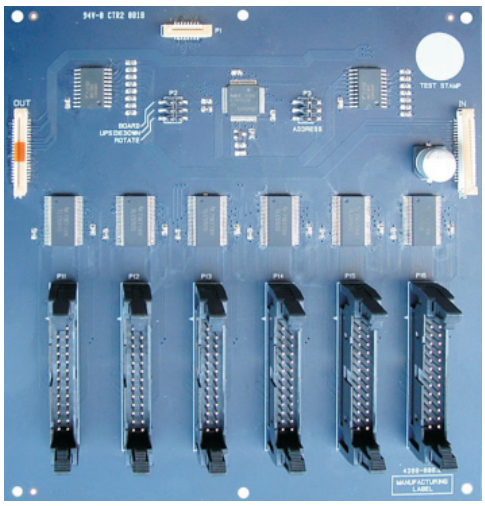
Data and Installation

Mimic LED Driver Card

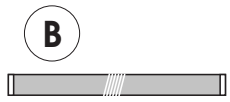
S4-34600 & S4-34494

GENT by Honeywell



S4-34600
Mimic LED Driver Card

26-way
300mm ribbon cable



20-way
200mm Flat flexible cable

S4-34494
Connection Converter

These instructions cover the *Mimic LED Driver Card* (S4-34600) and *Connection converter* (S4-34494), which are designed to be used in Custom panels.

The *Mimic LED Driver* connects to a *Master Repeat Card* which in turn connects to a loop circuit of a Vigilon fire system. Each *Mimic LED Driver Card* can control up to 768 LEDs and this leaflet covers the connection of up to 2 *Mimic LED Driver Cards*.

The *Connector converters* that holds the terminals for wiring LEDs.

