

PANASONIC FIRE ALARM SOLUTIONS TECHNICAL DESCRIPTION



EBL GRAPHICS v. 2.3.X



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1 INTRODUCTION

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1. INTRODUCTION

This document describes a product that consists of two applications; EBL Graphics Designer and EBL Graphics.

EBL GRAPHICS DESIGNER

EBL Graphics Designer is used to create detailed drawings and to import alarm points from an EBLWin file (*.ebl). Overview drawings are also created here. This application is also used to create users and to configure the EBLnet connection for EBL Graphics.

EBL GRAPHICS

This is the monitoring application. It will use EBLnet to connect to a web-server and show all faults, disablements and so on in the deviations view. It will also present fire alarms and disablements on the drawings. The user may be granted to reset fire alarms, disable / re-enable and acknowledge faults.

1.1. LIMITATIONS

EBL Graphics version 2.3.X exist in both 32-bit or 64-bit version.

An EBL Graphics solution, using **Panasonic network camera**, must use **32-bit version**. This is because the network camera components support Windows 32-bit only.

The 64-bit version is to prefer if the plant is very big, since it is memory consuming for the PC.

It is possible to run the 32-bit version of EBL Graphics (with network cameras) on 64-bit OS, but EBL Graphics will be limited to RAM usage according to 32-bit OS.

2. ABBREVIATIONS AND EXPLANATIONS

EBLWeb	Web browser interface for web-server	or web-server software
PC	Personal Computer	
RAM	Random Access Memory	

3. EBL GRAPHICS DESIGNER

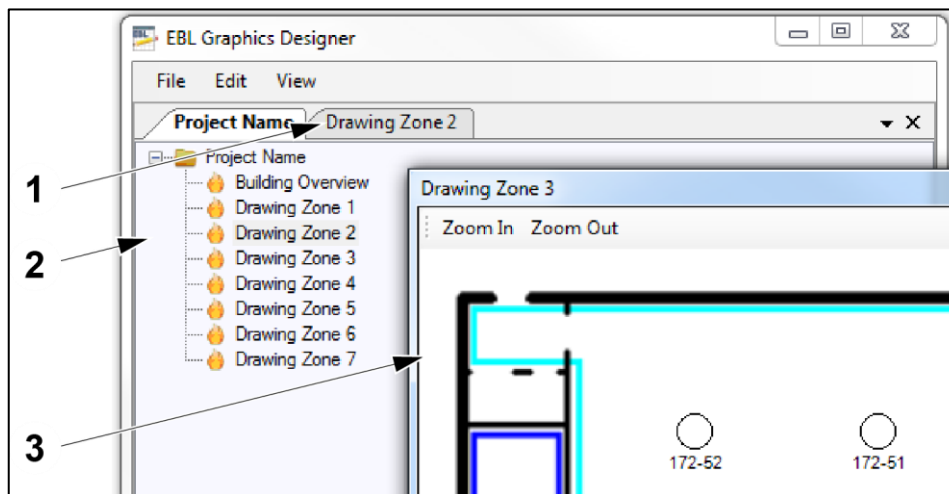
The configuration in EBL Graphics Designer will result in a XML-file, which can be opened and used locally by the end user. The end user needs to download the EBL Graphics software, and also needs the user data created in EBL Graphics Designer.

3.1. GENERAL DESCRIPTION

This application provides the functionality to:

- Create detail drawings
- Create overview drawings
- Place alarm points on the drawings
- Define the users of the EBL Graphics application
- Configure the EBLnet connection

The EBL Graphics Designer has a tree view, into which the drawings are added. The drawing will be opened as a tab. It is possible to drag the drawing tab to get a detached drawing window. Once opened, it is possible to drag and drop an image file from windows explorer to the drawing. This will be the background drawing. Onto the background drawing one can drag and drop alarm points from the Symbols window, see section [3.7.1 LOAD ALARM POINT SYMBOLS](#).



- 1) Drawing tab
- 2) Tree view
- 3) Detached drawing window

NOTE! Make sure the EBL Graphics application is closed when changes are made in the EBL Graphics Designer.

3 EBL GRAPHICS DESIGNER



3.2. INSTALLATION

These applications are downloaded from <http://pesn.panasonic.se>.






When the EBL Graphics is downloaded, the EBL Graphics Designer is automatically included.

An EBLnet license and an EBLnet license key are required to be able to use the applications.

- a) Download the two rar-files from <http://pesn.panasonic.se> to the PC.
Drivers_for_EBL_Graphics.rar contains for example drivers for network camera and chart handling.

 EBL_Graphics_V2_2_0.rar	WinRAR archive	25,425 KB
 Drivers_for_EBL_Graphics.rar	WinRAR archive	6,051 KB

- b) The installation procedure includes the following files, see below.

Name	Type	Size
 MSChart.exe	Application	1,809 KB
 nwc4Ssetup.exe	Application	1,932 KB
 setup.exe	Application	418 KB
 Setup.msi	Windows Installer Package	26,439 KB
 vcredist_x86.exe	Application	2,639 KB

Install the files in the following order:

- 1) vcredist_x86.exe
- 2) nwc4Ssetup.exe
- 3) MSChart.exe
- 4) setup.exe

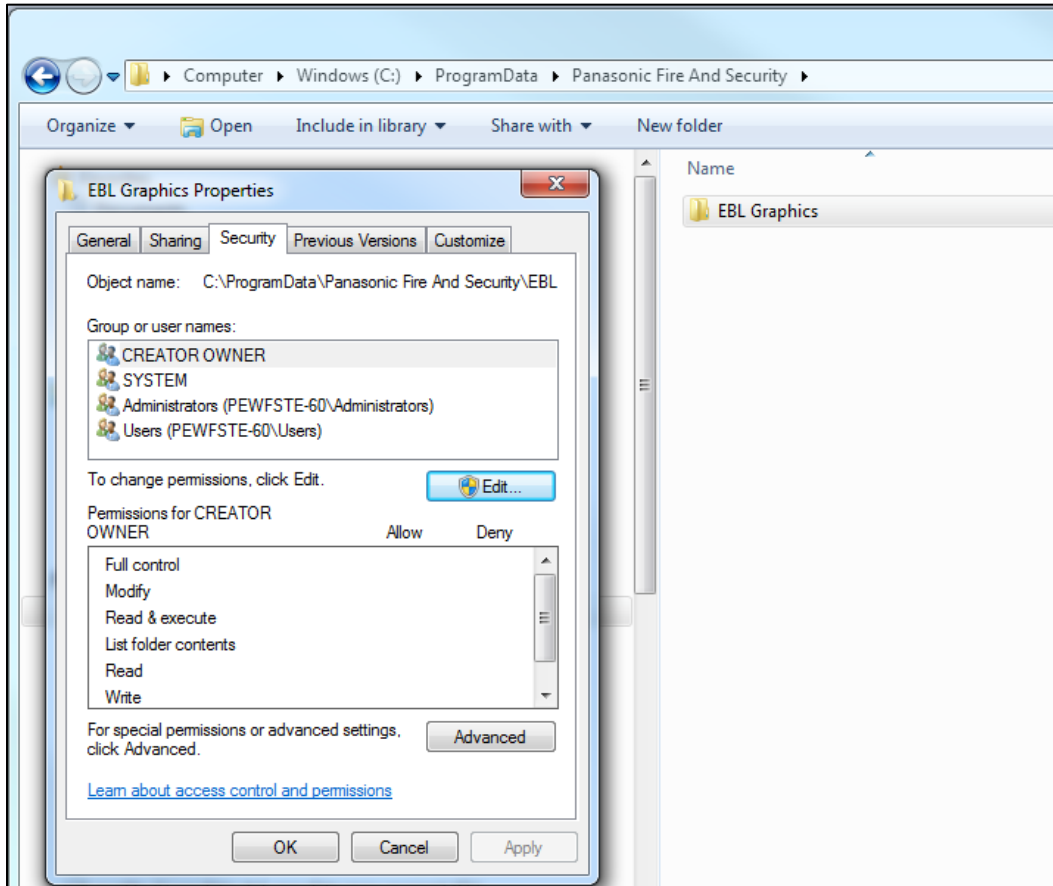
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3 EBL GRAPHICS DESIGNER

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The event log is saved in the `Panasonic Fire And Security` folder. The user of EBL Graphics Designer needs `Modify`, `Read`, and `Write` permission to this folder.

- c) Go to C:/ProgramData/Panasonic Fire And Security/
- d) Right click on the EBL Graphics folder. Select **Properties**.
- e) In the dialog window, select **Security**.
- f) Press Edit and change the settings for `Modify`, `Read`, and `Write`. Tic the checkboxes to **Allow**.
- g) Press **OK**.



For technical requirements, see section 5 TECHNICAL DATA in this document.

3.3. CREATE A NEW PROJECT

Select an empty folder for the project xml file. Place the drawings in the same folder, or sub folders. If the data has to be moved or a backup should be made, then it is simply a matter of moving / copying the entire root folder.

- a) Make sure you have created a folder for the project to be saved in.
- b) Start the EBL Graphics Designer and select **create a new project**.

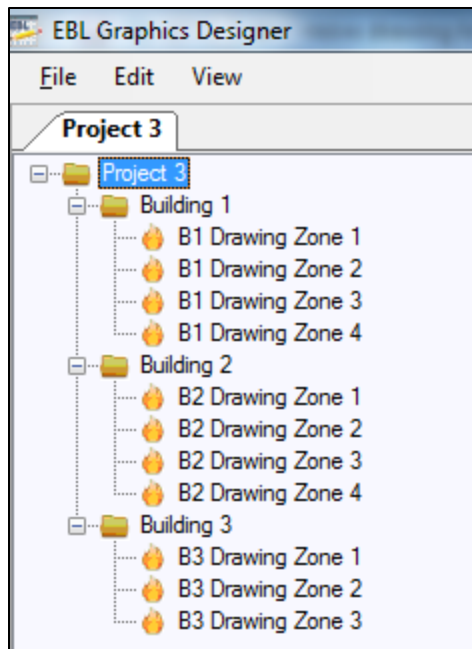
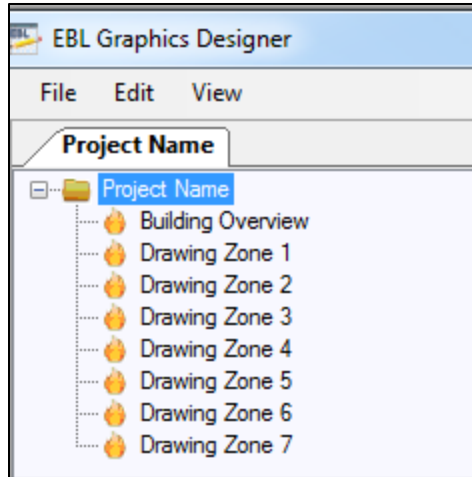


- c) Browse for the folder where the project will be saved. Press **OK**.
- d) The project filename will be the same as the folder but with the extension xml.

NOTE! This folder will be the root of the project. When creating drawings, these will be saved in this folder.

3.4. DRAWING STRUCTURE

It is recommended to arrange the drawings in the tree view structure so that the structure is reflecting the actual building. See the examples below.



3.5. ADD A DRAWING

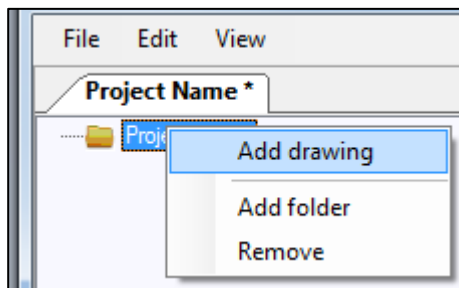
NOTE! The appearance of the drawing view can vary depending on screen resolutions, settings, size / resolution of the drawing-image and so on.

