Honeywell
GENT

User instructions

Mimic Configuration Tool

for Mimic Panels having Mark 4 Master Repeat Card



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Preface

This is the second issue of the user instructions for the Mimic Configuration Tool V1.0.

Associated documents

4188- 945 Vigilon A3 Mimic panel
- Data and installation

Conventions

This is a note to highlight important text that is normally hidden in the main text.

This is either a caution to prevent damage to the equipment or a warning to inform of dangerous conditions that may result in injury or death.

Abbreviations

LED - Light Emitting Diode
MRC - Master Repeat Card

Mimic Configuration Tool

This Mimic Configuration tool can be used to program the LED illuminations on an A3 Mimic panel (Gent code number: VIG-MIM-A3) and A2 mimic panels having Mark 4 Master Repeat Card.

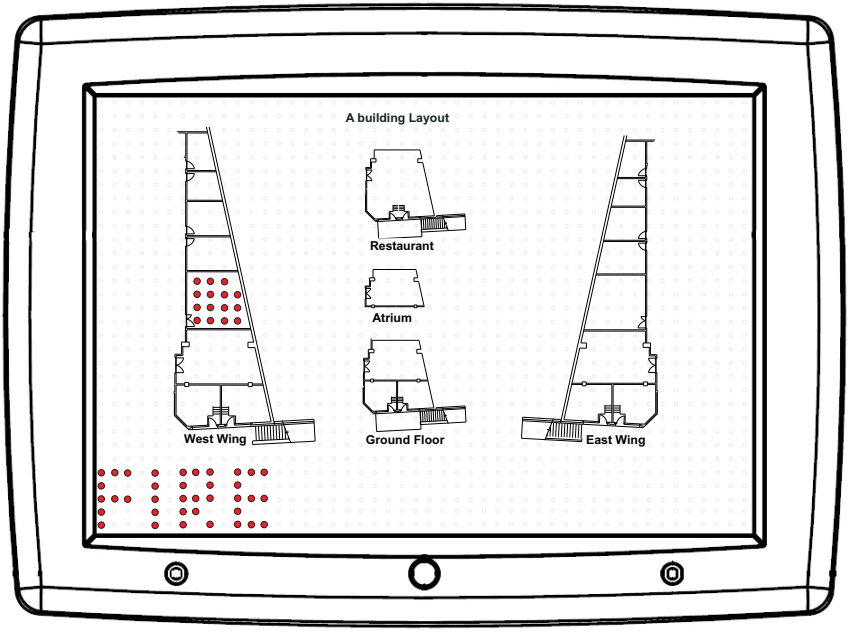
The tool allows a variety of illuminations to be configured on a Mimic panel, to announce events of fire, fault and supervisory in the connected fire detection and alarm system. The Mimic panel is configured using this tool off-line or whilst it is still connected to a loop circuit of the fire alarm system to give the required illuminations.

Application of Mimic illuminations

A mimic panel is primarily used to indicate fire event(s) that are detected in the fire alarm system by illuminating LEDs behind an overlay plan fitted inside a mimic panel. The plan is usually a layout of a building or areas within the building. The following examples show the A3 Mimic panel.

Typical uses

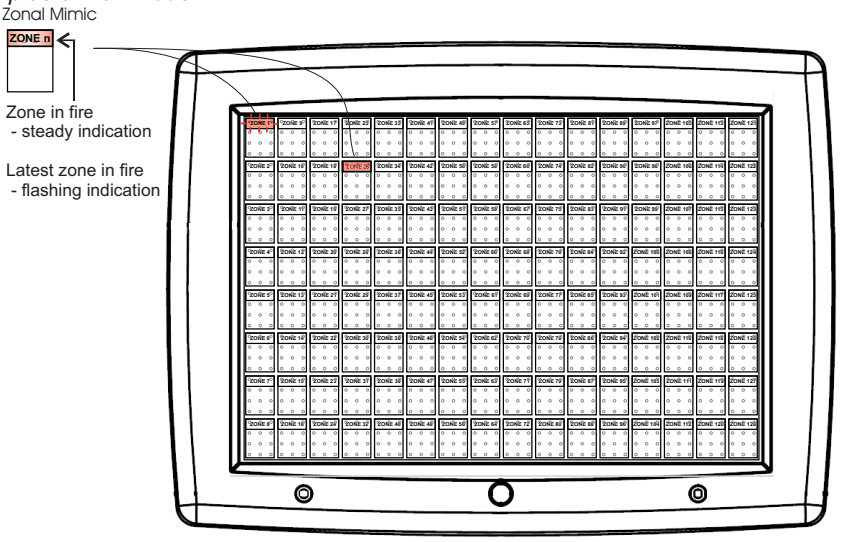
- ☐ The fire event illuminations at a mimic panel allows responsible persons and firefighters to see pictorially where in a building/area fire event(s) were detected.



- ☐ The fault event illuminations at a mimic panel allows the people responsible for site maintenance to see pictorially the parts of the fire detection and alarm system requiring attention.
- ☐ The supervisory event illuminations at a mimic panel can be used as an indicator of the status of plant equipment.