Custom Panel

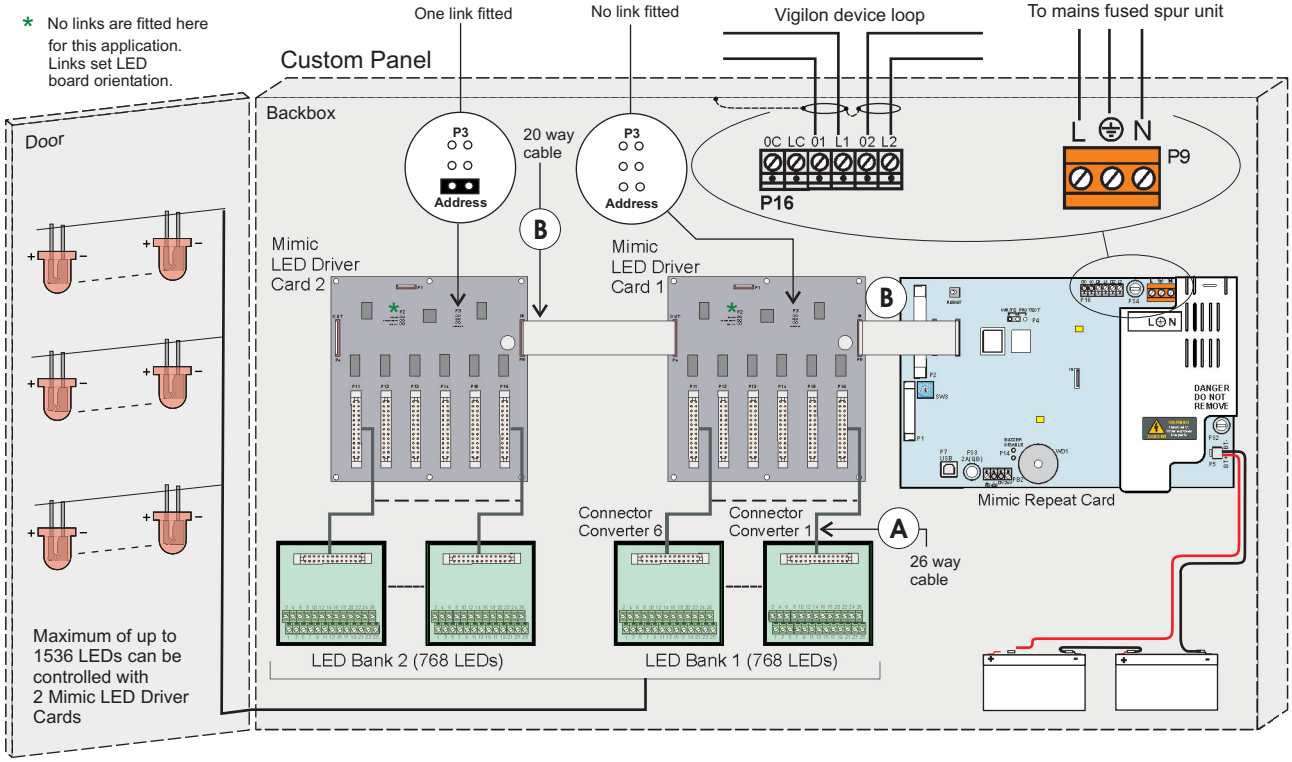
LED selection

Only use high efficiency **Red**, **Amber** or **Green** LEDs with a *Mimic LED Driver Card*.

Do not use Blue or White LEDs as these are not suitable for use with the *Mimic LED Driver Card*.

Compatibility

The *Mimic LED Driver Cards* are compatible for use in Vigilon system where the Control panel has specific MCC/MCB software, see technical data section. The *Master Repeat Card* is configured using the Mimic Configuration Tool.



Mounting

It is recommended that the *Mimic LED Driver Cards* are mounted inside a Custom panel using suitable PCB standoffs, there are 6-3mm PCB fixing holes provided on the card. The *Connection converters* are mounted on 35mm DIN rails. The LEDs and associated wiring must also be contained inside the same enclosure for mechanical protection.

The designer of the Custom panel in which the *Mimic LED Driver Cards*, *Connection converters* and LEDs are mounted must ensure the panel enclosure is EMC compliant and is CE marked.

Cables

The internal connection from the *Connection converter* to each LED inside the Custom panel is made using a standard PVC cable. Each LED can be positioned a maximum of up to **3m** cable distance away from the terminals of a *Connection Converter*.

For recommendations on loop cable type refer to the manual supplied with the Vigilon control panel.

Earth

The Custom panel must be earthed. The loop cable screen must be continued through the Custom panel, whether the earth is connected to the Custom panel or not.

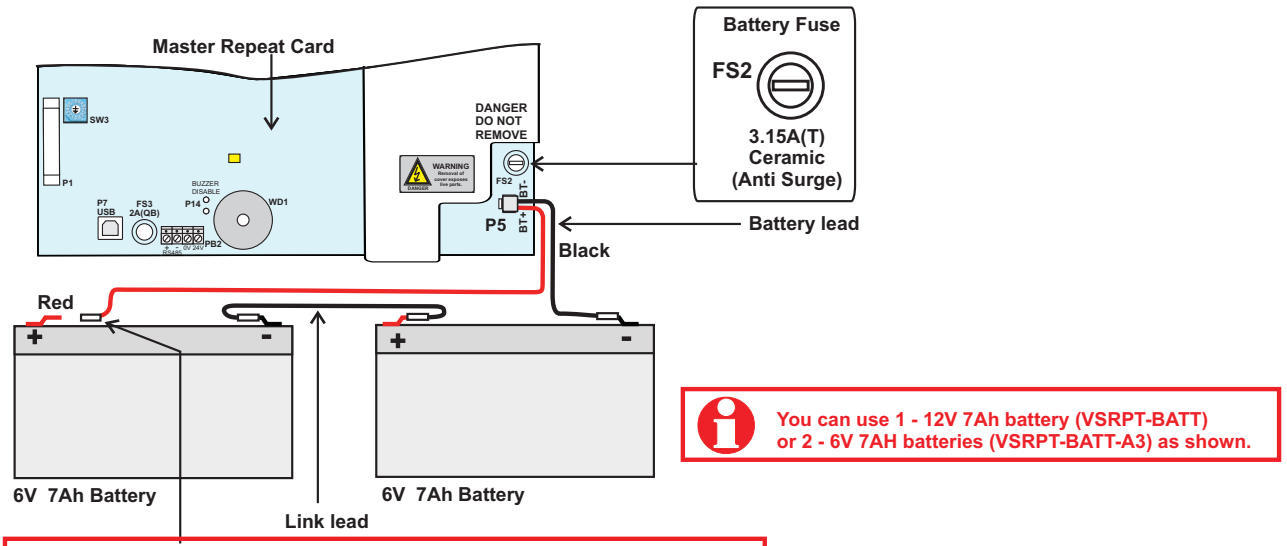
Do not use any part of building structure for earthing.