Maximum number of drawings and links (magnifying glass) in a project depends on the memory of the PC, and the size of the drawings. There is no limit set in the software.

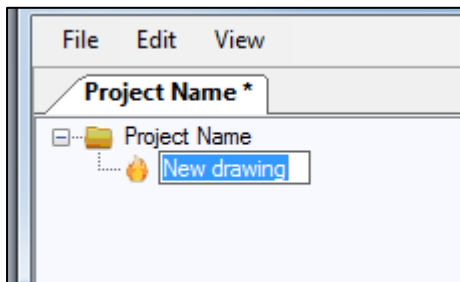
The image formats that are supported by EBL Graphics are:

- BMP
- GIF
- JPEG
- PNG
- TIFF

- a) Right-click the **map** symbol in the tree view and select 'Add drawing'. A drawing node (fire symbol) named "New drawing" will appear.



- b) Rename the drawing node by clicking on "New drawing" twice. Write the new name and press **Enter**.



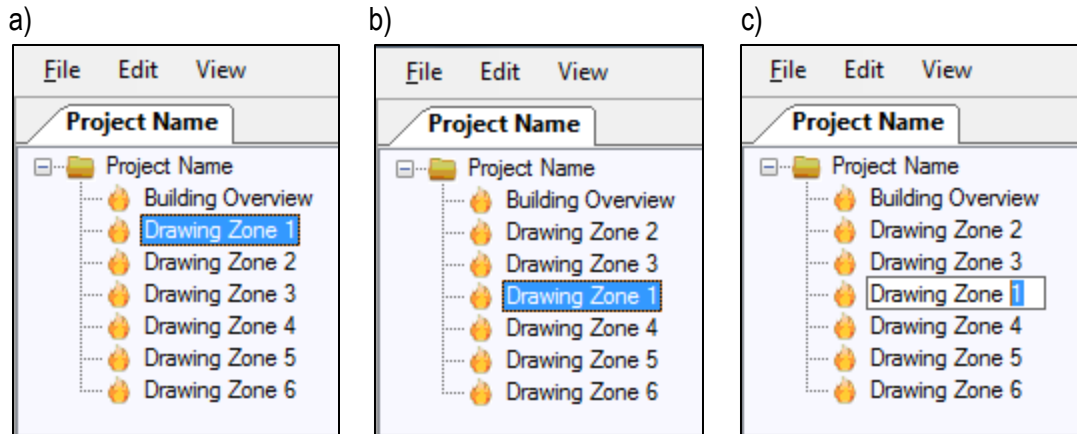
- c) Double click a **drawing node** to open an empty drawing window.
 d) Drag and drop an image file into the drawing window. It is now possible to zoom and scroll the drawing.
 e) Save the drawing: File / **Save**.
 f) To close the drawing, click the **close** symbol in the upper right corner.

3 EBL GRAPHICS DESIGNER

3.5.1. MOVE DRAWING IN STRUCTURE

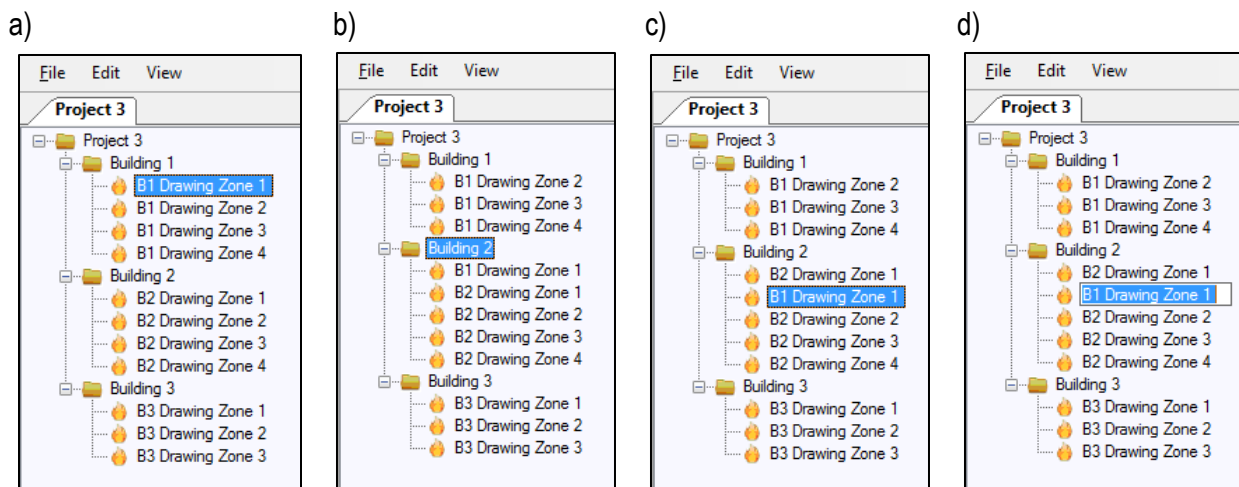
It is possible to change the position of a drawing in the tree view.

- a) Drag the drawing.
- b) Drop the drawing on the node above the desired position.
- c) Rename the drawing.
- d) Save project.



It is also possible to move drawings between different folders in a project structure like below. In the following example the 'B1 Drawing Zone 1' will be moved to position 2 in 'Building 2' folder.

- a) Drag the drawing.
- b) Drop the drawing on to the 'Building 2' folder. The drawing will automatically be given position 1 in 'Building 2' folder.
- c) Drag and drop the drawing 'B1 Drawing Zone 1' one step down.
- d) Rename all affected drawings in 'Building 1' and 'Building 2' folders.
- e) Save project.

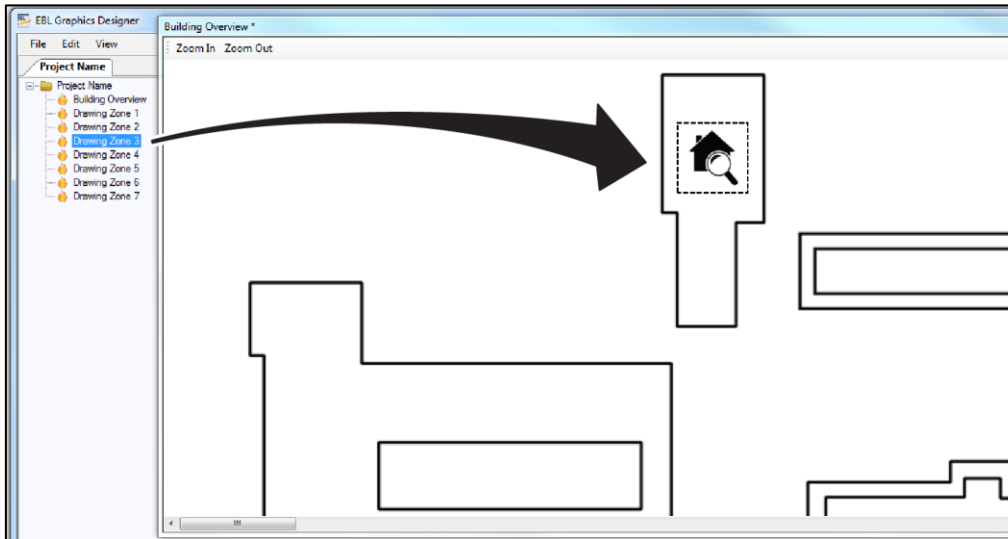


3 EBL GRAPHICS DESIGNER

3.6. OVERVIEW DRAWING

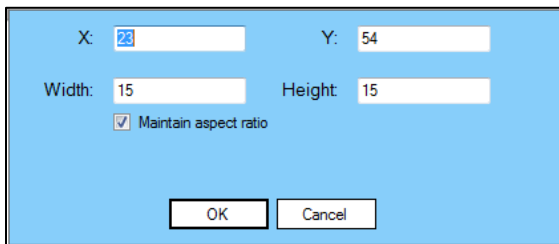
It is recommended to have an overview drawing over the building or building area. This drawing can be provided with links to the different detailed drawings. The link symbols will also indicate deviations in the EBL system. The links will only function in EBL Graphics.

- a) Double click on the **drawing node** to open the overview drawing.
- b) Drag and drop the detailed drawing from the tree view, into the overview drawing. The link will appear as a “magnifying glass” symbol.



- c) To change size of the symbol, double click the “magnifying glass” symbol. A dialog window will appear.

NOTE! The `Maintain aspect ratio` checkbox is selected by default.



- d) To delete the link, click on the “**magnifying glass**” symbol to select it. Press **Delete**.

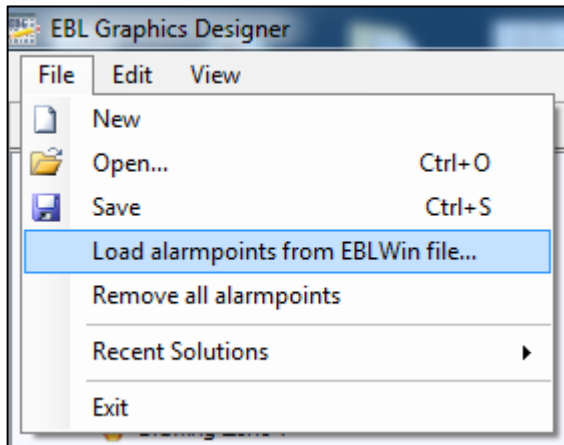
3 EBL GRAPHICS DESIGNER

3.7. DETAILED DRAWING

The detailed drawing will show the position of all the alarm points for that chosen area. The alarm point symbols will indicate deviations in the system. It is also possible to insert links to network cameras.

3.7.1. LOAD ALARM POINT SYMBOLS

- a) In the File menu, select 'Load alarm points from EBLWin file...' and browse to the project EBLWin file (*.ebl).



- b) The **Symbols** window will appear in a new tab.

The screenshot shows the 'Symbols' window in the EBL Graphics Designer. It contains a table with the following columns: Drawing, Zone-address, Text, Instructions, and Camera. The table lists various alarm points with their corresponding symbols and addresses.

Drawing	Zone-address	Text	Instructions	Camera
001-01	001-01	Manual Call Point 3333		
001-02	001-02	Analog Heat Detector 3308		
002-01	002-01			
002-02	002-02	Analog Multi Detector (smoke) 4300		
002-03	002-03	Analog Multi Detector (heat) 4300		
010-01	010-01	Analog photoelectric smoke detector 4301		
010-02	010-02	Analog heat detector 3309		
020-01	020-01	Smoke detector 2304 / base 2312		
030-01	030-01	Multi detector, Advanced mode		
100-01	100-01	3361 zone line input		
101-01	101-01	Manual Call Point 3333		
101-02	101-02	Analog Heat Detector 3308		
102-01	102-01	Analog Multi Detector 4401 Advanced mode		
102-02	102-02	Analog Multi Detector 4400 Advanced mode		
110-01	110-01	Mounted on sounder base		
110-02	110-02	Analog heat detector 3309		
200	200	DET8 zone line input		
333	333	DET8 zone line input		
700-01	700-01	Aspect Gitzle 01		
700-02	700-02	Aspect Gitzle 02		
800-01	800-01	Wireless detector 4611		
800-02	800-02			

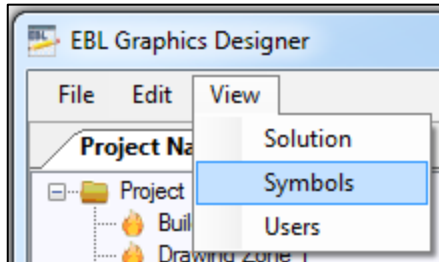
- c) The symbols can be sorted by any of the columns headings.

