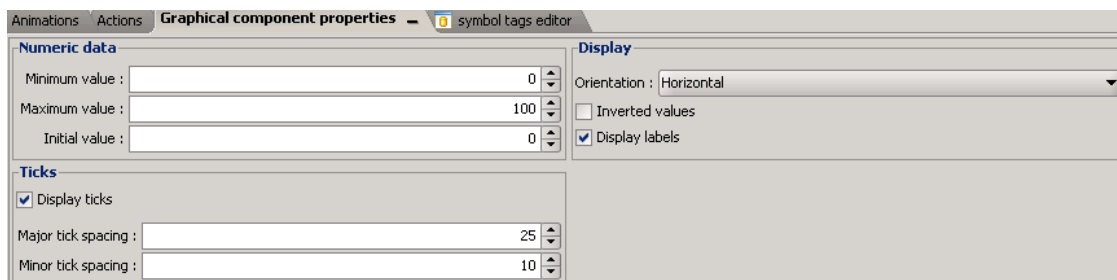
If you do not want a confirmation message to pop up, do not write anything in the **Confirmation Message** field. The **Return to initial value** is not used by the eWON, so it must remain disabled.

Slider

The **Slider** allows you to send a value to a Tag only by moving the cursor. Select the **Slider**, the combo box will close. With the mouse, click on your View to make the **Slider** appear. For this graphical component, you do not have the possibility to add any animation.

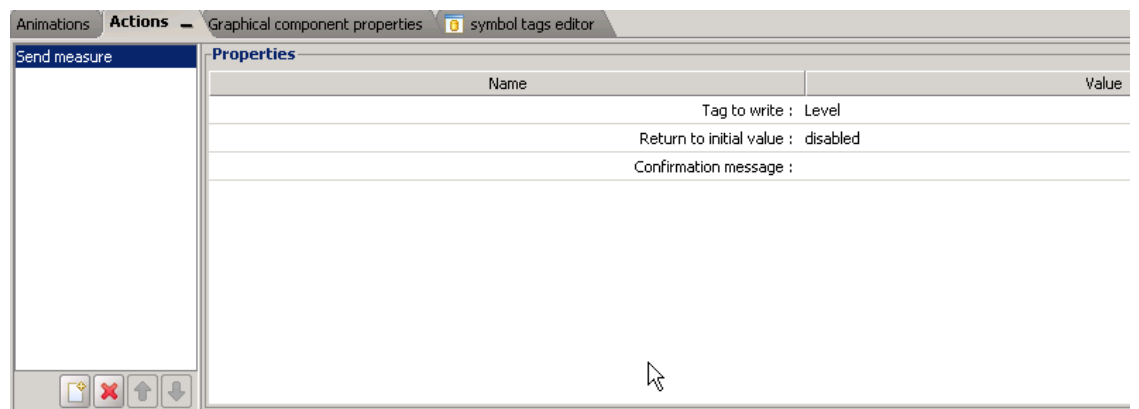
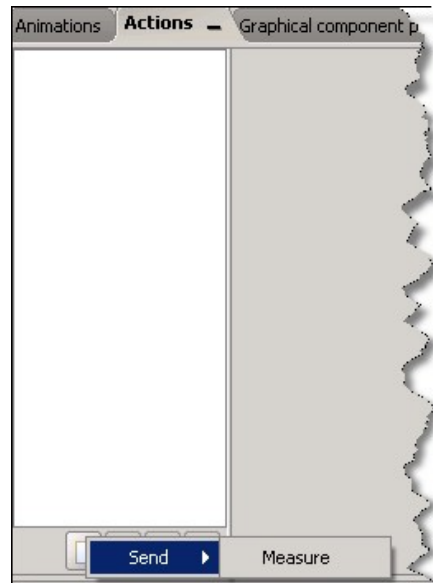


In the **Graphical Component properties** section (**Numeric data**), you will have to choose a minimum value and a maximum value. In the **Ticks** section, you will have to choose if you want to insert ticks (check the **Display ticks**), if so, select a major tick spacing and a minor one and finally, choose a direction (horizontal or vertical) in the **Display** section and if you want the labels to be displayed or not.



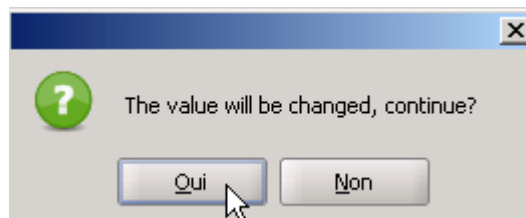
The only available action is the **Send measure** one. In this case, just link a Tag (only analog one are taken into account) to your **Slider**. The **Slider** will move according to the value of the Tag. Besides, you can send a value to the linked Tag by moving the slider.