☐ A Standard Zonal Mimic panel

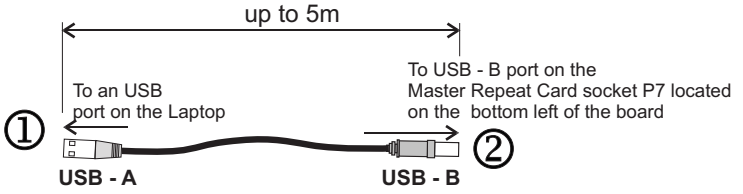
Examples of illumination

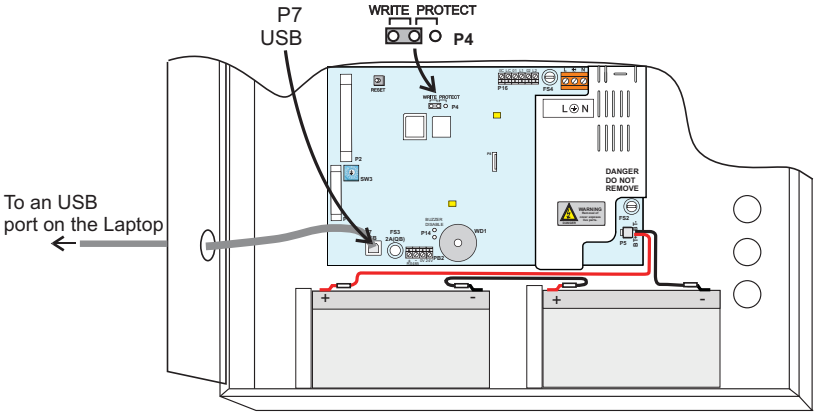


Which Mimic panels can be configured

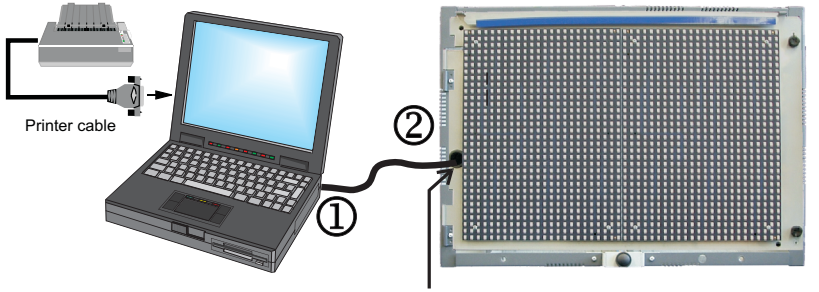
This Mimic Configuration tool can be used to program the LED illumination on an A3 Mimic panel (Gent code number: VIG-MIM-A3) and A2 mimic panels having Mark 4 Master Repeat Card.

How to connect the Mimic Configuration Tool





A view of the A3 mimic panel with the inner door open.



Ensure the USB - B connector is inserted through this hole
before connection to USB socket P7 on the Master Repeat Card.

How to determine which USB port is used

At the computer select:

- ☐ Start-> Settings -> Control panel -> System -> and click on the ‘Hardware' tab
- ☐ Select 'Device Manager' and expand Ports (COM & LPT) and determine the USB serial port that is being used to connect to the A3 Mimic panel.

Mimic Configuration Tool software

The software can be downloaded from the Gent Expert forum (www.gentexpert.co.uk). The website is accessible to Gent System Integrators who have registered. The registration is by clicking on the 'registration link' and by following the on screen instructions.

Download the Mimic Configuration tool software from Gent Expert to a location on your computer and note the directory where the downloaded software is stored.

How to install the Mimic Configuration tool

The Mimic Configuration tool software can run on most laptops or PCs having Windows XP or Vista.

Loading the tool for the first time

When loading the Mimic Configuration Tool software use Windows Add /Remove program in the Control Panel:
START -> Settings -> Control Panel -> Add or Remove Programs

Follow the on screen instructions to add the Mimic Configuration Tool program.

Up-grading or Down-grading the Mimic Configuration tool program

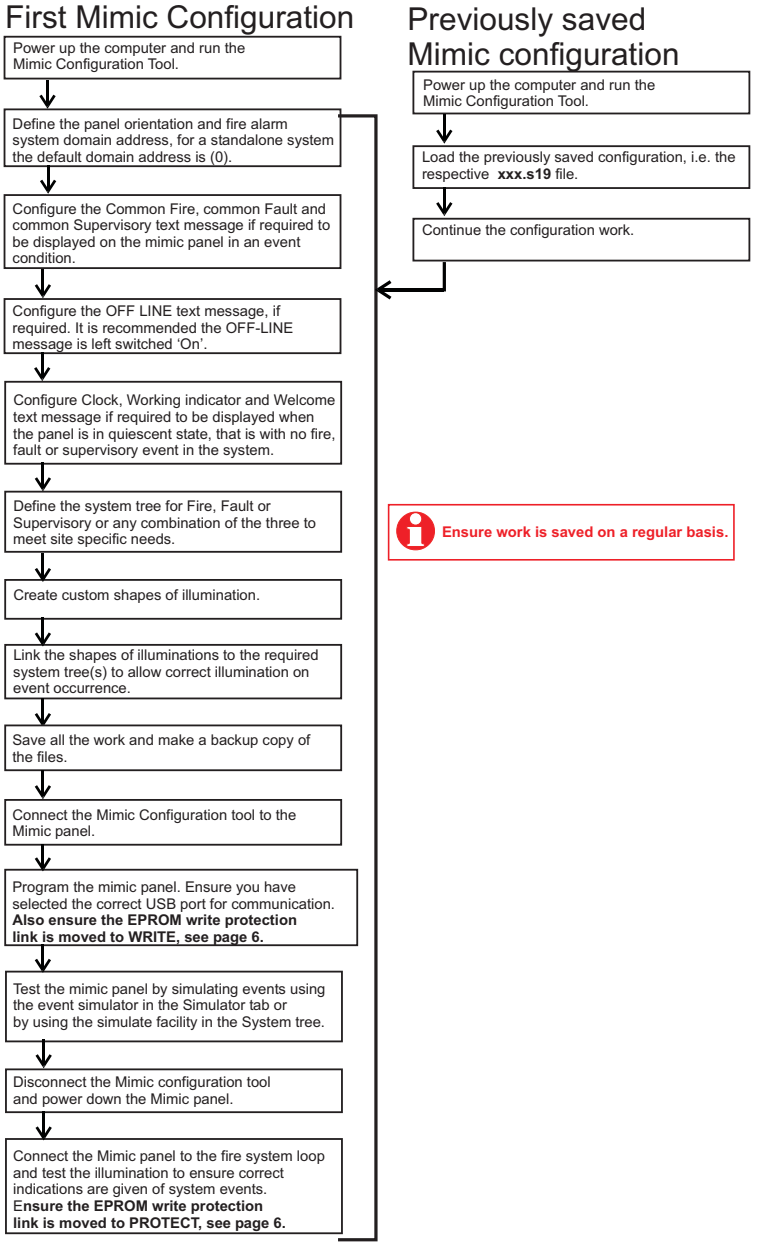
It is very important to first remove the Mimic Configuration tool program on your computer before loading the up-grade or down-grade version of the Mimic Configuration Tool software.
START -> Settings -> Control Panel -> Add or Remove Programs

Scroll through the currently installed programs to find the Mimic Configuration Tool program.

Select the Mimic Configuration Tool program and click on the **change/remove** button.

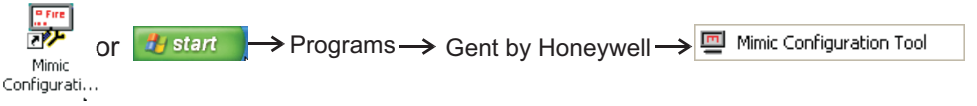
Follow the on screen instructions and once the previous program is removed you can load the upgrade or downgrade by following the procedures for *'Loading the tool for the first time'*.