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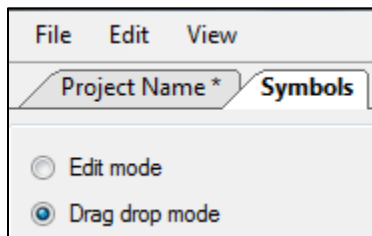
3.7.2. ADD ALARM POINT SYMBOLS

NOTE! Before adding symbols to the drawing; save the drawing.

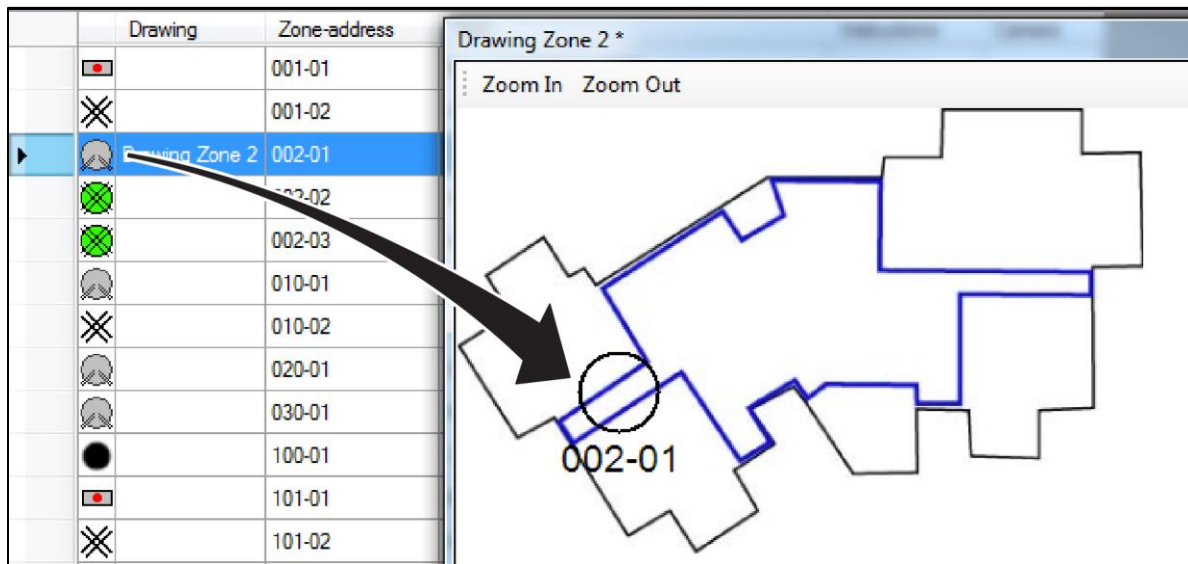
- a) Select **View** menu / **Symbols** to open the symbols window.



- b) Select 'Drag drop mode' in the Symbols window.



- c) Drag and drop the symbols from the symbol window onto the drawing. In the column 'Drawing' a reference will appear; the name of the drawing in which the symbol is used.

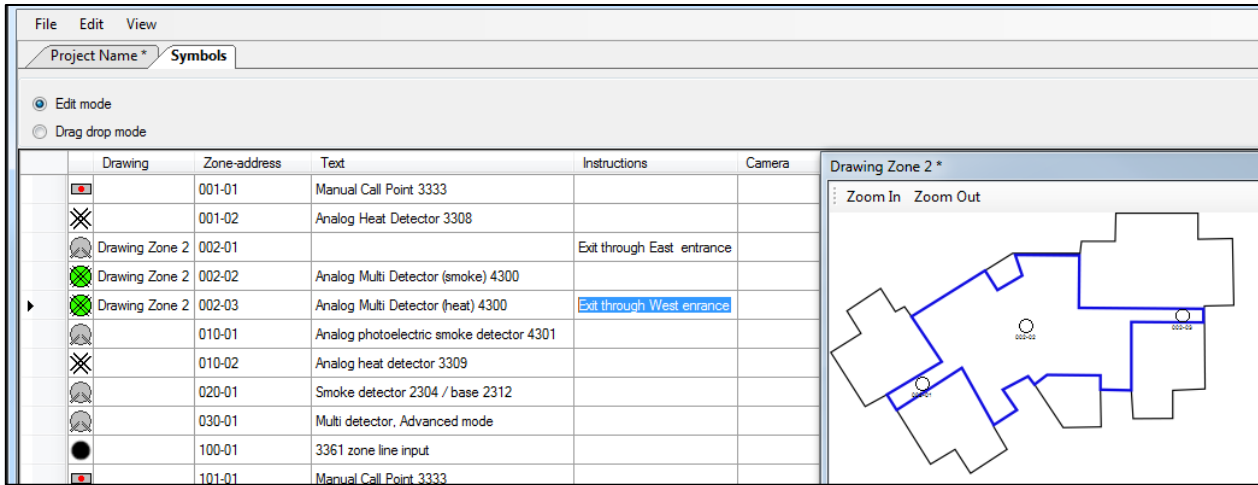


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3 EBL GRAPHICS DESIGNER

Continued

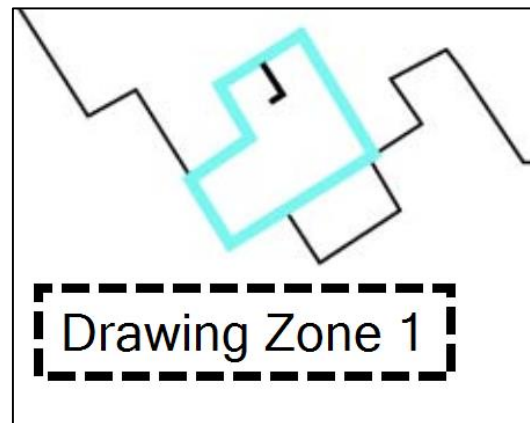
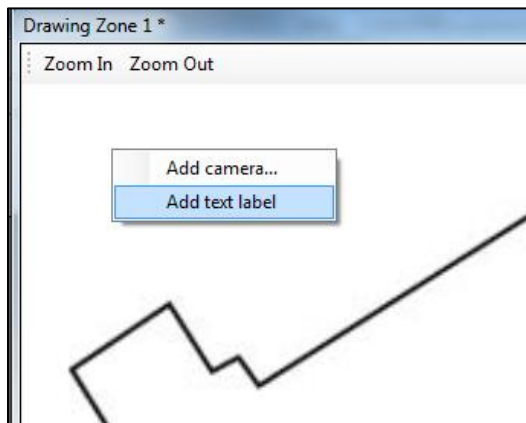
d) To add instructions, set the Symbols window to 'Edit mode'. Enter instructions.



3.7.3. ADD TEXT LABEL

Add a descriptive text on the drawing.

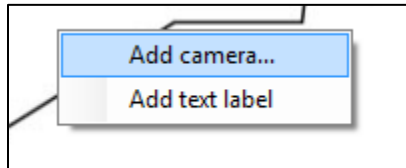
- Right click in the drawing and choose "Add text label".
- Drag the text label into position.



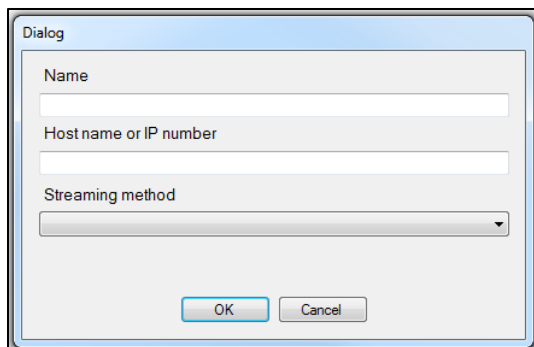
3.7.4. ADD A PANASONIC NETWORK CAMERA

It is possible to add a network camera to EBL Graphics. The network camera will be “connected” to one or several alarm points. When the properties of an alarm point are displayed, the view of the network camera will also be displayed. **NOTE!** For information on configuration data, contact the site system administrator.

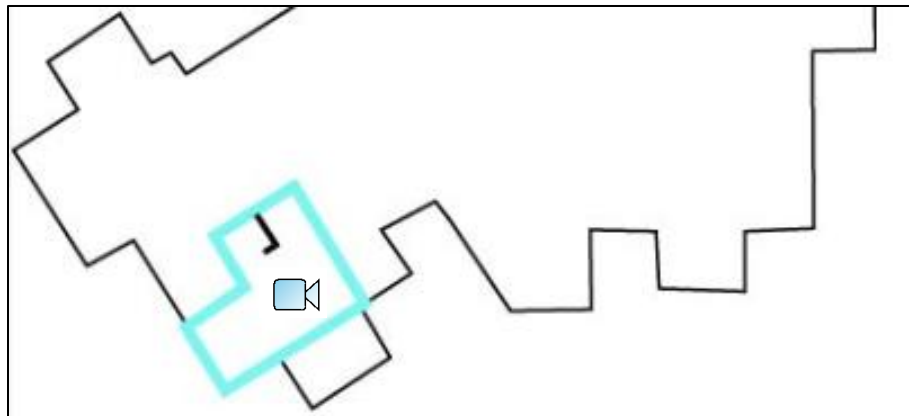
- a) Right click in the drawing and choose “Add camera”.



- b) Fill out the network camera configuration. Press **OK**.



- c) The network camera symbol appears. Drag the camera symbol into position.



- d) In the symbol window, click in the camera column and choose the network camera. The network camera is now connected to the alarm point on that row.

	Drawing	Zone-address	Text	Instructions	Camera
▶		001-01	Manual Call Point 3333		
		001-02	Analog Heat Detector 3308		Cam room 1

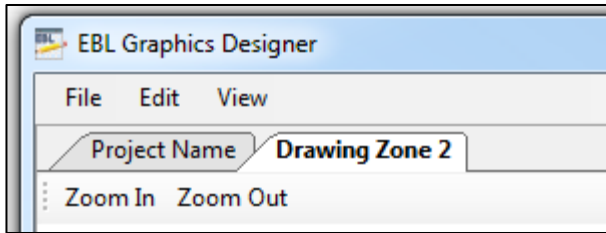
- e) Repeat for all other alarm points that shall be connected to the camera.

3.7.5. PLACE SYMBOLS

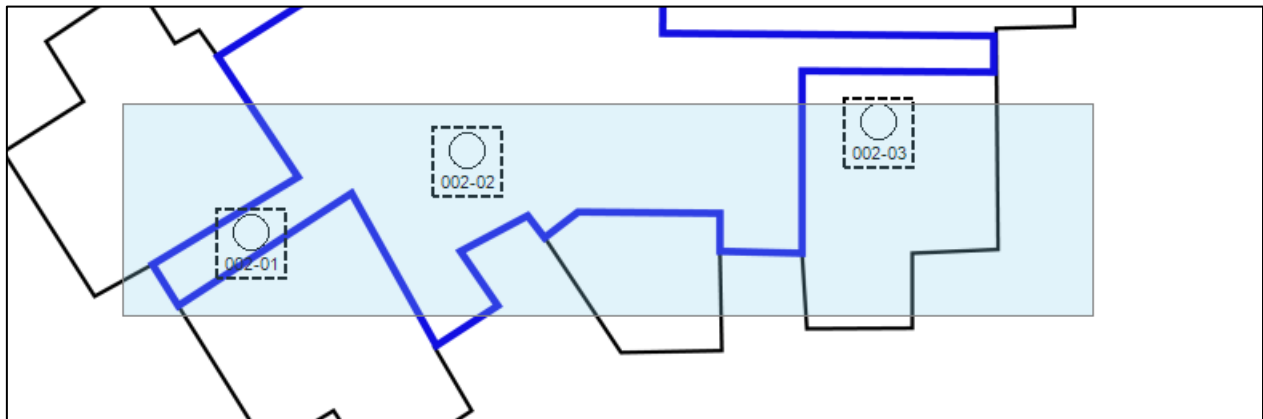
This function is useful if the symbols on the drawing should be placed on a straight line.