2. Graphical Component



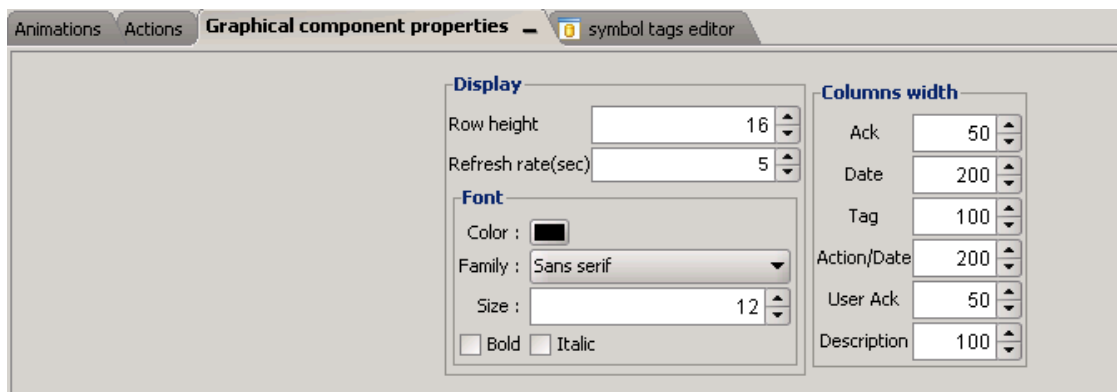
The **Return to initial value** is not used by the eWON, so it must remain disabled. Finally, insert a confirmation message if needed.

Hereunder an example of a confirmation message:



If you do not want a confirmation message to pop up, do not write anything in the **Confirmation Message** field.

2. Graphical Component



Be aware that for the **Alarm Summary**, there is no animation and no action. This graphical component is autonomous, no need to link Tags to it. Once the project has been exported in the eWON, the **Alarm Summary** is displayed on the eWON web page.

Here is the kind of table you will see:

<input type="checkbox"/>	Date	Tag	
<input type="checkbox"/>	20/08/2008 15:04:08	Formation	ALM (HI) 20/
<input type="checkbox"/>	20/08/2008 14:25:29	Test	ALM (HI) 20/
<input type="checkbox"/>	20/08/2008 10:18:31	Level	ALM (HI) 20/
<input type="checkbox"/>	14/08/2008 14:58:25	Particules	ALM (LVL) 1
<input type="checkbox"/>	14/08/2008 14:54:21	buton	ALM (LVL) 1
<input type="checkbox"/>	12/08/2008 14:50:50	Essai	ACK (LVL) 1

The first column (ACK) of the table can be used to acknowledge an alarm simply by checking the check box

NOTE



To display the **Alarm Summary** list, the user must have special access rights in your eWON (FTP server access and eWON Files access). Be also aware that the **Alarm Summary** cannot be tested through the **Animation Test** as it works in real time, linked to the alarm states of the Tags.

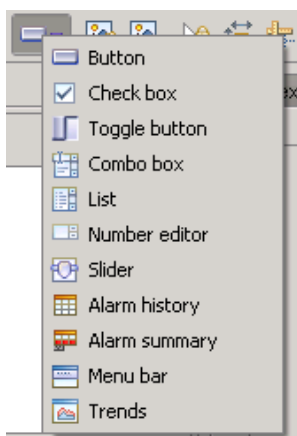
2. Graphical Component

<input checked="" type="checkbox"/>	Force Outputs
<input checked="" type="checkbox"/>	Acknowledge Alarms
<input checked="" type="checkbox"/>	Change Configuration
<input checked="" type="checkbox"/>	FTP server access
<input checked="" type="checkbox"/>	eWON Files access [EBD]
<input checked="" type="checkbox"/>	Java Forms access

Alarm History

The **Alarm History** will give you the opportunity to have an overview of the alarm states of your Tags for a certain period of time that you can define.

Select the **Alarm History**, the combo box will close. With the mouse, click on your View to make the **Alarm History** appear.