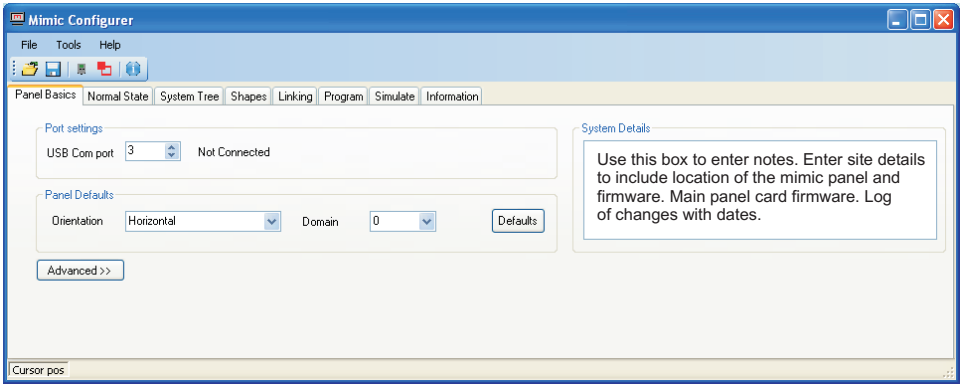
The mimic configuration process



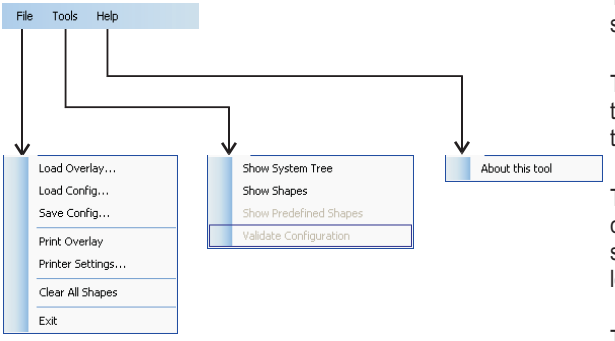
Starting the Mimic Configuration Tool

You can start the mimic configuration tool by clicking on the icon or by selecting it from the windows programs menu.





Menu bar



The menu bar allow a means of selecting some options from the drop down menu.

The print overlay option is used to print the site plan that is imported into the tool for creating complex shapes.

The 'Clear All Shapes' must be used with caution as it will clear all user defined shapes, so any unsaved work will be lost.

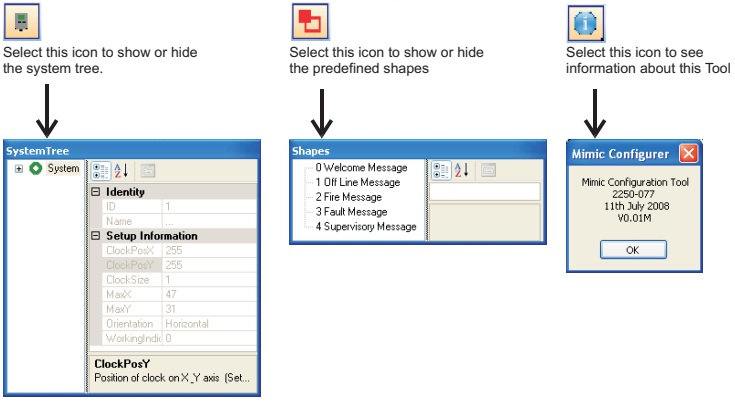
The Exit option is used to close the Mimic Configuration Tool.

The 'Load Overlay' option is used to load a bitmap file of a siteplan which is superimposed on the 'Create Custom Shapes' over an LED grid dialog box. This allows selection of LEDs to be illuminated and shapes created to be saved as new shapes, for details see page 17.

It is important for the bitmap file to be created from an A3/A2 page having a page boundary line, depending on the size of the panel. This is done to ensure the layout plan fits the custom shape LED matrix.

Toolbar icons

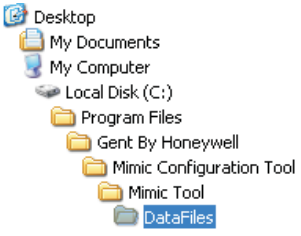
At any time you can call up the floating dialogue boxes of 'System Tree' and 'Shapes'. The information icon provides version information of the Mimic Configuration Tool.



Saving the work to a file

On selecting the '**Save Config..**' option from the **file** menu or by clicking the save  icon on the toolbar the tool **datafiles** directory is opened up to allow you to save the work to a file.

`C:\Program Files\Gent By Honeywell\Mimic Configuration Tool\Mimic Tool\DataFiles`



Here you can store all the Mimic configuration work files. The tool produces a **.S19** file and **.cfg** file which is used by the Mimic Configuration Tool.

If you have more than one copy of configuration file for a mimic panel saved as configuration is developed, then it is a good idea to extend the filename by giving it a suffix or prefix having an incremental number or letter for traceability.

It is a recommended that you save the work done on a regular basis, usually every 15 minutes or more frequently if necessary.

Loading a previously saved work

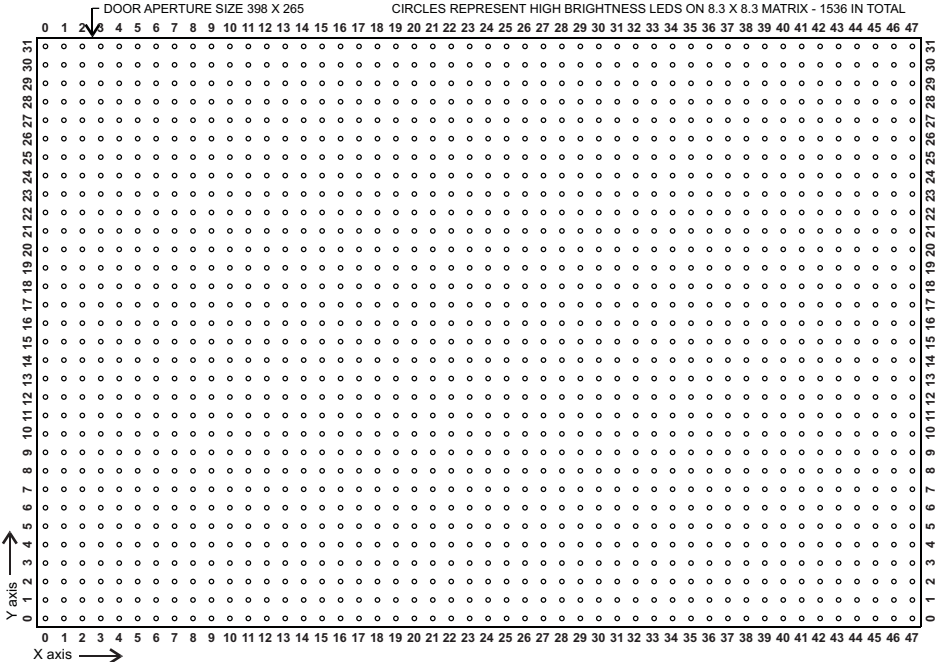
A previously saved configuration file can be recalled to continue configuration or to make changes to existing configuration.