Mains supply

The mains supply to the Custom panel must be via an unswitched 5A fused spur unit. A disconnect device must be provided to disconnect both poles and must have a minimum gap of 3mm. The disconnect device should be available as part of the building installation and must be easily accessible after installation is complete.

Before removal of any card or disconnection of any cable from the Custom panel ensure both mains and battery supplies are disconnected.

Battery supply

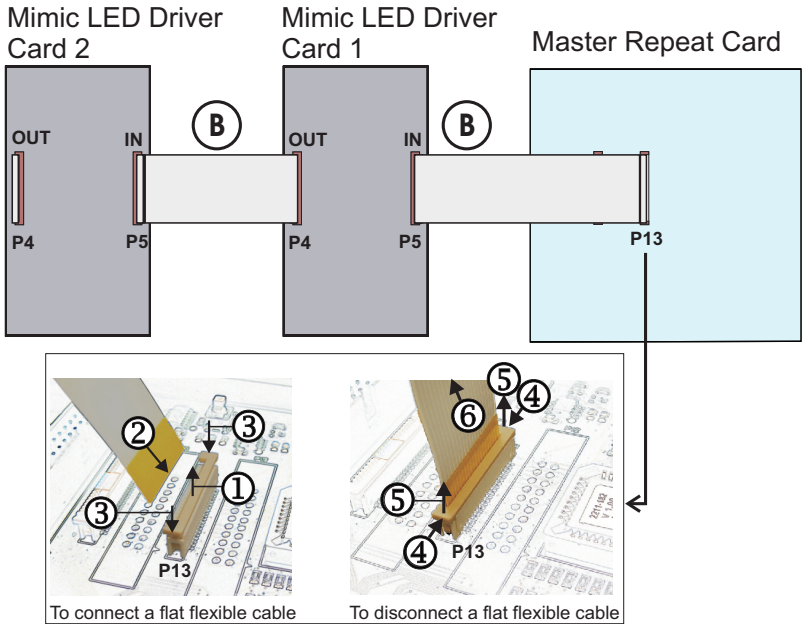


You can use 1 - 12V 7Ah battery (VSRPT-BATT) or 2 - 6V 7AH batteries (VSRPT-BATT-A3) as shown.

Leave the final connection of the battery for the Servicing organisation. This connection is made during power up and commissioning.

To connect multiple *Mimic LED Driver Cards*

You can daisy chain up to two *Mimic LED driver cards* to the *Master Repeat Card* using the 20 way flat flexible cable (B).