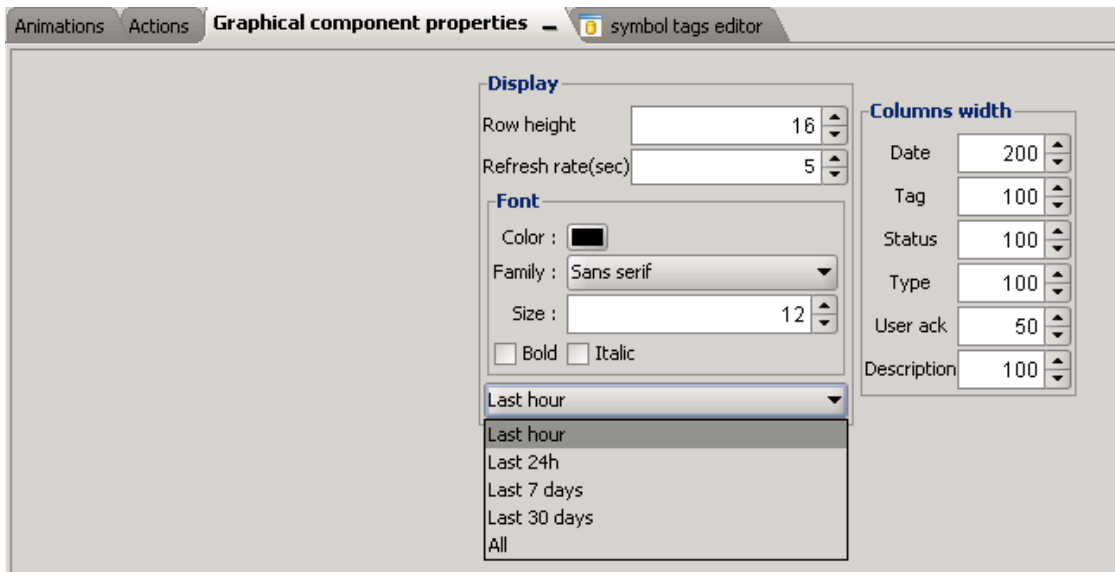


Date	Tag	Status	Type	User a...	Description

In the **Graphical Component properties** section, you can configure your **Alarm History** table.

Just like the other graphical components, you can choose the font color, its size etc. But you will be able to choose the size of the columns as well. Do not forget to select the time range you want to see on your table.

2. Graphical Component



Be aware that for the **Alarm History**, there is no animation and no action. This graphical component is autonomous, no need to link Tags to it. Once the project has been exported in the eWON, the **Alarm History** is displayed on the eWON web page.

Here is the kind of table you will see:


Date	Tag	Status
Wed Aug 20 15:04:41 CEST 2008	Particules	ALM
Wed Aug 20 15:04:08 CEST 2008	Formation	ALM
Wed Aug 20 15:04:01 CEST 2008	Level	RTN
Wed Aug 20 14:50:45 CEST 2008	Level	ALM
Wed Aug 20 14:25:29 CEST 2008	Test	ALM
Wed Aug 20 14:25:10 CEST 2008	Test	END


Below the table is a horizontal scrollbar and a dropdown menu showing 'Last hour'.

IMPORTANT



Be aware that if you select a long range of time (7 days, for instance), the page may take a lot of time to download (depending on the frequency of alarm changes).

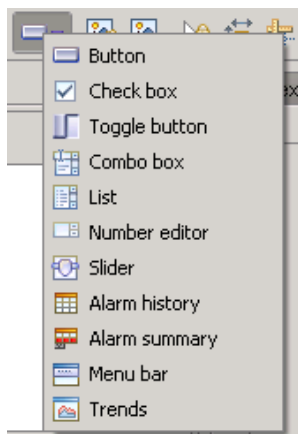
NOTE  If, while configuring your Alarm History, you asked to display the last 24 hours and later you would like to see the last hour only, then this last hour will be simply added to the 24 hours already displayed. The already displayed alarms will not be deleted from the screen.

NOTE  To display the **Alarm History** list, the user must have special access rights in your eWON (FTP server access and eWON Files access). Be also aware that the **Alarm History** cannot be tested through the **Animation Test** as it works in real time, linked to the alarm states of the Tags.

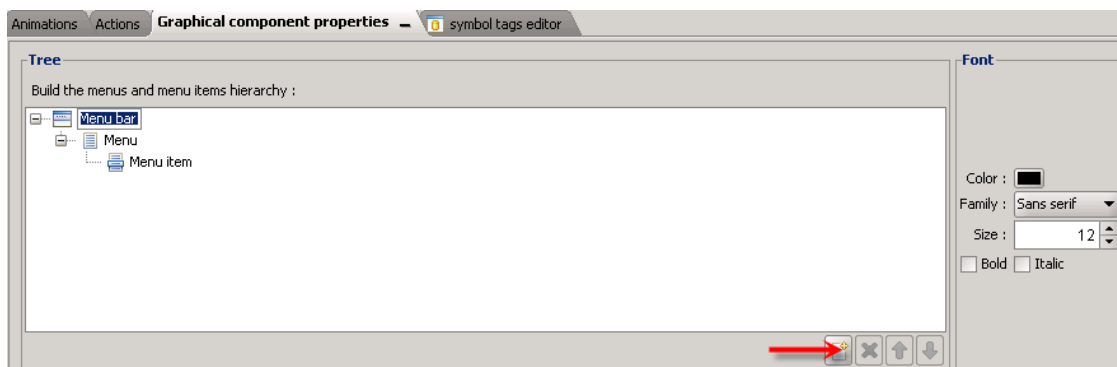
Menu Bar



With this graphical component, you will be able to create a menu bar by yourself. Select the **Menu Bar**, the combo box will close. With the mouse, click on your View to make the **Menu Bar** appear.