NOTE! This function can only be used when the drawing window is attached to the main window, as a tab.

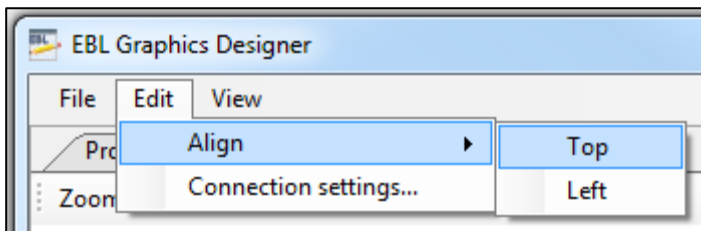
- a) To attach the drawing window to the main window, drag the drawing window and drop it onto another, existing tab. In this example `Project Name` tab.



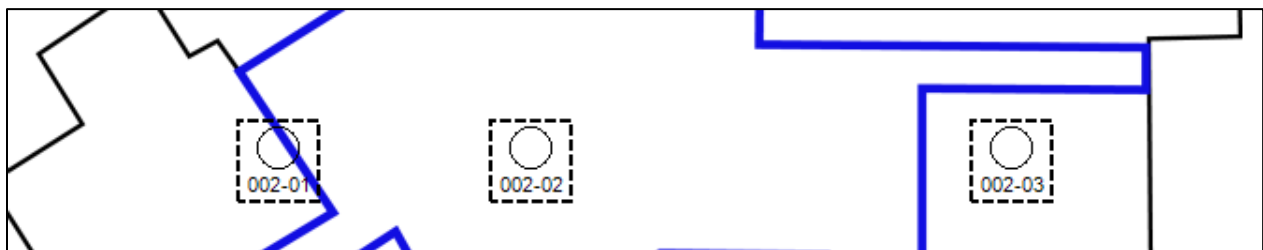
- b) Select all the symbols that should be placed on a straight line. To select several symbols, left click and select the entire area around the symbols.



- c) Go to **Edit** menu / **Align** and choose **Top** or **Left**.



- d) If Top is chosen, the selected symbols will move and be positioned on a horizontal line. The symbols will adjust to the same height as the highest positioned symbol.

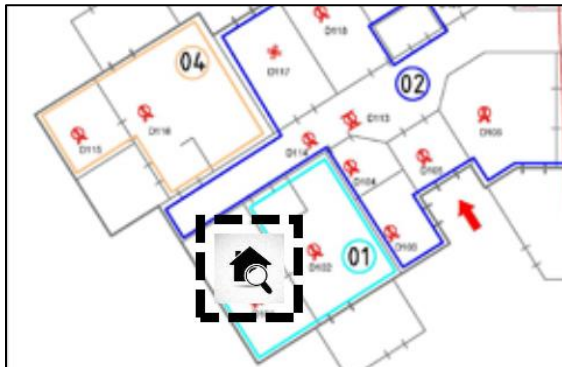


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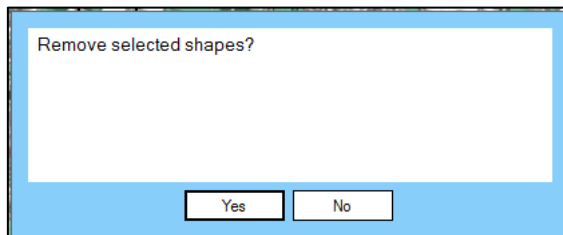
3.7.6. DELETE SYMBOLS

This procedure is valid for network camera symbols, alarm point symbols, and text labels.

- a) To delete a symbol, select the symbol. The symbol will get a dashed frame. Press **Delete**.

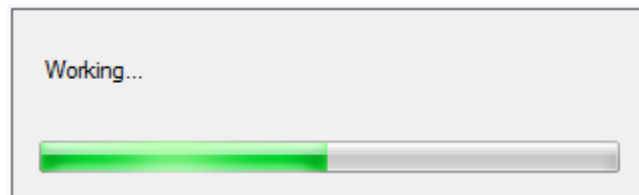
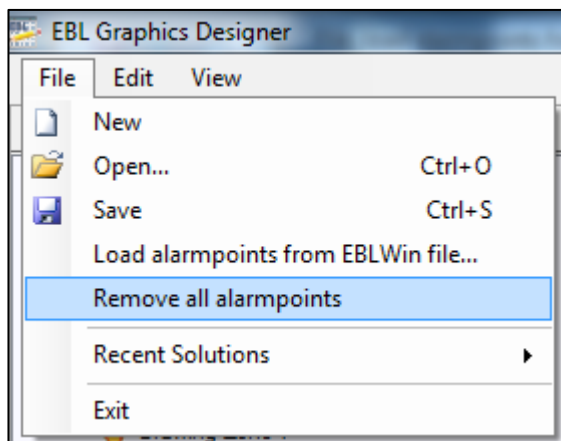


- b) In the dialog window, press **Yes**.



3.7.7. REMOVE ALL ALARM POINTS

- a) Go to **File** menu / **Remove all alarm points**.
- b) All alarm points in all drawings will be deleted. Also the Symbols window will be deleted.



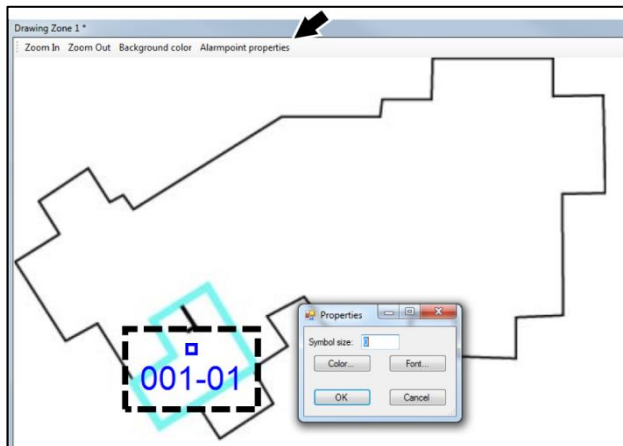
3.8. GRAPHIC EFFECTS

There is a possibility to customize the drawings in EBL Graphic Designer. It can be used to distinguish different zones or different drawings from each other by colour.

3.8.1. EDIT ALARM POINT SYMBOLS

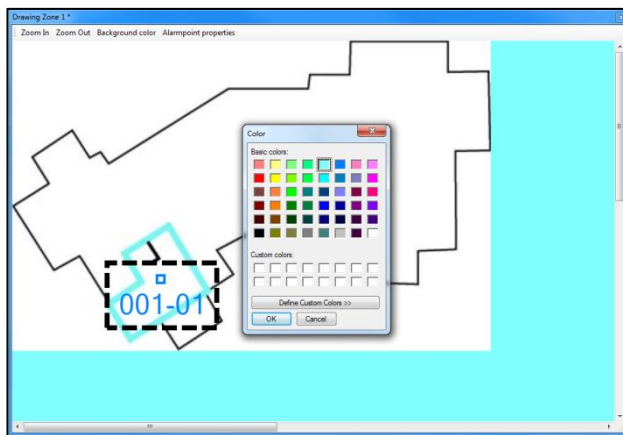
Click on "Alarm point properties" in the drawing window or double click the alarm point symbol. Set:

- Symbol size (measured in points)
- Font size (measured in points)
- Symbol / Font color



3.8.2. EDIT BACKGROUND COLOR

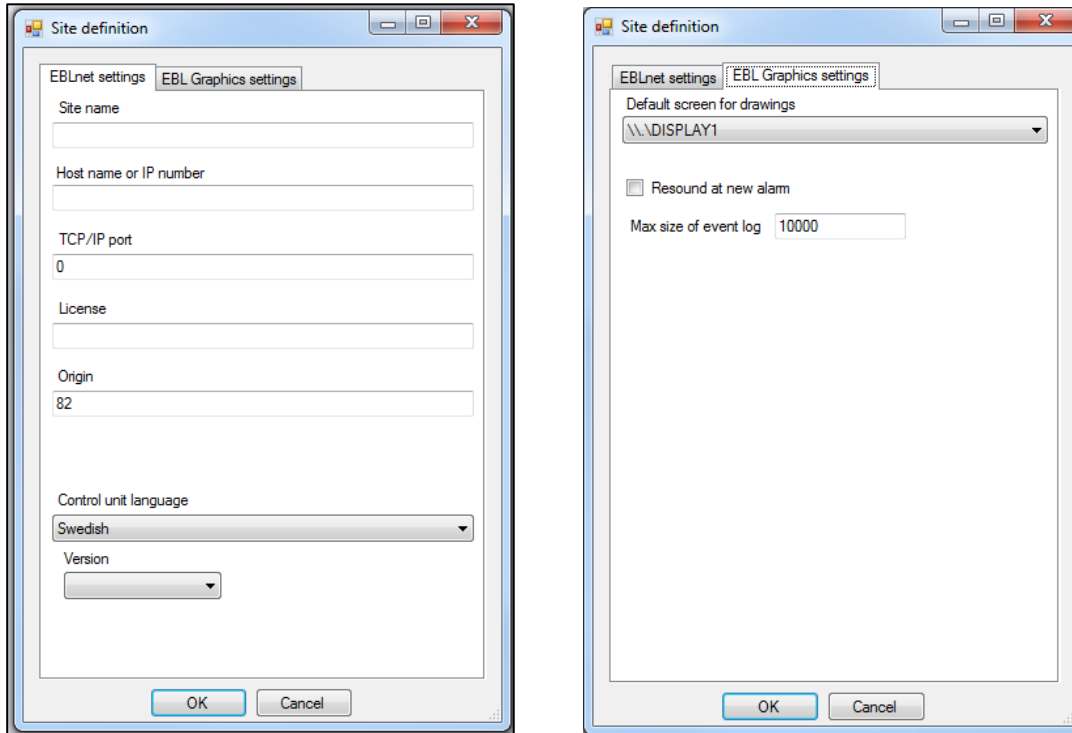
Click on "Background colour" in the drawing window



3.9. EBLnet CONFIGURATION

NOTE! For information on configuration data, contact the site system administrator.

- a) Go to **Edit** menu / **Connection settings**...The web configuration must be done to be able to connect to the actual EBL system.

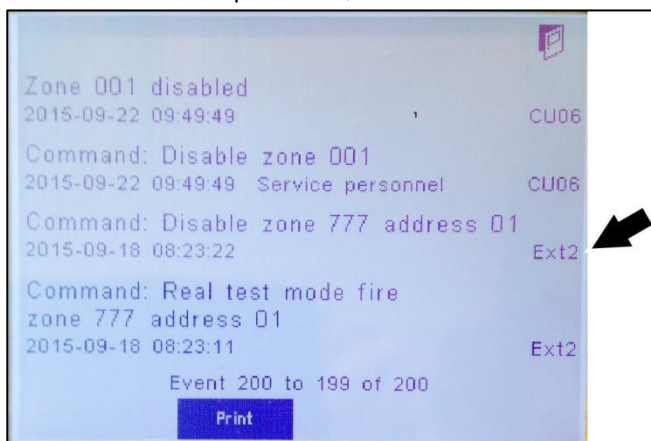


- b) Fill out the dialog window `Site definition`.