On selecting the '**Load Config..**' option from the **File** menu or by clicking the load  icon on the toolbar the tool **datafiles** directory is opened up to allow you to select the required **xxxxxx.S19** file.

`C:\Program Files\Gent By Honeywell\Mimic Configuration Tool\Mimic Tool\DataFiles`

X and Y LED coordinates explained

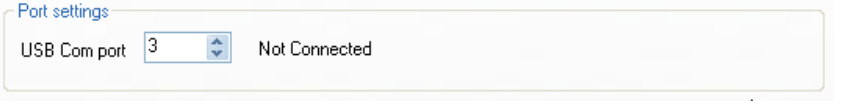
The following is an example of the LED matrix of an A3 Mimic panel. The bottom left location of the Mimic LED array is X=0 and Y=0.



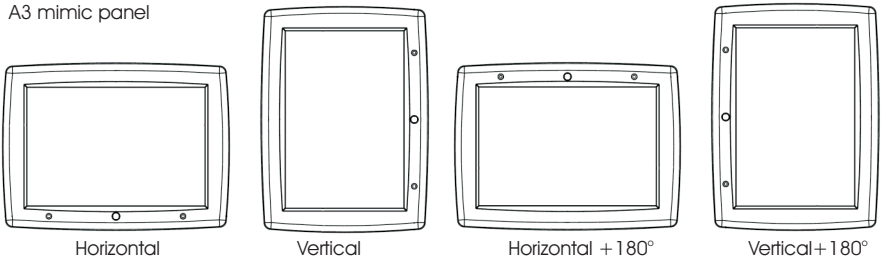
Panel basics

Select the USB COM port

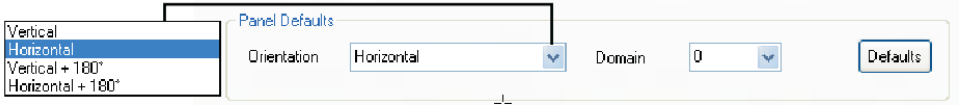
Scroll the port numbers to select the USB COM port that is being used to connect to the Mimic panel, see page 6 for details. The Mimic Configuration Tool is communicating to the Mimic panel when **'Connected'** message appears next to the port selection.



How to set up the panel orientation and system domain address

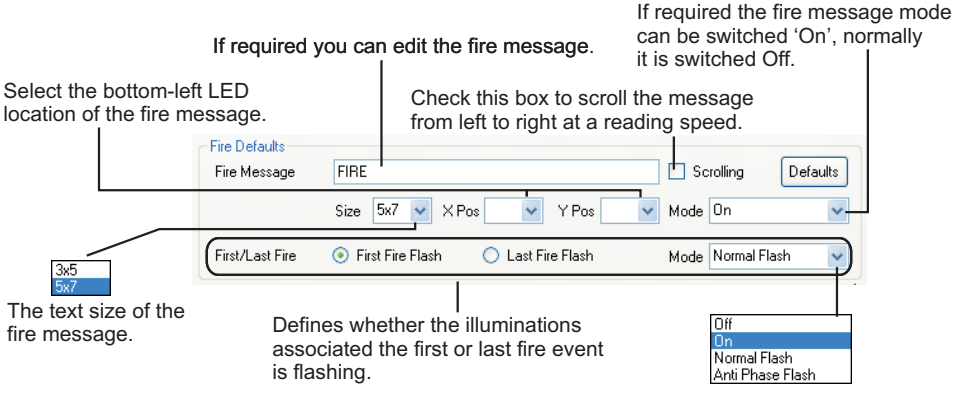


The default is the horizontal orientation and domain is address 0. The domain address of the system can be found by looking at the Control panel [Status] of the Main Controller Card (Card 0) within the [Info] menu.



How to set up the common FIRE message

The fire text message by default is switched OFF, however when ON it reads 'FIRE', but can be edited to a long text message.



How to set up the common FAULT message

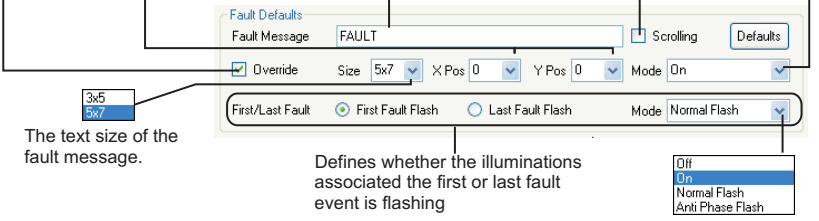
Checking the 'Override box' will cause the fire indications to override fault indications, ie the fault indications are hidden.

If required you can edit the fault message.

If required the fault message mode can be switched 'On', normally it is switched 'Off'.

Select the bottom-left LED location of the fault message

Check this box to scroll a long message to the left at a reading speed.



The text size of the fault message.

Defines whether the illuminations associated the first or last fault event is flashing

How to set up the common SUPERVISORY message

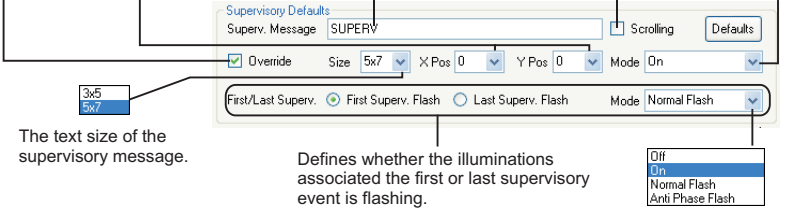
Checking the 'Override box' will cause the fire and fault indications to override supervisory indications, ie the supervisory indications are hidden.

If required you can edit the supervisory message.

If required the message mode can be switched 'On', normally it is switched 'Off'.