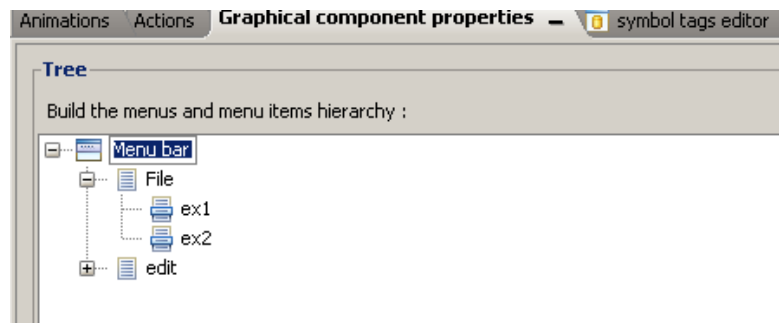


In the **Graphical Component properties** section, you can add menus and item menus only by clicking on the **+** on the right bottom of the screen. It works like a tree. Select the main menu called “Menu Bar” by default and then, click on **+**, you are able to add a menu.

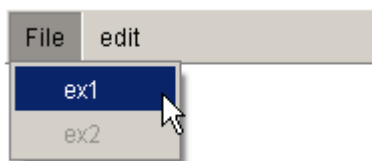


Then, if you click on this menu, you will be able to add an item menu. Of course, you can name all the menus and item menus as you please. All you have to do is select a menu and double-click, now you can write in the small field and press the ENTER key.

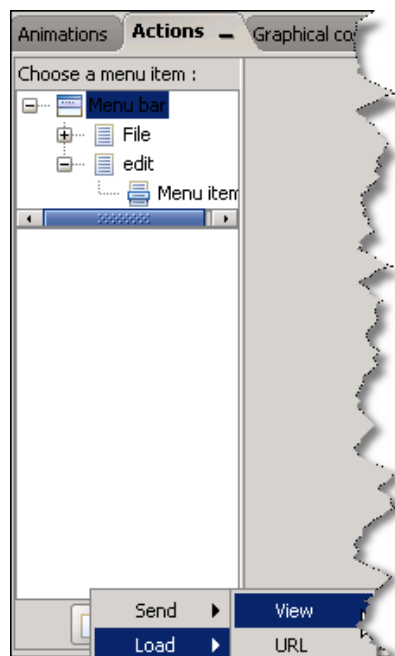
2. Graphical Component



Here is an example of the result:

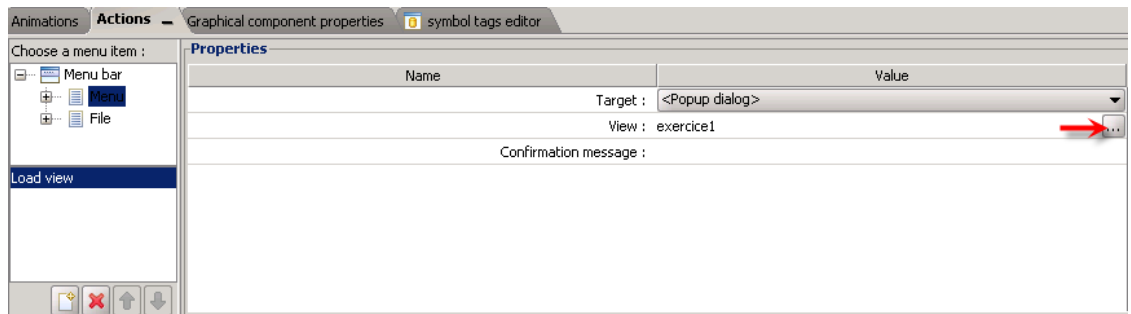


For this graphical component, only actions are available. Actions can be applied to the item menus (not to the main Menu). Choose an item and ask to **Load view**, for instance. You can choose a pop-up dialog. In the **View** section, click on to select which View you want to display. Finally, insert a confirmation message if needed.

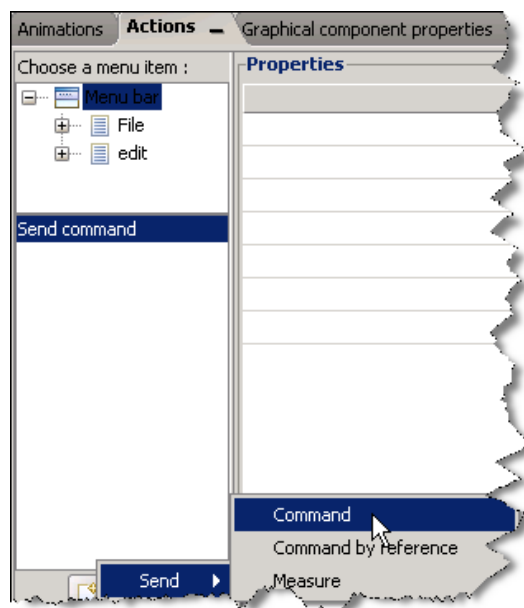


2. Graphical Component

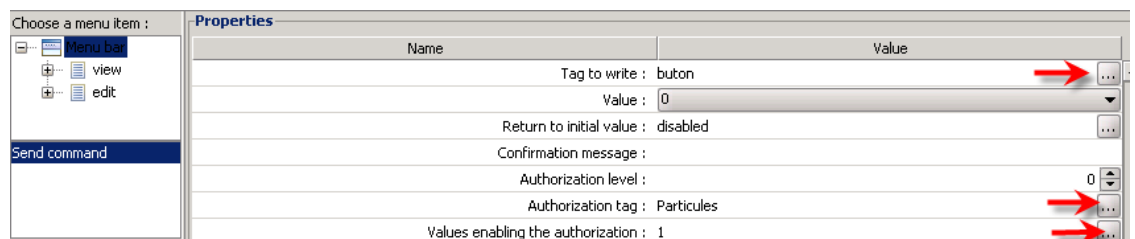
Do the same with the other Views you want to add in the menu bar.