How to connect a flat flexible cable

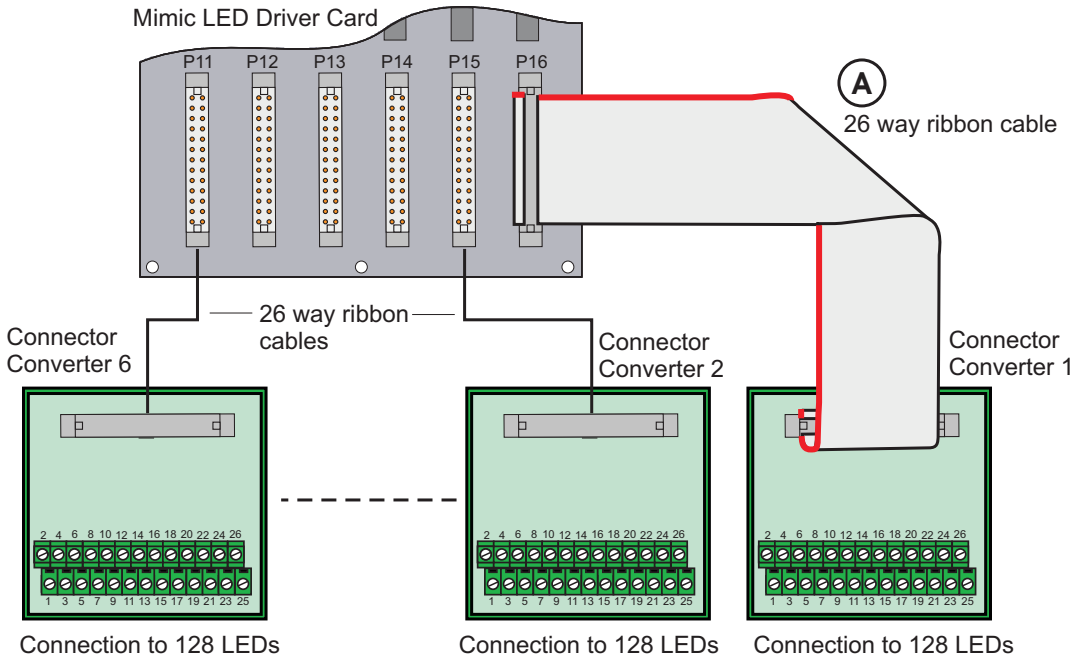
Hold the locking tab by the edges and lift it upwards a little ① and insert the flat flexible cable ② into the socket. Ensure the cable contacts are on the opposite side to the locking tab. Push down the locking tab ③ to lock the flat flexible cable.

How to disconnect a flat flexible cable

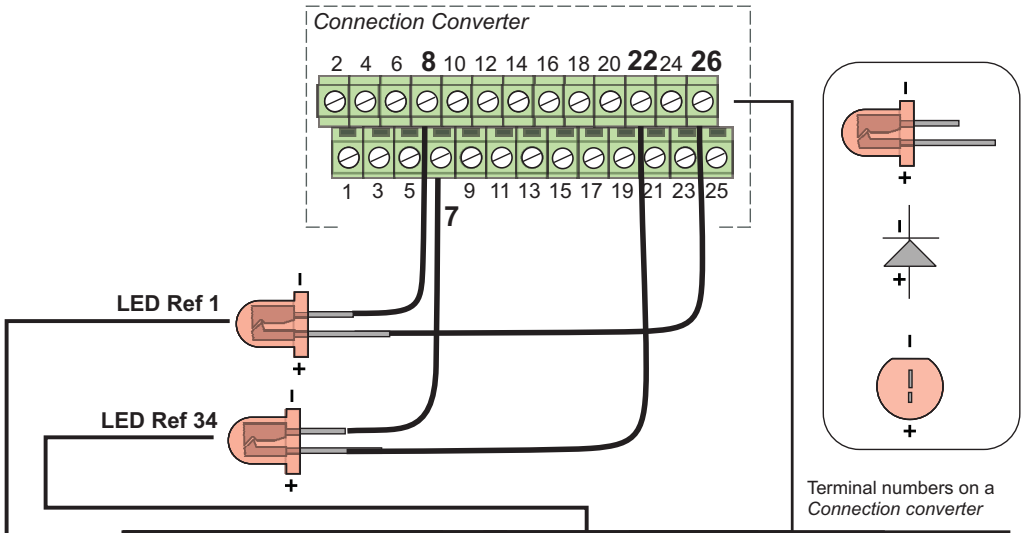
Hold the locking tab by the edges at positions ④and lift it upwards one side at a time ⑤ to disengage the flat flexible cable. Then remove the cable ⑥ from the socket.

To connect the ribbon cables from *Mimic LED Driver card* to *Connection converters*

Connect one end of the 26 way ribbon cable (A) to the IDC header on the *Mimic LED Driver card (P11)* and the other end to a *Connection converter*. The *Mimic LED Driver card* can accommodate up to 6 - 26 way ribbon cable for wiring LEDs via 6 *Connection converter*s.