Select the bottom-left LED location of the supervisory message.

Check this box to scroll a long message from left to right at a reading speed.



The text size of the supervisory message.

Defines whether the illuminations associated the first or last supervisory event is flashing.

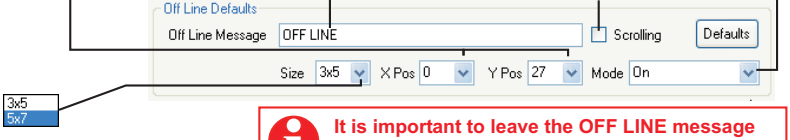
How to set up the OFF LINE message

The OFF LINE message mode is normally 'On' and may be switched 'Off', see note below.

If required you can edit the OFF LINE message.

Select the bottom-left LED location of the OFF LINE message.

Check this box to scroll a long message from left to right at a reading speed.



The text size of the OFF LINE message.

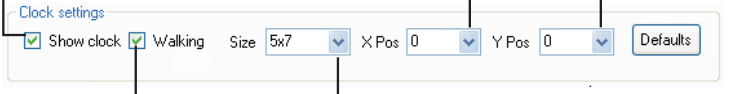
It is important to leave the OFF LINE message switched 'On', as it is a visual indicator when the Mimic panel is not communicating with the loop circuit of the fire alarm system.

Normal State

How to set up Clock

Check this box if you want the clock to be displayed.

Select the bottom-left LED location of the Clock.



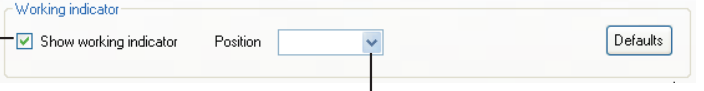
Check this box to allow the clock to move position to minimise the possibility of LED burnout that can be caused by the clock remaining 'On' in the same location.

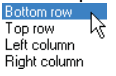


The size of the clock display.

How to setup a working indicator

Check this box if the mimic panel working indicator is required.





Select the required row or column for the LEDs to be lit one at a time to show the panel is working.

How to set up a Welcome message

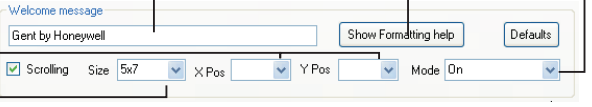
Check this box to scroll a long welcome message from left to right.

If required you can edit the welcome message.

If required the welcome message mode can be switched 'On', normally it is switched 'Off'.

Select the bottom-left LED location of the welcome message.

Shows special format control codes.





The size of the text welcome message.

System Tree

The system tree is used to define the domain, panel, zone, loop, devices, channels, command builds and cards for the purpose of linking shapes of illumination at the Mimic panel in event condition(s).

Events such as fire, fault and supervisory have their own defined 'system tree', these can be for either standalone system or a networked system.

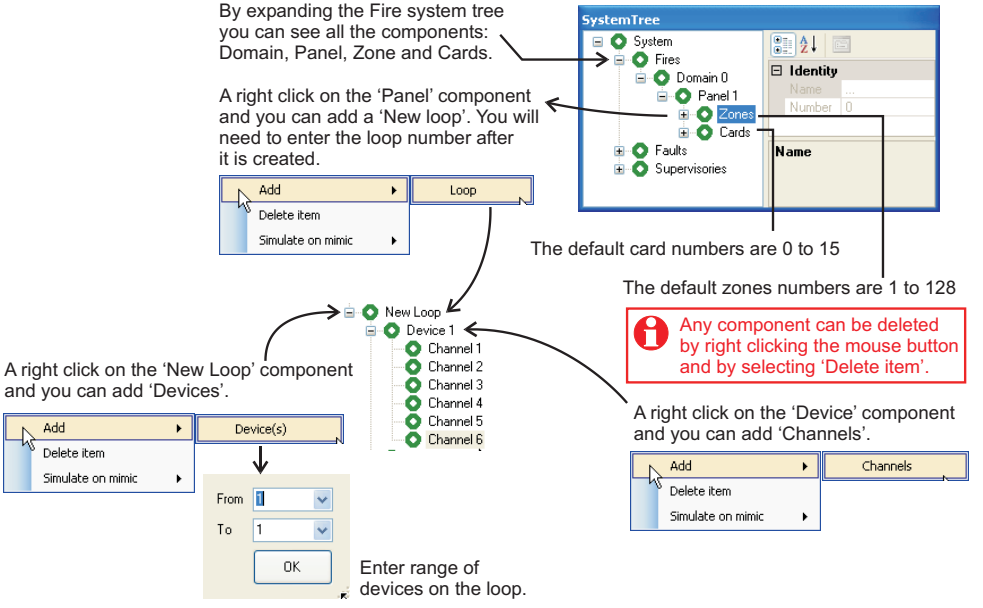
Defined LED shapes are linked to the respective part of the system tree. When there is an event in the system the status of the component will change and the linked LED shape will illuminate. The illumination of LEDs behind the site plan on the mimic panel pictorially identifies the location of the event.

How to determine what components are required in the system tree

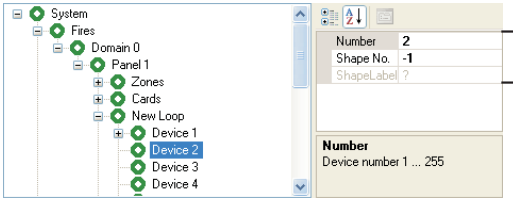
You will need to decide areas covered by the Mimic panel and the location of the panel installation. You will also need to decide which event indications are required, Fire, Fault or Supervisory or any combination of the three event types.

To construct the system tree you will need to know details of the standalone system or networked systems configuration. This information can be easily determined from the site specific drawings of a new system. Additionally the system information can be determined by viewing the site files in the commissioning tool or by viewing the [info] menu at the fire control panel.

How to define a Fire system tree



How to view configuration of components in the system tree



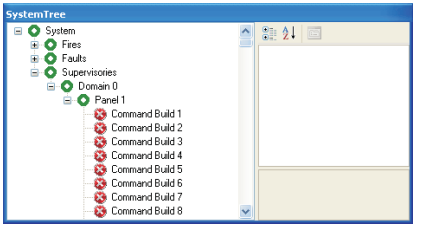
Shows the configuration information associated with the selected component of the System tree.

How to define a Fault system tree

The 'Fault system' tree is constructed in a similar manner to the 'Fire System' tree.