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3.9.1. EBLnet settings

- **Site name** – Where the actual EBL system is situated
- **Host or IP number** – Web-server connected to the EBL system
- **TCP / IP Port** – Is found in EBLWin, EBLnet settings for the web-server.
Make sure “Use EBL net” in EBLWin is checked.
- **License** – Valid EBLnet license **key** number
- **Origin** – 80 to 89. Defines the origin code for the event log in the Control Unit.
80 will generate origin code Ext0 in menu U7 Event log
81 will generate origin code Ext1 in menu U7 Event log, and so on.
In the example below, 82 is chosen.



- **Control unit language** – Choose same as in the EBL system
- **Version** – The version used in the EBL system

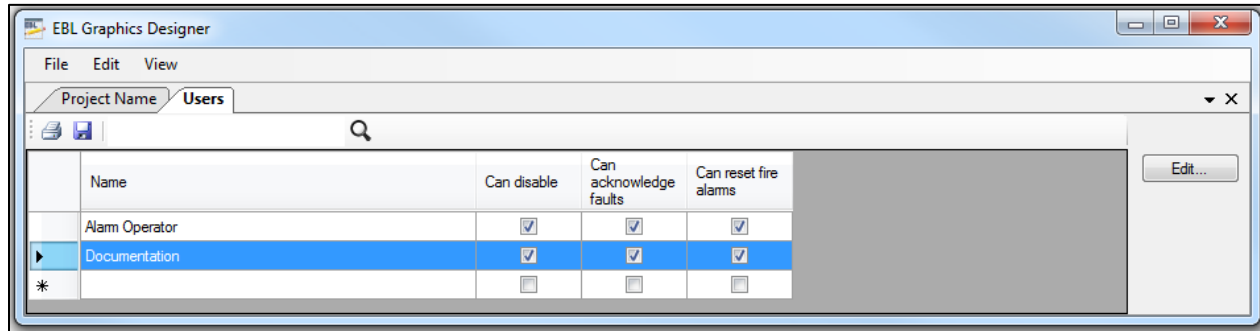
3.9.2. EBL Graphics settings

- **Default screen for drawings** – Used if there are multiple screens connected to the PC
- **Resound at new alarm** – EBL Graphics will give signal at a new incoming alarm
- **Max size of event log** – The number of items that is shown in the event log is editable.

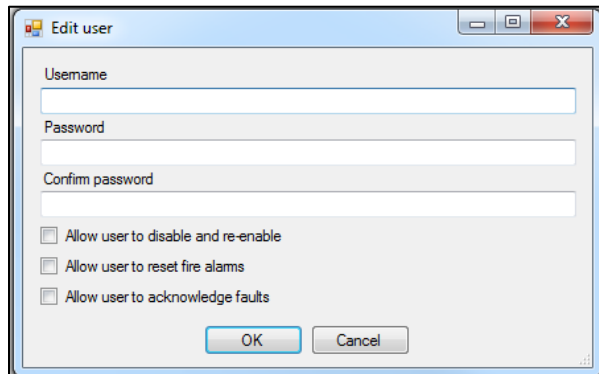
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3.10. USER CONFIGURATION

- Go to **View** menu / **Users**. The user configuration will distinguish different users' authority, whether they can disable units, acknowledge faults, or reset fire alarms.
- Click in the field 'New user'. Write the user name. Press **Enter**.
- Click on the left edge of the row (cell with a small arrow) to make the entire row blue. See the picture below.



- Press **Edit...**
- Fill out the dialog window. Press **OK**.



4. EBL GRAPHICS

4.1. GENERAL DESCRIPTION

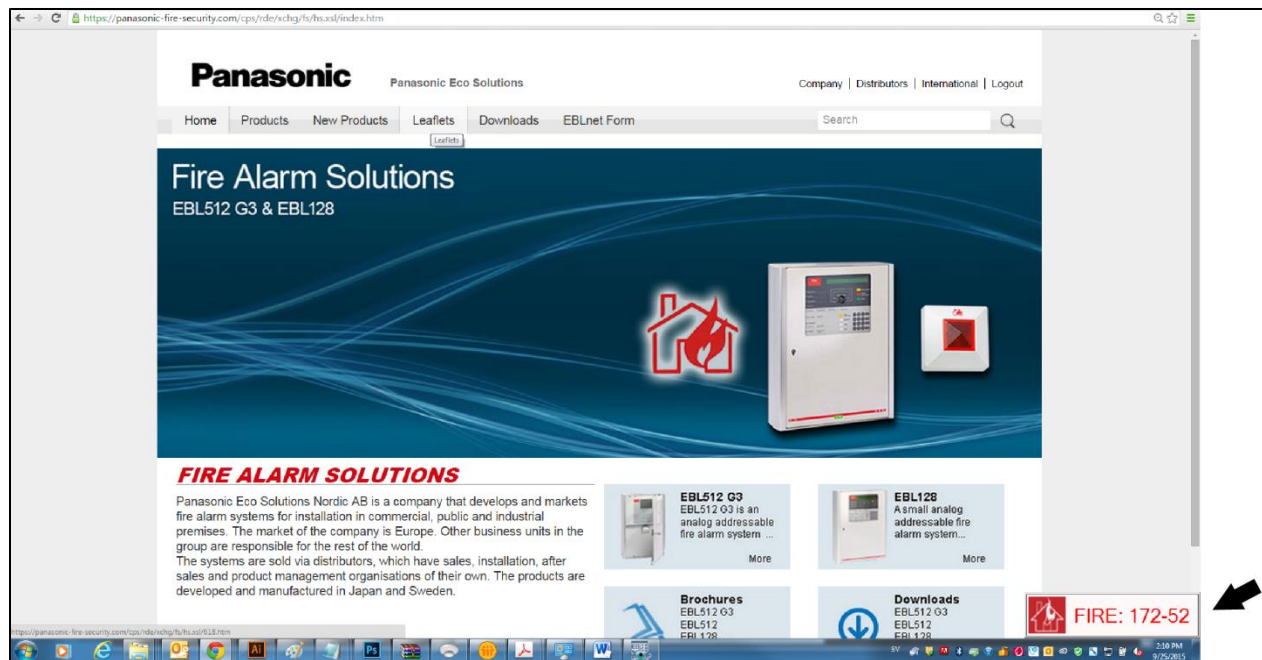
This application provides the functionality to:

- Monitor alarms and disabements on drawings
- Monitor all deviations in the deviations view
- Perform alarm reset and disablement / re-enablement in drawings
- Perform alarm reset, re-enablement, acknowledge faults in the deviations view.

ALERT AT FIRE ALARM

When a fire alarm occurs, the EBL Graphics will alert on the main display of the PC.

No matter what program or webpage is displayed at the moment, the EBL Graphics will break in and a message will be displayed in the lower right corner.

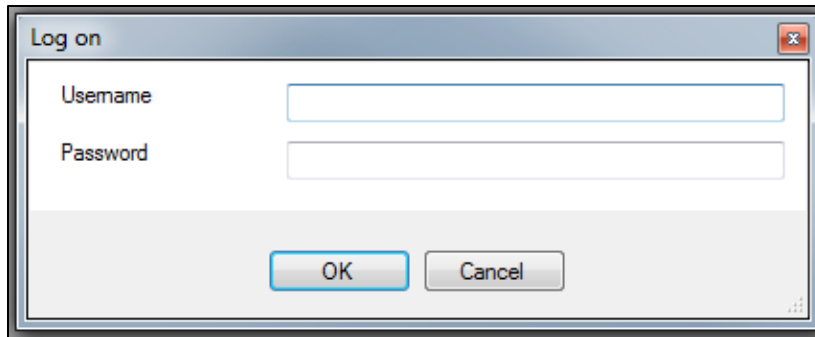


4 EBL GRAPHICS

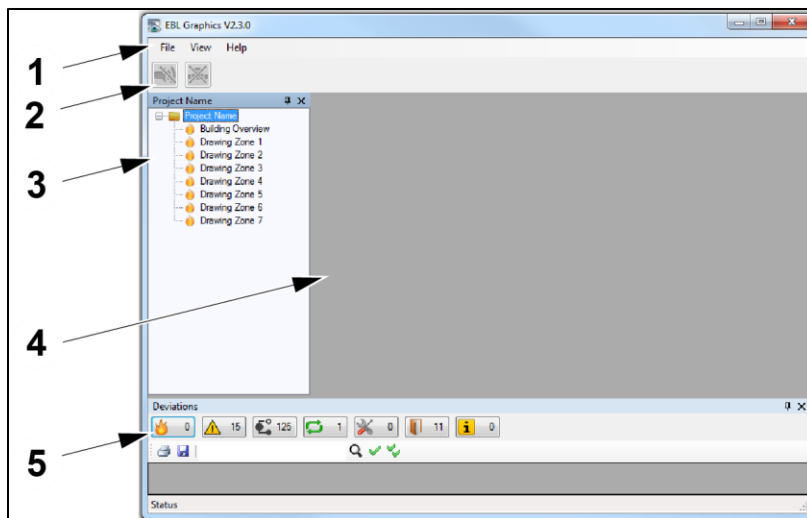
4.2. STARTING UP

When starting EBL Graphics you are requested to open a project xml file created in EBL Graphics Designer.

- a) Choose a project XML file. Press **Open**.
- b) Log on. The user name and password has been set in EBL Graphics Designer.
See section 3.10 USER CONFIGURATION.



- c) The default window layout appears. See below.



- 1) Menu bar
- 2) Tool strip
- 3) Tree view
- 4) Drawing view
- 5) Deviations view

4 EBL GRAPHICS

4.3. TOOL STRIP

NO SOUND 

Press this symbol to silence an active fire alarm. The symbol turns yellow when activated. It is possible to configure it to re-sound at a new incoming fire alarm.