The other action you can use is the **Send Command** action.



Here, choose a Tag and a value (0/1) to send to the Tag. This action is available for Boolean Tags only. In the following example, the value 0 will be sent to the Tag "buton" when you click on a menu item.

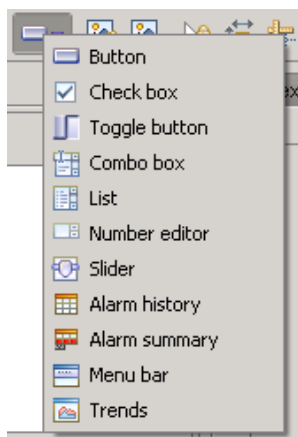


2. Graphical Component

You can also specify a Tag in the **Authorization Level** field. This will allow to enable or disable the Menu item depending on the value of the authorization Tag. The authorization level is not taken into account.

Trends

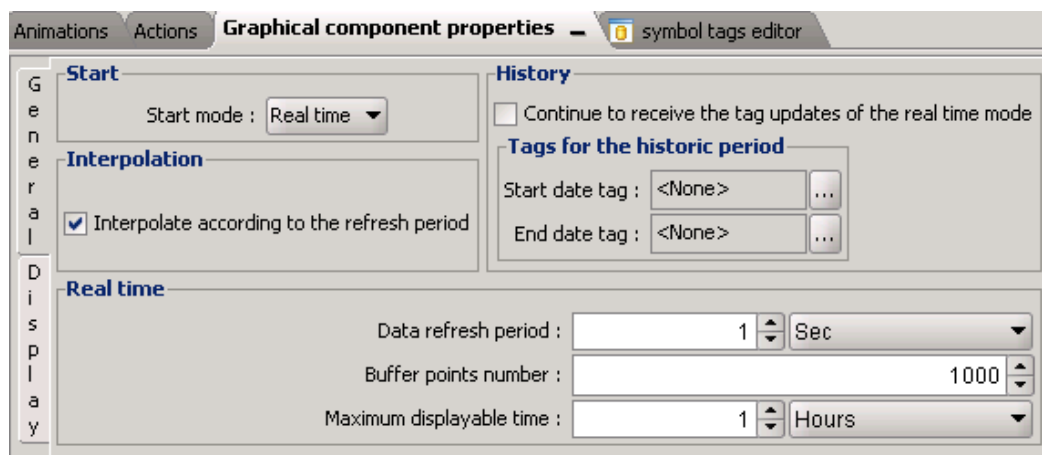
The **Trends** give you the opportunity to see the evolution of your Tags in the form of a graph.



Real time trend

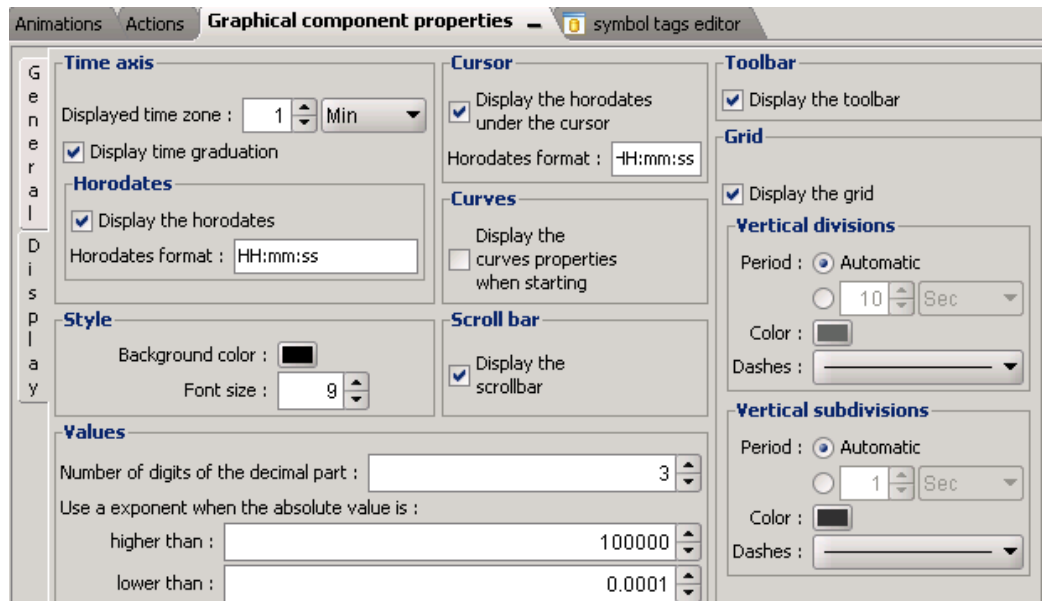
The **Real time trend** the values of the linked Tags in real time. Those values will not be recorded. They only stay in your Browser memory. So, if you close your web page, the real time graph will start from the beginning again.