How to define a Supervisory system tree

The Supervisory system tree is slightly different as there are no components to add, it defaults with 1-255 command builds.



The identity data is the similar to that described for a device.

Shapes

Any defined pattern of indication can be applied to the components of the System tree for the purpose of illuminating shape(s) in designated area on a mimic panel.

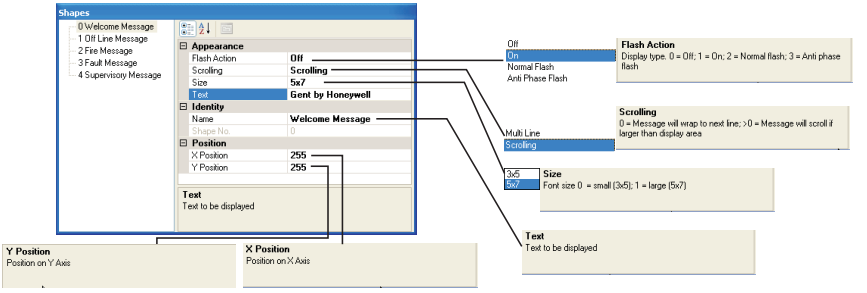
LED OFF, On and flashing actions

The action of an LED can be configured for Off, On, Normal flash or Anti-phase flash.

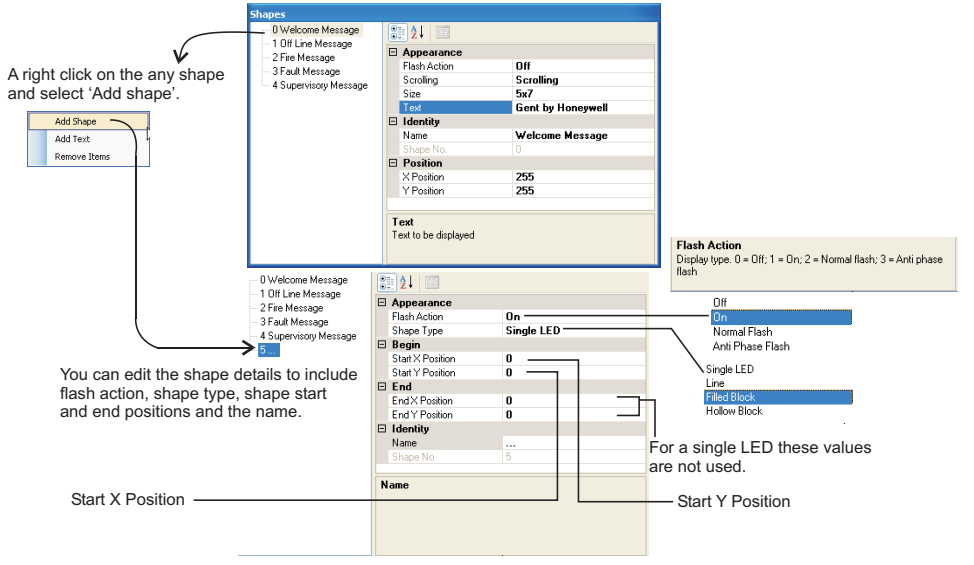
- Off action - LED will switch Off.
- On action - LED will switch On.
- Normal flashing - LED will flash
- AntiPhase flashing - LED will flash Anti Phase, opposite to normal flash

Pre-defined text messages

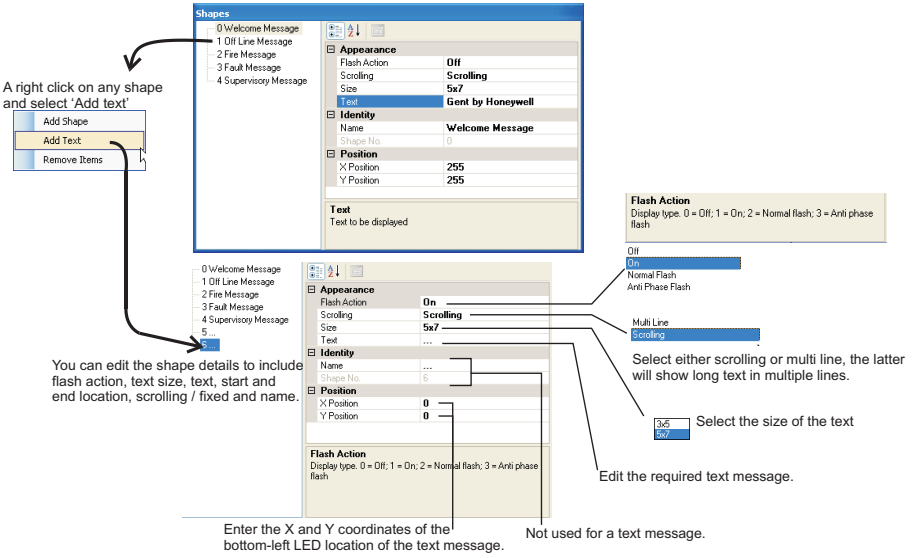
The shapes 0 to 4 are text messages configured in 'Panel Basics', they can be redefined here if required. The illustration below shows the welcome text message.