Relationship between Terminals and external LEDs



LED Ref	+	-	LED Ref	+	-	LED Ref	+	-	LED Ref	+	-	LED Ref	+	-	LED Ref	+	-	LED Ref	+	-	LED Ref	+	-
1	26	8	9	25	8	17	24	8	25	23	8	33	22	8	41	21	8	49	20	8	57	19	8
2	26	7	10	25	7	18	24	7	26	23	7	34	22	7	42	21	7	50	20	7	58	19	7
3	26	6	11	25	6	19	24	6	27	23	6	35	22	6	43	21	6	51	20	6	59	19	6
4	26	5	12	25	5	20	24	5	28	23	5	36	22	5	44	21	5	52	20	5	60	19	5
5	26	4	13	25	4	21	24	4	29	23	4	37	22	4	45	21	4	53	20	4	61	19	4
6	26	3	14	25	3	22	24	3	30	23	3	38	22	3	46	21	3	54	20	3	62	19	3
7	26	2	15	25	2	23	24	2	31	23	2	39	22	2	47	21	2	55	20	2	63	19	2
8	26	1	16	25	1	24	24	1	32	23	1	40	22	1	48	21	1	56	20	1	64	19	1

65	18	8	73	17	8	81	16	8	89	15	8	97	14	8	105	13	8	113	12	8	121	11	8
66	18	7	74	17	7	82	16	7	90	15	7	98	14	7	106	13	7	114	12	7	122	11	7
67	18	6	75	17	6	83	16	6	91	15	6	99	14	6	107	13	6	115	12	6	123	11	6
68	18	5	76	17	5	84	16	5	92	15	5	100	14	5	108	13	5	116	12	5	124	11	5
69	18	4	77	17	4	85	16	4	93	15	4	101	14	4	109	13	4	117	12	4	125	11	4
70	18	3	78	17	3	86	16	3	94	15	3	102	14	3	110	13	3	118	12	3	126	11	3
71	18	2	79	17	2	87	16	2	95	15	2	103	14	2	111	13	2	119	12	2	127	11	2
72	18	1	80	17	1	88	16	1	96	15	1	104	14	1	112	13	1	120	12	1	128	11	1

Technical data

	S4-34600 *Mimic LED Driver Card*
Dimensions	160mm height x 150mm width x 30mm depth
Card weight	150g
Storage temperature	-30ºC to +70ºC
Operating temperature	-10ºC to +60ºC
Relative Humidity	Up to 95% - Temperature +5ºC to +45°C (Non condensing)
LED output per *Mimic LED Driver Card*	Up to 768 high efficiency LEDs can be driven by a *Mimic LED Driver Card* Each LED can be 3m cable distance away from the *Connection converter*. Use only high efficiency **Red**, **Amber** or **Green** LEDs.
Vigilon Panel compatibility	Fully compatible with LPC = V3.93 / V4.35 & MCC/MCB = V3.94 / V4.37.

At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre and in accordance with national or local legislation.

WEEE Directive:
At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre.
Do not dispose of with your normal household waste. Do not burn.

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Commissioning information

Mimic LED Driver Card

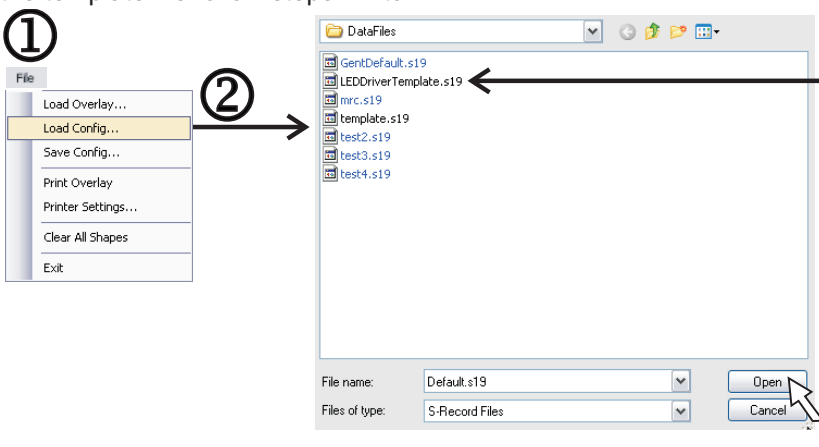
S4-34600 & S4-34494

The illumination of LEDs connected to the ***Connection Converters*** of a ***Mimic LED Driver Card*** is determined by the configuration held at the ***Master Repeat Card*** (MRC).