To configure the **Real time trend**, you will need to fill the **General** and the **Display** settings. In the **Start** section of the **General** part, choose **Real time**. Check the **Interpolation** if you want each points to be linked. And insert a **Data Refresh** period (the period when a new point is taken), a **Buffer points number** (the number of the displayed points) and a **Maximum displayable time**.



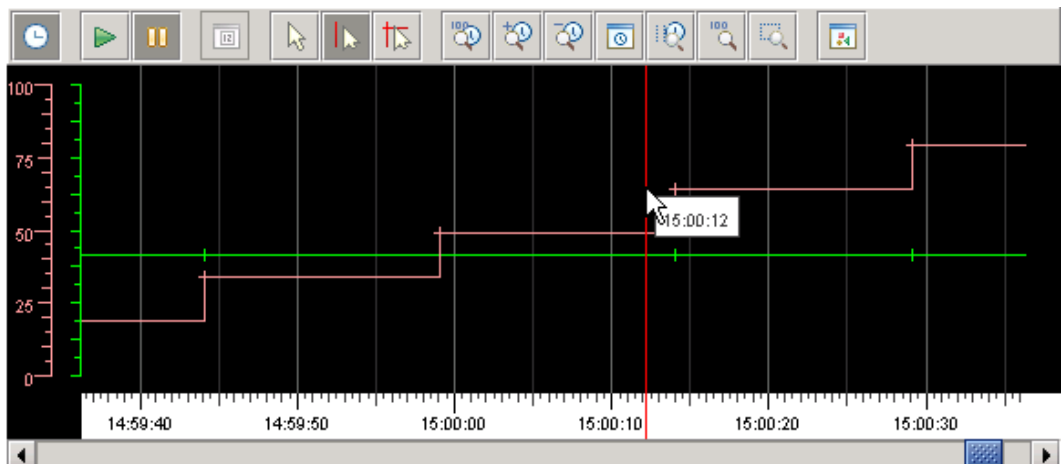
In the **Display** section, you can choose a time axis, the cursors, etc.

2. Graphical Component



Choose a **Displayed time zone** (the duration of visible part of the graph), the **Display time graduation** needs to be checked.

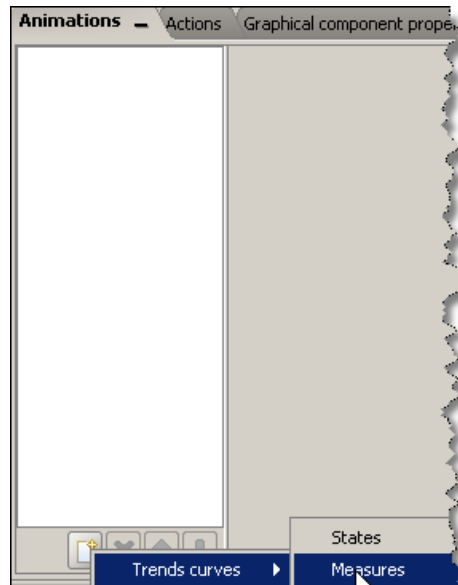
The **Horodates** define the time display (ex: 12:30:45 or 12:30). The **Cursor** section needs to be checked so that you can see the horodates when you click on a point of the graph.



If you check the **Curves**, then the properties of your curve will be displayed when you open your web page. In the **Grid** section, you can configure the aspect of your grid. The **Values** give you the opportunity to format the display of the cursor.

2. Graphical Component

To define the Tags that you want to display on the trend must use the **Animations**. Be aware that the States animation is of no use.

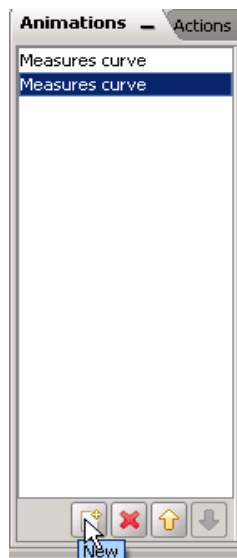


In the **Animations** section(**Trend curves/ Measures**), select a Tag that you want to link to the **Trends**, choose a **Label** (for instance, °C, this label will not appear on the graph, but in the properties of the graph), choose a **Minimum** and a **Maximum**, the color, the dashes, the interpolation, the color for the invalid state, etc. Pay attention, if you do not choose an interpolation, you may not see your graph.