NO CONNECTION 

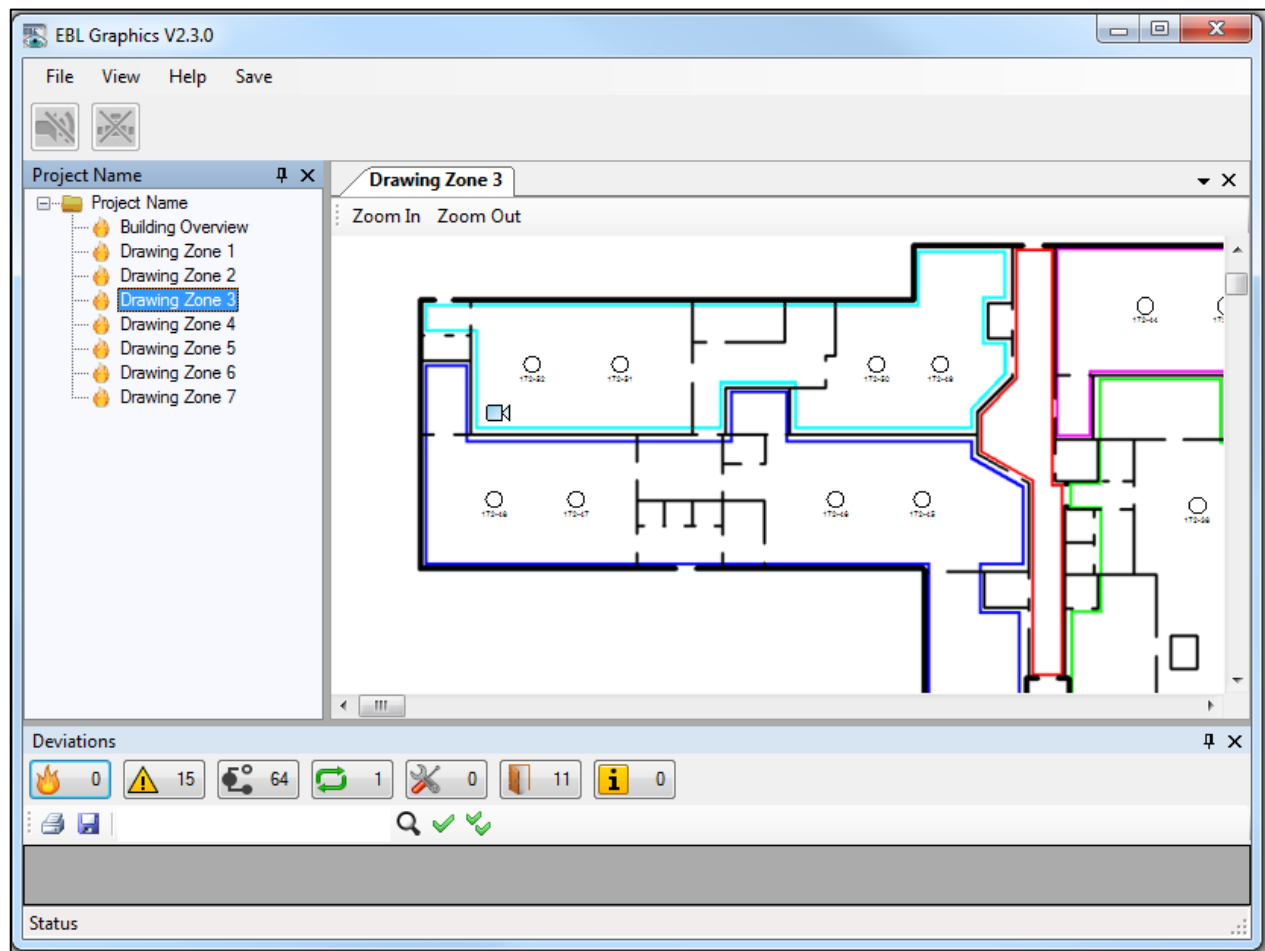
The symbol indicates if the web server connection has failed. The symbol turns yellow when activated.

FIRE ALARM 

This symbol indicates fire alarm state. It is only visible during fire alarm.

4.4. DRAWING VIEW

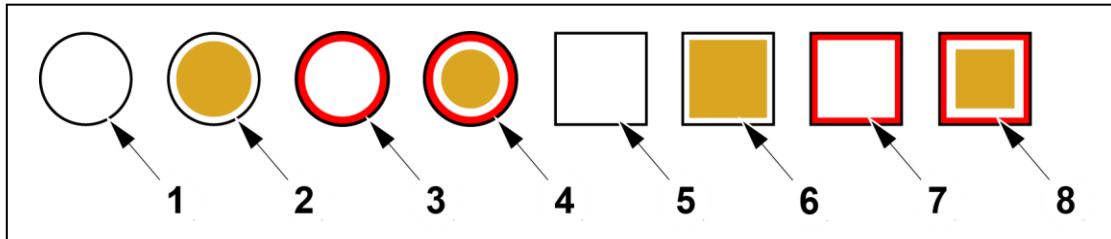
Double click a **drawing node** in the tree view to open a drawing. It is possible to zoom in and out and scroll in a drawing.



4 EBL GRAPHICS

4.4.1. ALARM POINT SYMBOLS

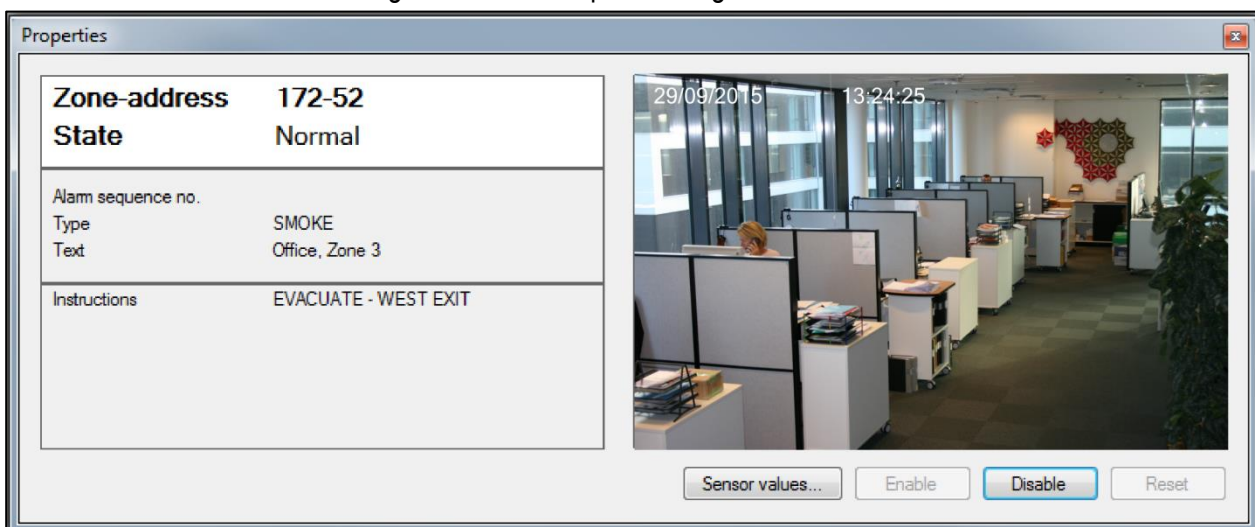
The alarm point symbols on the drawing change their appearance depending on their state. See below.



- 1) Detector – Not activated
- 2) Detector – Disabled
- 3) Detector –Pre-warning (steady) or Alarm state (flashing intermittent)
- 4) Detector – Disabled and Alarm state (flashing intermittent)
- 5) Manual Call Point – Not activated
- 6) Manual Call Point – Disabled
- 7) Manual Call Point – Alarm state (flashing intermittent)
- 8) Manual Call Point – Disabled and Alarm state (flashing intermittent)

4.4.2. ALARM POINT PROPERTIES

- a) Double-click an **alarm point** symbol on the drawing to display the **Properties** window for that alarm point. If there is a network camera connected to this alarm point, the camera view will also be displayed.
 - Zone-address
 - State – Normal / Disabled / Fire Alarm
 - Alarm sequence number – displayed during fire alarm
 - Type – Smoke /Heat / Multi / MCP / Others
 - Text – configured in EBLWin
 - Instructions – configured in EBL Graphics Designer



4 EBL GRAPHICS

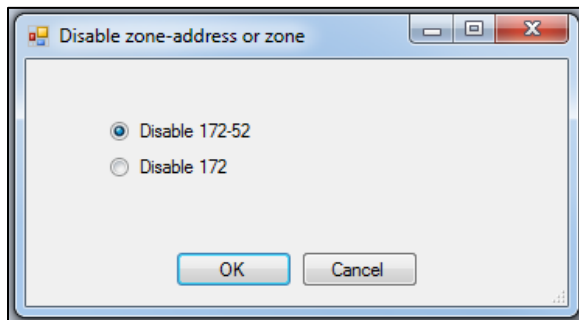
4.4.3. SENSOR VALUES...

Press **Sensor values...** in the Properties window, and the tab `Sensor log, technical number...` will show. The sensor value is logged every 7:th second.

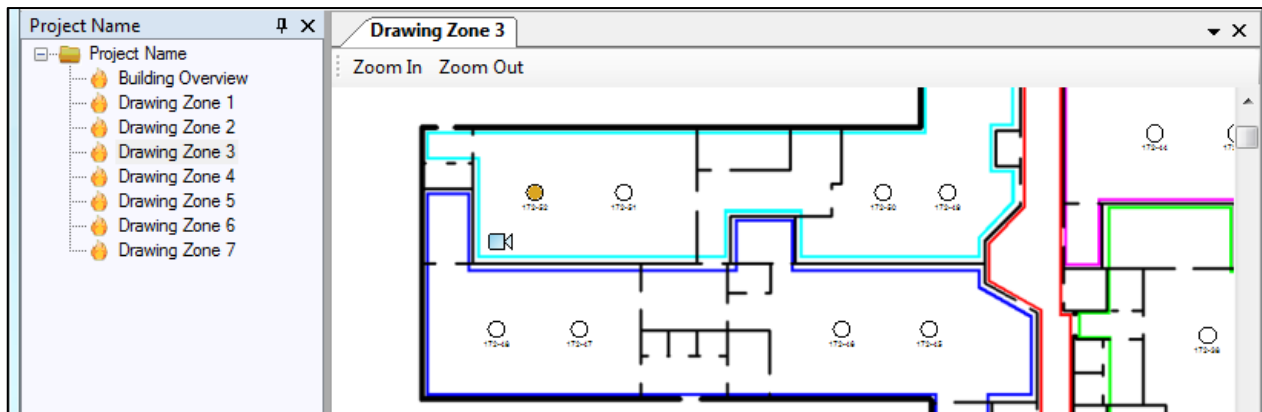
Time	Technical number	Momentary (smoke)	Min (smoke)	Max (smoke)
9/23/2015 2:37:50 PM	051052	0.1	0.1	0.1
9/23/2015 2:37:57 PM	051052	0.1	0.1	0.1
9/23/2015 2:38:04 PM	051052	0.1	0.1	0.1
9/23/2015 2:38:11 PM	051052	0.1	0.1	0.1
9/23/2015 2:38:18 PM	051052	0.1	0.1	0.1
9/23/2015 2:38:25 PM	051052	0.1	0.1	0.1
9/23/2015 2:38:32 PM	051052	0.1	0.1	0.1

4.4.4. DISABLE ALARM POINT IN DRAWING VIEW

- a) Press **Disable** in the Properties window.
- b) In the dialog window, choose to disable the alarm point or the entire zone. Press **OK**.



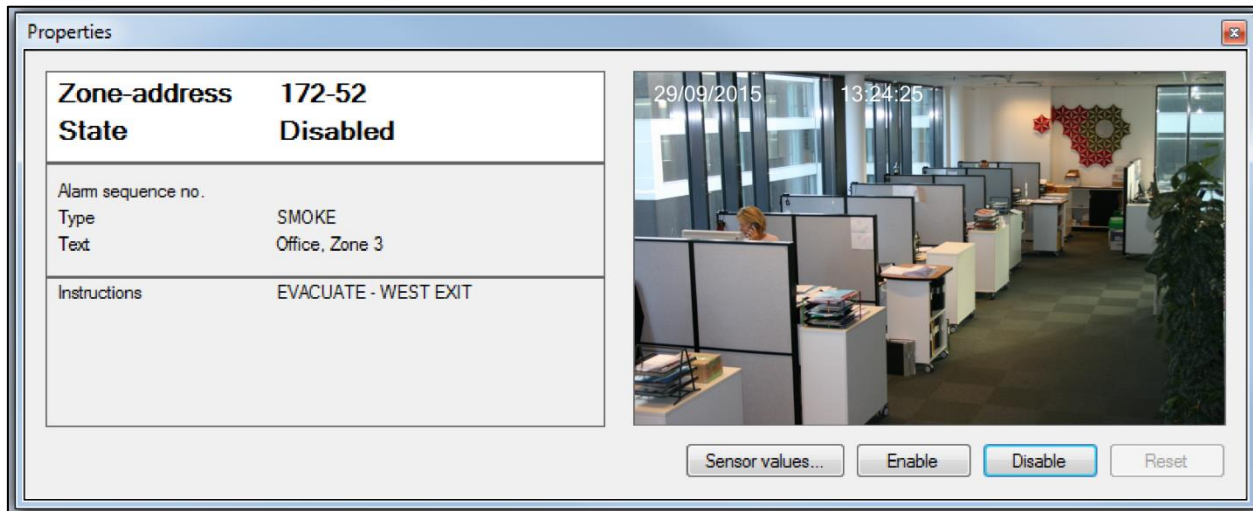
- c) The appearance of the alarm point symbol on the drawing has changed. The Properties window has changed the state to Disabled.