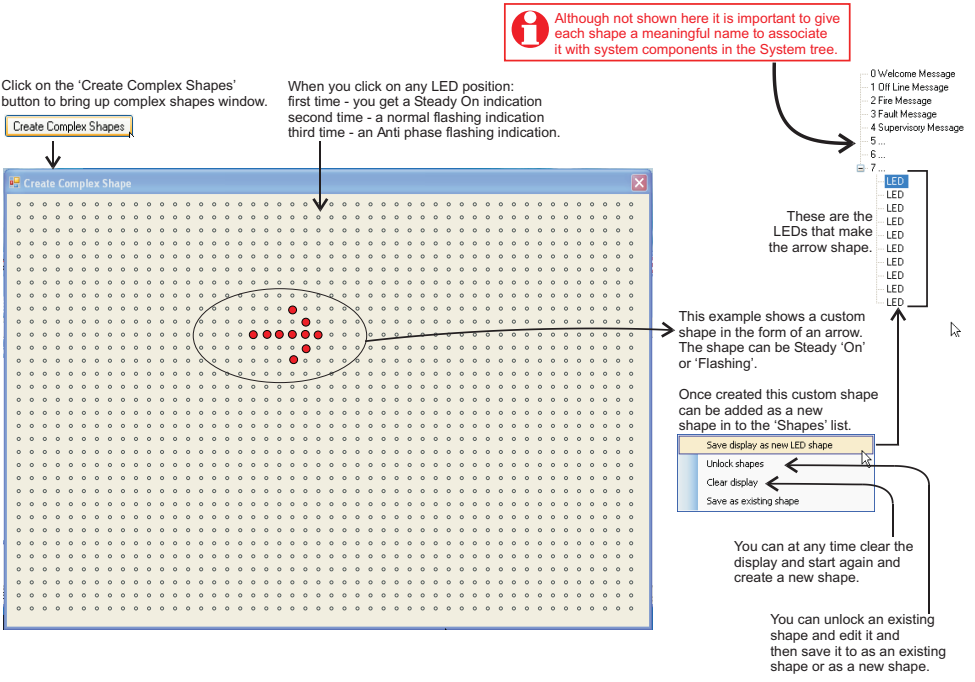
How to create a standard shape



How to create a text message



How to create complex shapes



How to create and use an overlay file for the Mimic Configuration Tool

When the overlay plan is complete you should save it to another file and create a border around the page boundary and then export/save the drawing to a (**.bmp**) bitmap file.

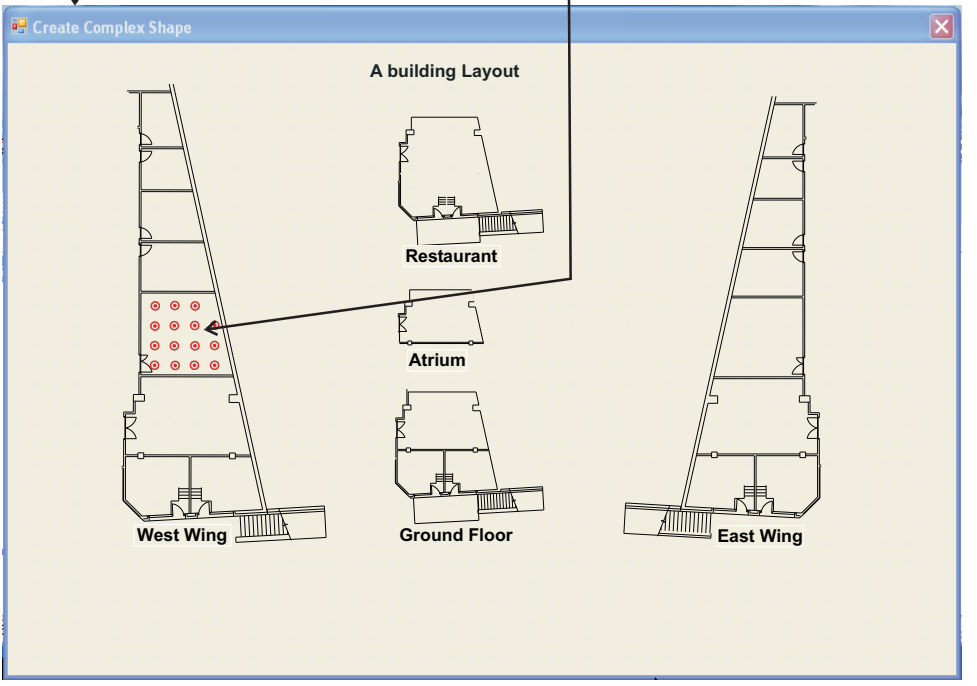
Click on the 'File' menu and select 'Load Overlay' and then browse and select a **.bmp** file (bitmap file).

The .bmp file must be of the entire area covering the boundary of the page.

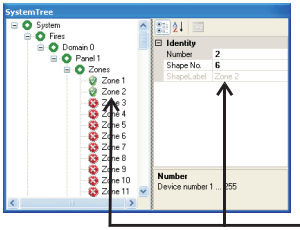
Click on the 'Create Complex Shapes' button to bring up 'Create Complex Shape' window.

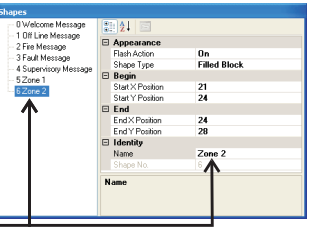


You can now define the custom LED shape and save it as a new shape. The example here shows a shape that can be linked to a zone.



How to give shapes identity

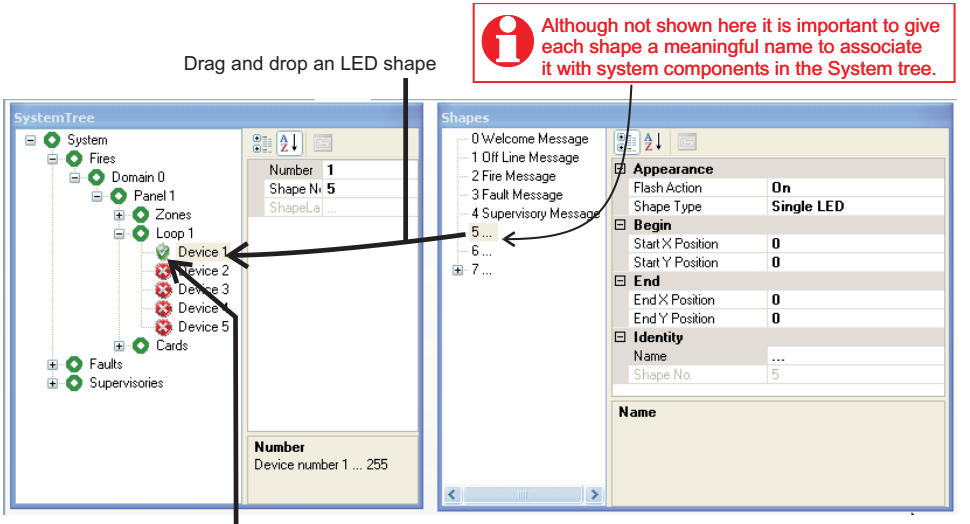




Here you can see a Filled Block shape is given a name 'Zone 2' to form an association with 'Zone 2' in the System tree.

Linking

How to link shapes of illumination to the system tree



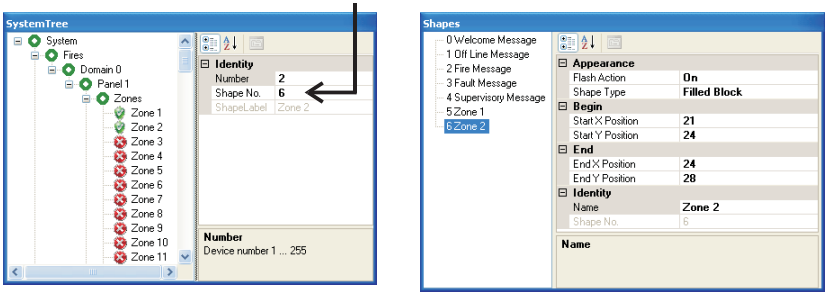
Drag and drop an LED shape onto a component such as a device, channel or panel.
If it is a device being configured then notice the device icon changes from red circle with white cross to green icon with a white tick to indicate the device has been configured.