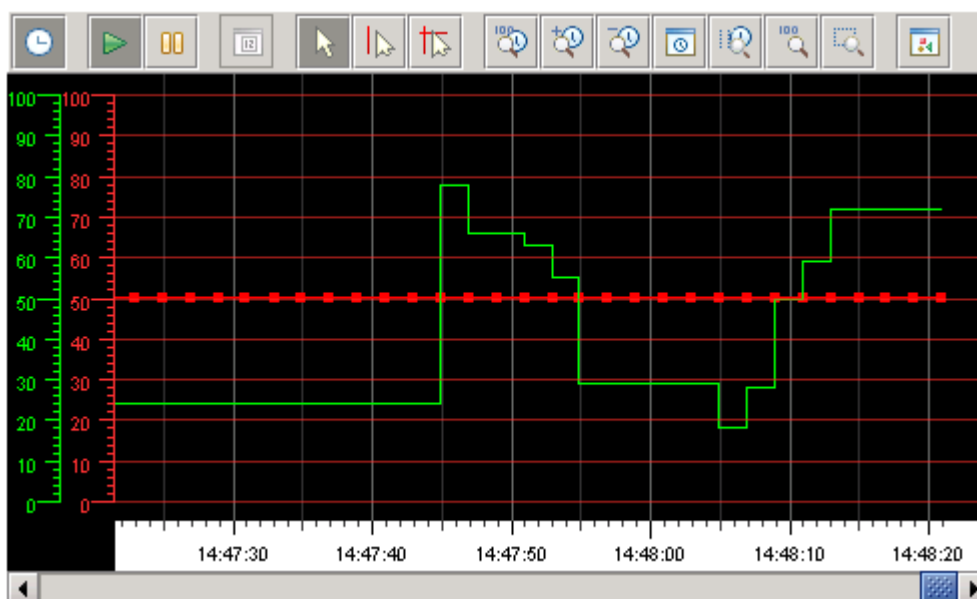
tag :	Test	...
Label :	°C	
Minimum :	0	...
Maximum :	100	...
Display the scale :	<input checked="" type="checkbox"/>	
Color :	<input checked="" type="checkbox"/> 	
Thickness :		1 <input type="text"/>
Dashes :	<input type="text"/>	
Points :	<input type="text"/>	
Interpolation :	<input type="text"/>	
Color if in invalid state :	<input checked="" type="checkbox"/> 	
Thickness if in invalid state :		1 <input type="text"/>
Dashes if in invalid state :	<input type="text"/>	

2. Graphical Component

If needed, you can display another curve in your **Trend** graph. Just click on add animations and proceed as explained above.



Once you have done this, export the project to the eWON and your **Trends** will be displayed in your web page.



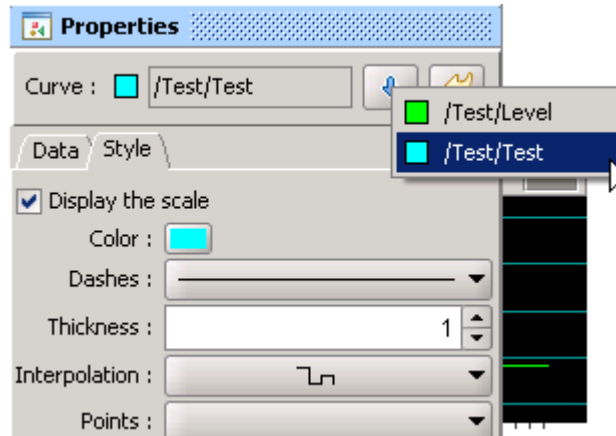
Once you are on this page, you will see the curves corresponding to the tags you chose before.

Thanks to the tool bar, you will be able (from the left to the right) to shift from the **Real time log** to the **Historical log**, play, pause, select a new time zone, display a cursor, zoom in, zoom out, display a new duration, zoom only a period of time and display the properties of the curves. To open those properties, just click on the last icon of the menu bar.

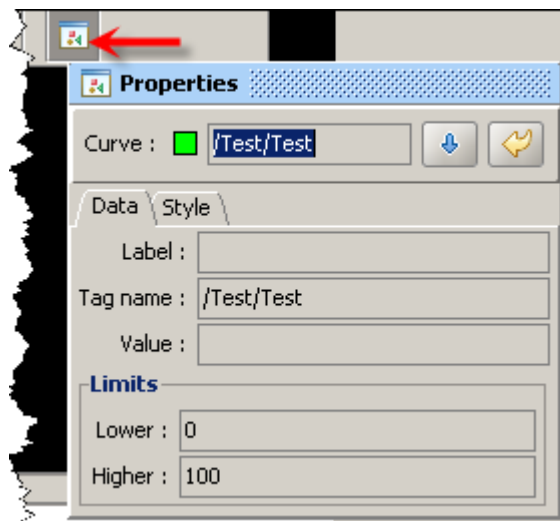
2. Graphical Component



The **Properties** allow you to customize your graph. In **Style** tab, you can change the color, the dashes, the thickness, the interpolation of the curves. The blue dart helps you switch from one curve to another and the yellow dart sets the previous settings back.



To close the information, just click on the same icon again (on the menu bar).