4 EBL GRAPHICS

4.4.5. RE-ENABLE ALARM POINT IN DRAWING VIEW

- a) To re-enable the alarm point, press **Enable**. Press **OK** in the dialog window.

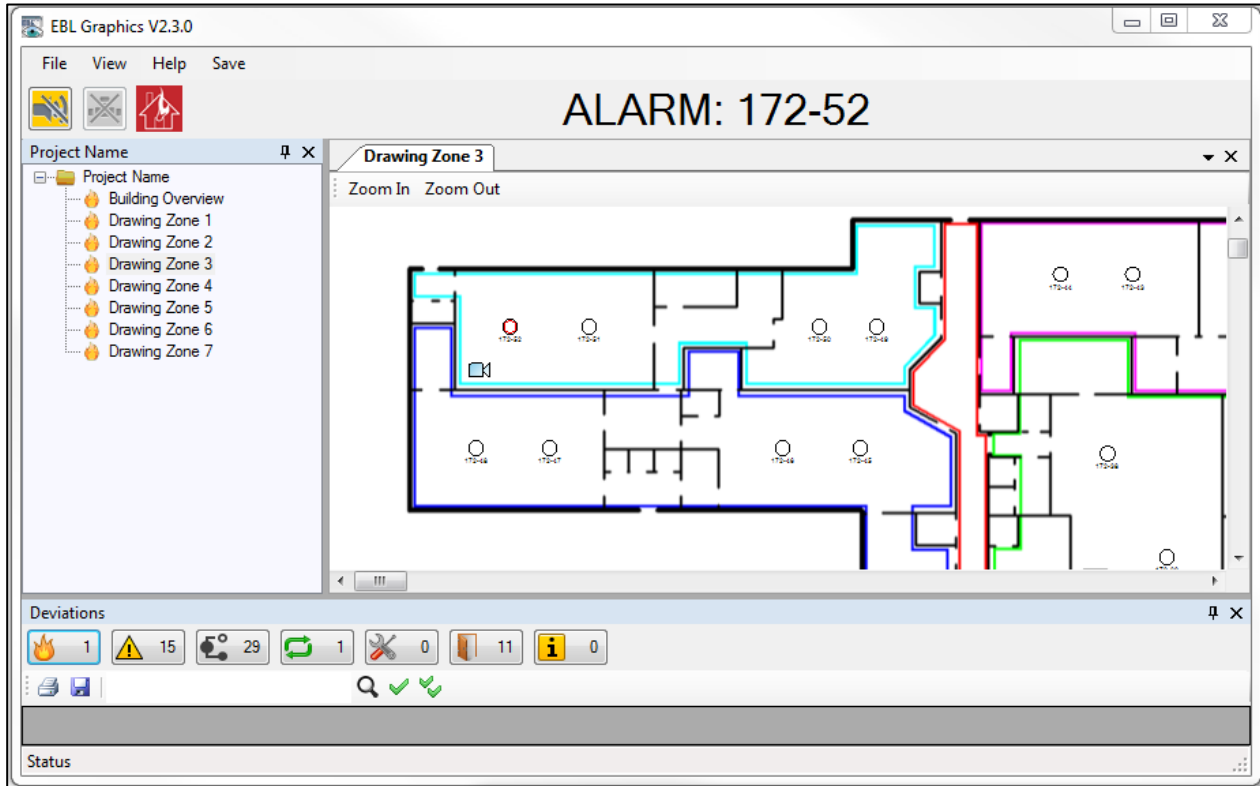


4 EBL GRAPHICS

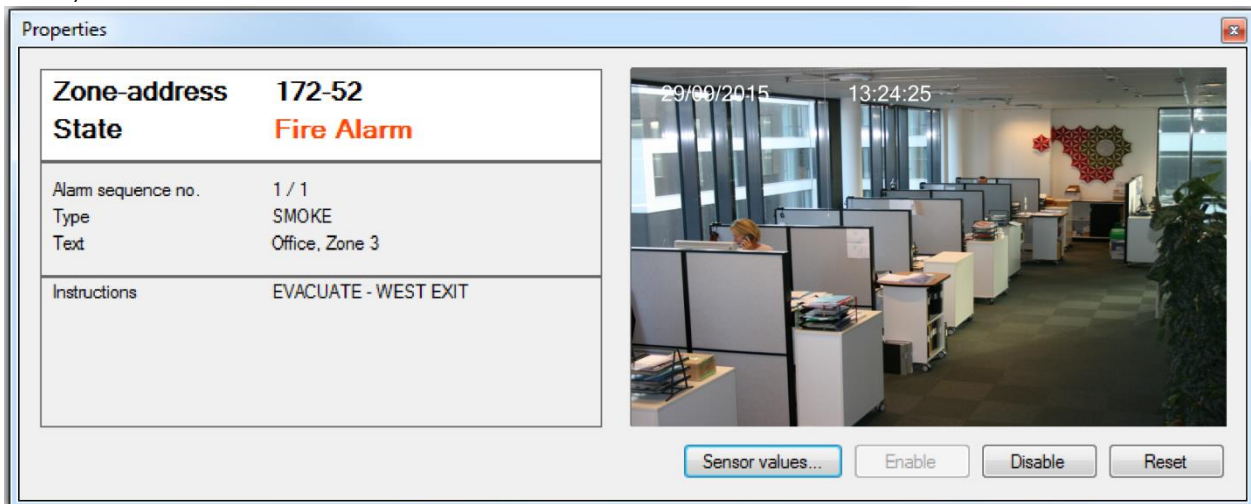
4.4.6. RESET ALARM IN DRAWING VIEW

When a fire alarm has occurred, the alarm point that is in alarm state changes appearance.

- a) Double-click the **alarm point** symbol on the drawing to display the **Properties** window for that alarm point.

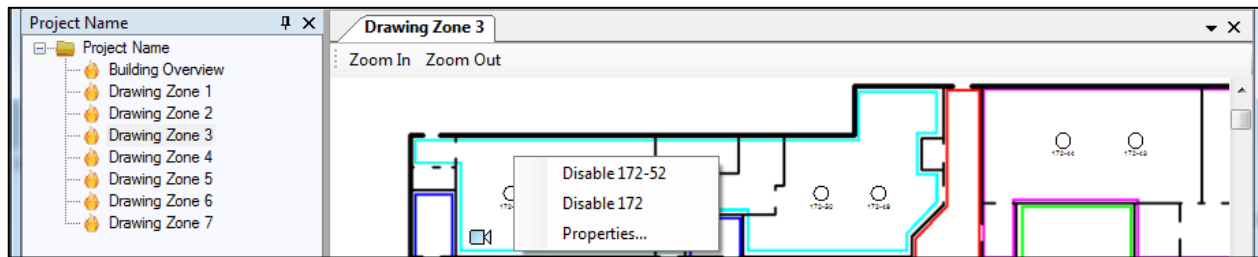


- b) Press **Reset**. Press **YES** to confirm.



4 EBL GRAPHICS

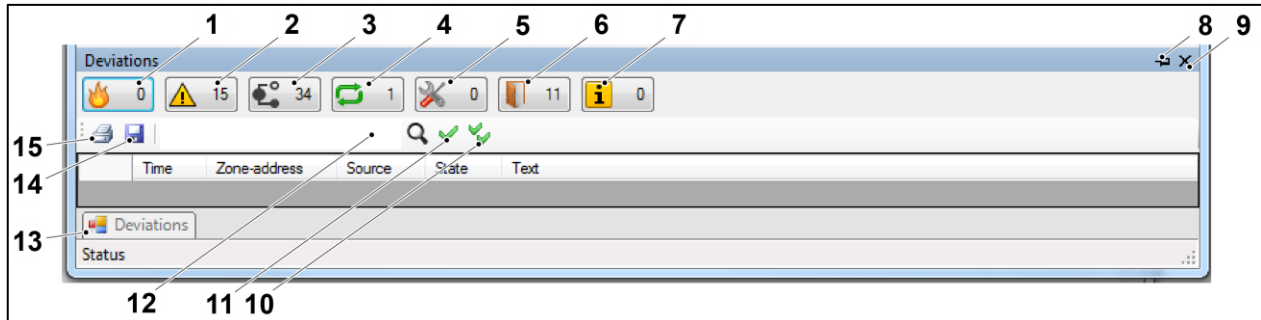
NOTE! It is possible to **right click** on an alarm point symbol to access **Disable** and **Properties**. It is also possible to reset an alarm point if it is in fire alarm state.



4.5. DEVIATIONS VIEW

Select **View** menu / **Deviations** to open the Deviations view. The functionality of the Deviations window is the same as in EBLWin. (See the Planning Instructions for your system.)

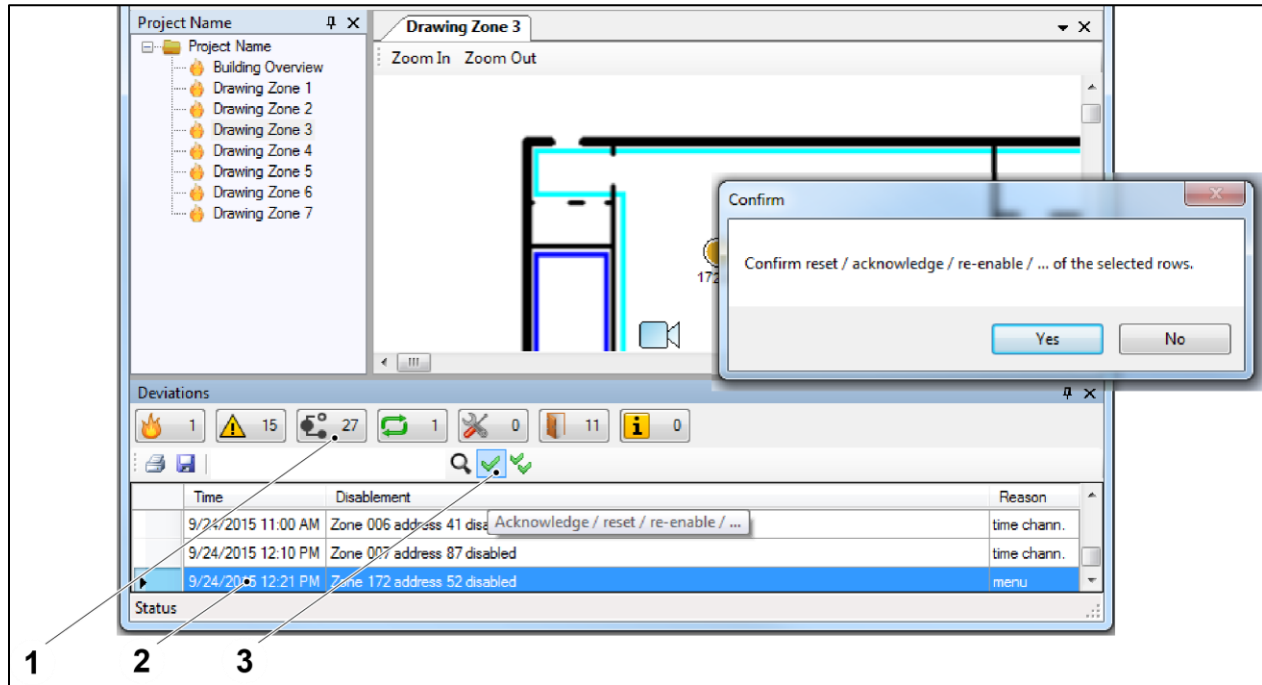
In the Deviations view, it is possible to double click on a row with an alarm point in the list to open the corresponding drawing.