Shapes can be linked to **panels, cards, zones, devices and channels** for system fire and fault events.

Shapes can also be linked to **command builds** and **panels** for supervisory events.

How to edit a linked shape in the System tree

You can edit a 'Shape' number under 'Identity' in the 'System tree' as an alternative to drag and drop.

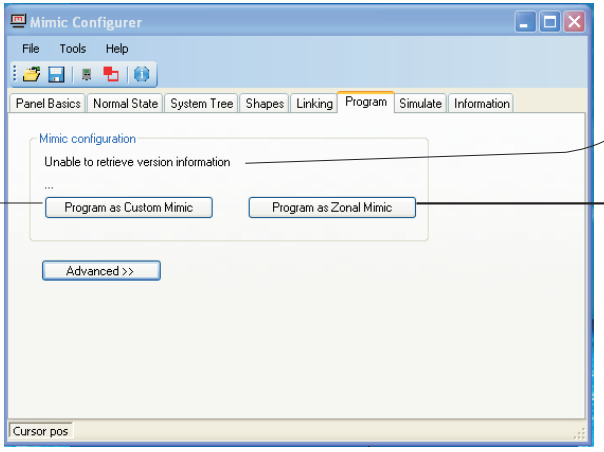


Program

How to program the Mimic panel

Before programming can begin ensure the Commissioning Tool is communicating with the Mimic panel, see page 6.

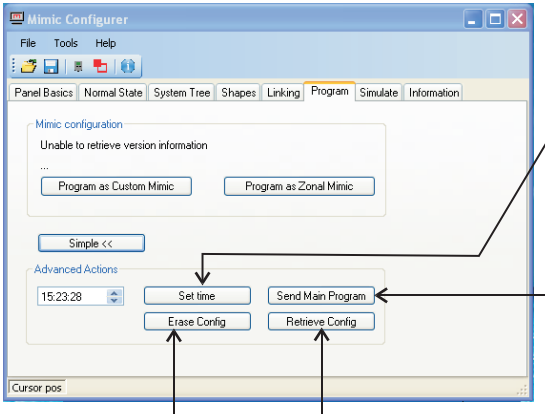
Once all the LED Shapes are linked to the System Tree you should save the work.
Then select the '**Program as Custom Mimic**' in the 'Program' tab.
Select the .S19 file and wait for a **'Completed'** or **'Successful'** message above the button.



Shows the Master Repeat Card firmware version number.

NOTE: A programmed custom mimic panel can be configured to its factory default as a Zonal Mimic panel by selecting the 'Program as Zonal Mimic' button.

How to erase configuration or retrieve mimic configuration



This button is not used.

If the wrong file is sent to the panel (e.g. a configuration file) the mimic panel will become permanently faulty.

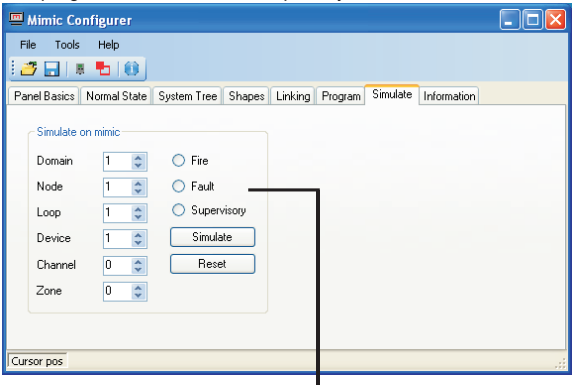
This function should not be used unless the trained engineer is trying to update the mimic panel operating program.

At anytime you can choose to erase the configuration stored in the connected mimic panel, by selecting the 'Erase Config' button.

The configuration can be retrieved and saved only.
It is not possible to edit a retrieved configuration file.

Simulate

Once the configuration is programmed into the mimic panel you can test the indications by simulating events.

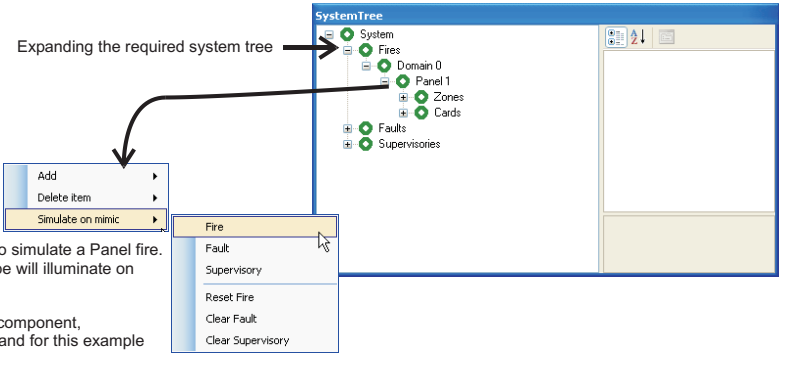


Select the event type you want to simulate and then select the Domain, Node (Panel), Loop, Device, channel or zone and then click the 'Simulate' button.

If the indications are correct click the 'Reset' button and move on to the next simulation.

When simulating multiple zone fires you will need to increment the device number for each zone simulation.

How to simulate fire, fault or supervisory events using the system tree



This example shows how to simulate a Panel fire. The configured linked shape will illuminate on the Mimic panel.

A right click on the 'Panel' component, select 'Simulate on Mimic' and for this example select Fire.

You can reset the fire by selecting the 'Fire Reset' Option.

Faults and Supervisory events can be tested in a similar manner.

A3 Mimic panel

The panel is supplied with A3 overlays, which are special protected papers to assist with the creation of custom mimic panel. It is recommended that the blank overlays supplied with the panel are kept for a final printout, after trial print on a normal A3 printer paper. With the overlay fitted to the mimic panel, simulate events to ensure the correct event illumination are given on the mimic panel, see instructions supplied with the A3 Mimic panel.

Honeywell Gent reserves the right to revise this publication from time to time and make changes to the content hereof without obligation to notify any person of such revisions of changes.

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