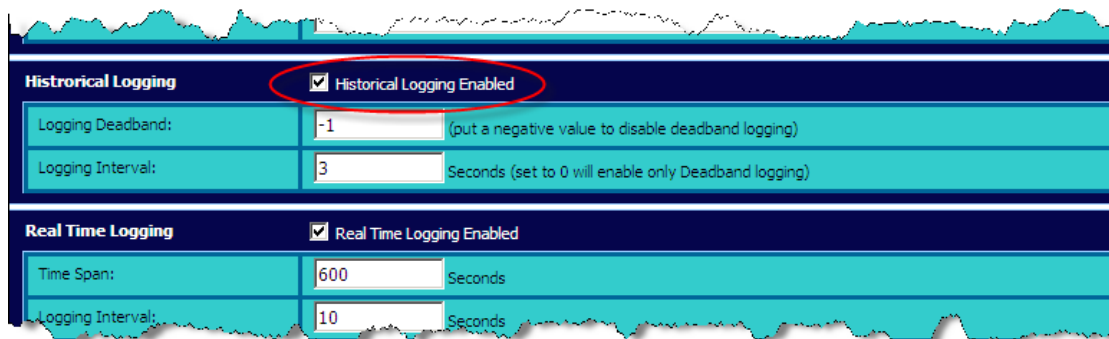
Please bear in mind that each time the tool bar is used, the graph stops. You have to click on *play* for it to go on.

NOTE For all this to work, the Tag has to be able to read the Historical Logging. So, make sure the Historical logging is checked in your Tag setup (in the eWON).

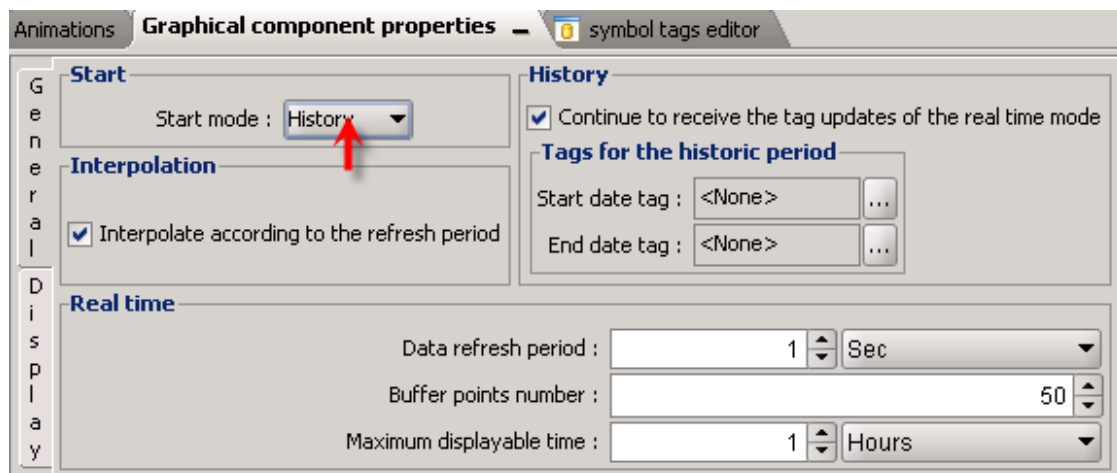


Historical trend

The **Historical trend** displays the curves of the Tag linked to the **Trends**. It will display for a period of time defined by the user the values of the linked Tags in the form of a graph. The historical data are retrieved from the eWON. So, it is very important to activate the **Historical Logging** in the eWON for those Tags.

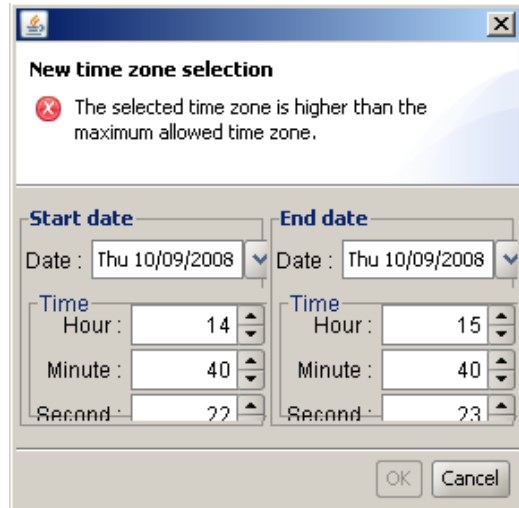


The configuration of the **Historical trend** is similar to the **Real Time trend**. The only difference is that you will have to choose History in the **Graphical component properties**:



2. Graphical Component

Be aware that the **Maximum displayable time** is taken into account for the maximum duration of the **Historical trend**. The selected time zone should be lower than the **Maximum displayable time**. So if you select more than one hour when viewing your graph on the eWON web page, you will have the following message:



NOTE For the **Historical trend** to work, you have to activate the **Historical Logging** (in the eWON) BEFORE importing the Tags in viewON 2.



Revisions

Revision Level	Date	Description
1.0	2008-10-10	First release.
1.1	2008-11-17	User rights for Alarm History

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Document build number: 175

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