- 1) Fire Alarm
- 2) Fault
- 3) Disablements
- 4) Activated interlocking combinations
- 5) Service signal
- 6) Open doors
- 7) Technical warning
- 8) Auto Hide – Closes automatically the Deviations view
- 9) Close
- 10) Acknowledge / reset / re-enable all
- 11) Acknowledge / reset / re-enable selected
- 12) Search
- 13) Deviations tab (Used in Auto Hide mode)
- 14) Save
- 15) Print

4.5.1. RE-ENABLE ALARM POINT IN DEVIATIONS VIEW

- a) Select **Disablesments** (1).
- b) Select the disabled alarm point in the **list** (2).
- c) Press **re-enable** (3).
- d) Press **YES** in the dialog window to confirm.

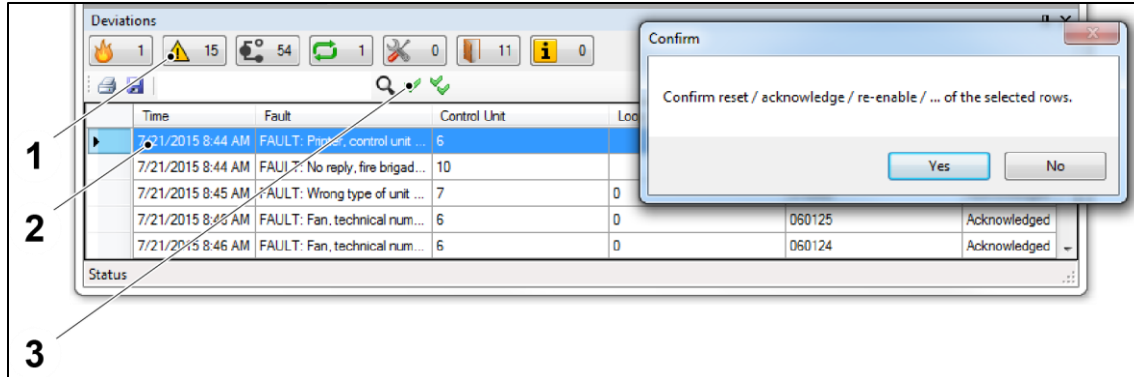


- 1) Disablesments
- 2) List
- 3) Acknowledge / reset / re-enable

4 EBL GRAPHICS

4.5.2. ACKNOWLEDGE FAULTS IN DEVIATIONS VIEW

- a) Select **Faults** (1).
- b) Select the alarm point which is in alar state in the **list** (2).
- c) Press **Acknowledge** (3).
- d) Press **YES** in the dialog window to confirm

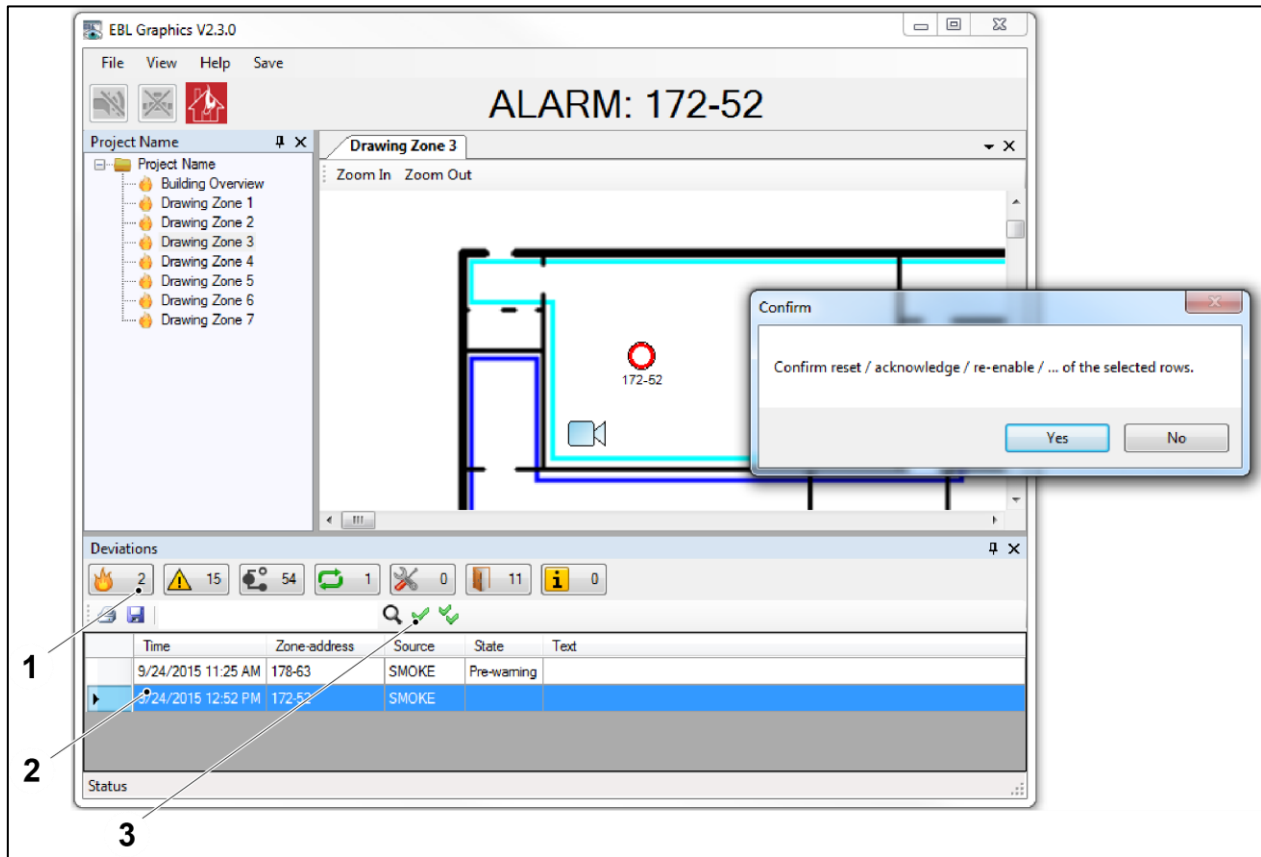


- 1) Fire Alarm
- 2) List
- 3) Acknowledge / reset / re-enable

4 EBL GRAPHICS

4.5.3. RESET ALARM IN DEVIATIONS VIEW

- a) Select
- b) Select the alarm point which is in alar state in the list (1).
- c) Press **reset** (2).
- d) Press **YES** in the dialog window to confirm

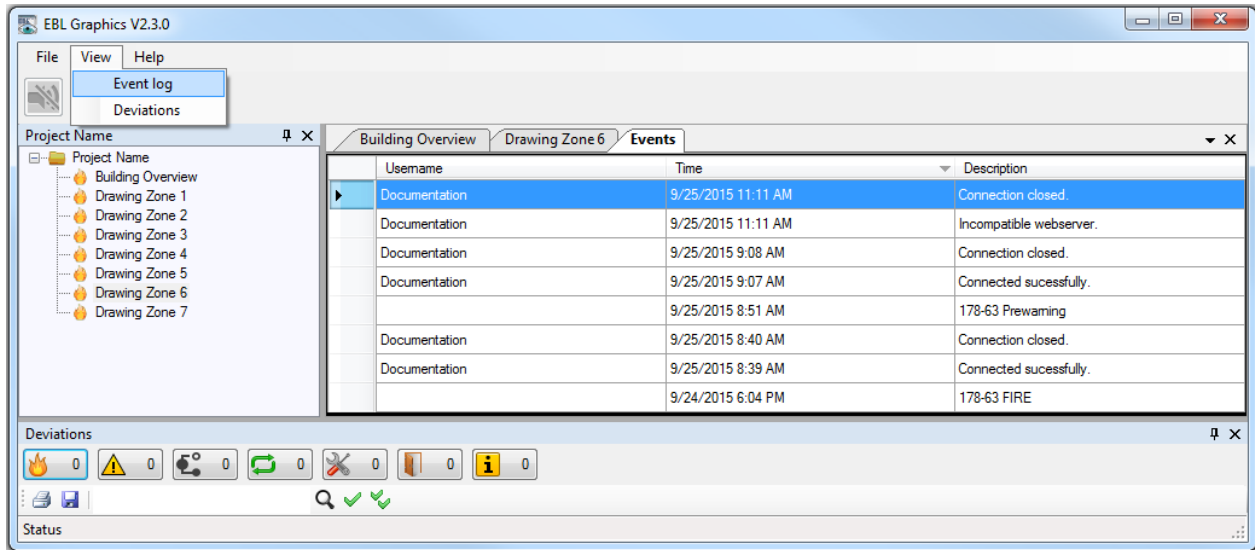


- 4) Fire Alarm
- 5) List
- 6) Acknowledge / reset / re-enable

4 EBL GRAPHICS

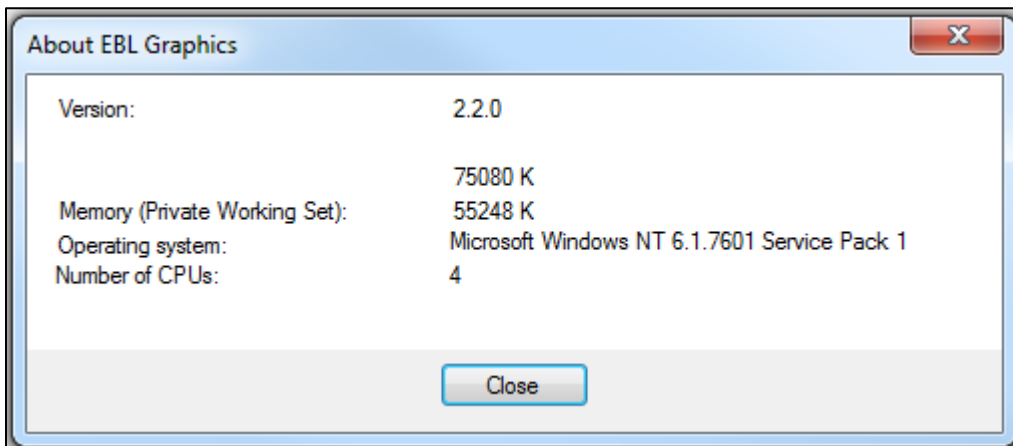
4.6. EVENT LOG

Go to **View** menu / **Event log** to see a list with all events in the system. The number of events shown in the list is configured in EBL Graphics Designer.



4.7. ABOUT EBL GRAPHICS

Go to **Help** menu / **About...**The dialog window show information about EBL Graphics.



5. TECHNICAL DATA

Hardware	1598 - Web-server II
Hardware	1594 - EBLWin key (Used during configuration)
EBLnet license	1597 - Valid
Web-server software:	EBLWeb for EBL512 G3: v. 1.1 v. 2.7 "United" v. 2.0 v. 2.1 v. 2.2 v.2.3
Configuration	EBL Graphics Designer
Operating System	Windows ≥ Vista