The following information show how to load a *LED Driver template file* and associate LED shapes with terminals of Connection converter and configure each LED shape with a system event using the Mimic Configuration tool.

How to load the 'Mimic LED Driver template.s19' file

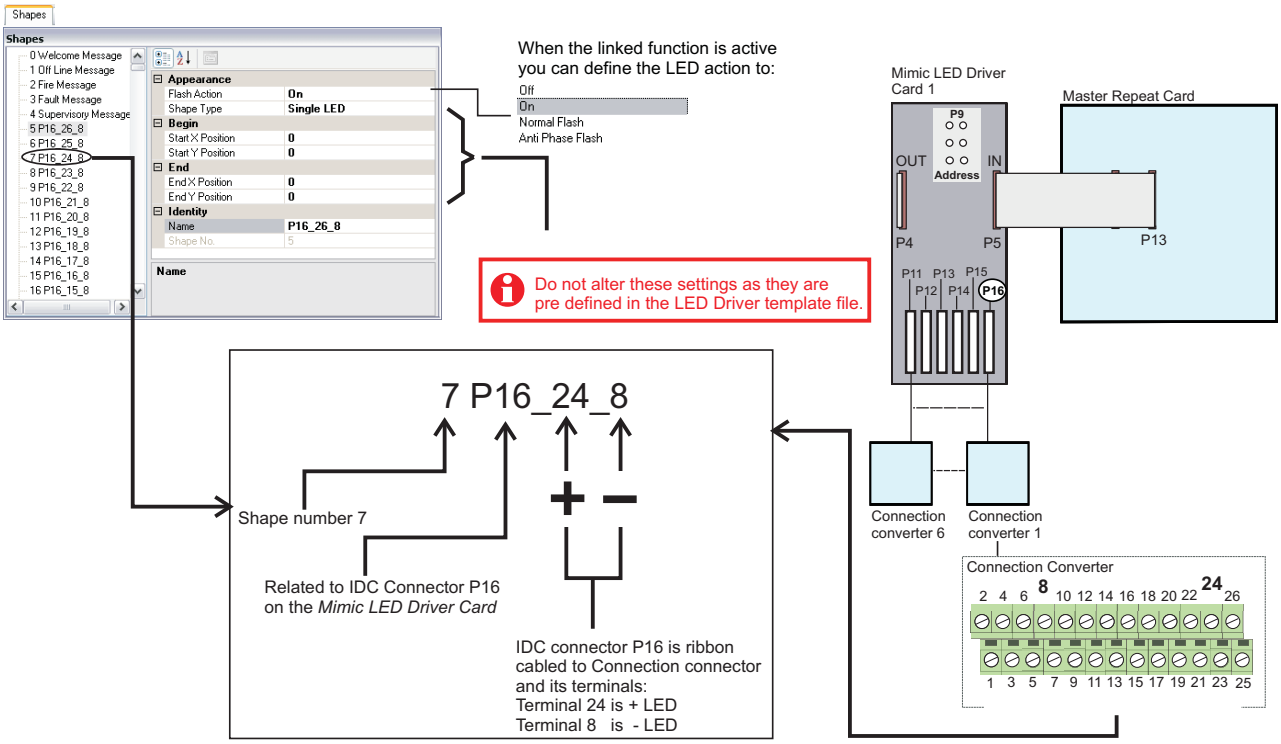
The *Master Repeat Card* is configured using the *Mimic Configuration Tool*. The tool requires an *'LED Driver template'* file to be loaded to configure a *Mimic LED Driver Card* connected to the MRC. To open the template file follow steps ① to ④.



If two LED Driver Cards are fitted inside a Custom panel, both daisy chain connected to a *Master Repeat Card*, then you will need another *LED Driver template file.*

How Mimic LED 'Shapes' relate to the Mimic LED Driver Card and Terminals

The *'LED Driver template'* file has defined LED shapes of each possible LED that can be connected to the *Connection converters* associated with a *Mimic LED Driver Card*.

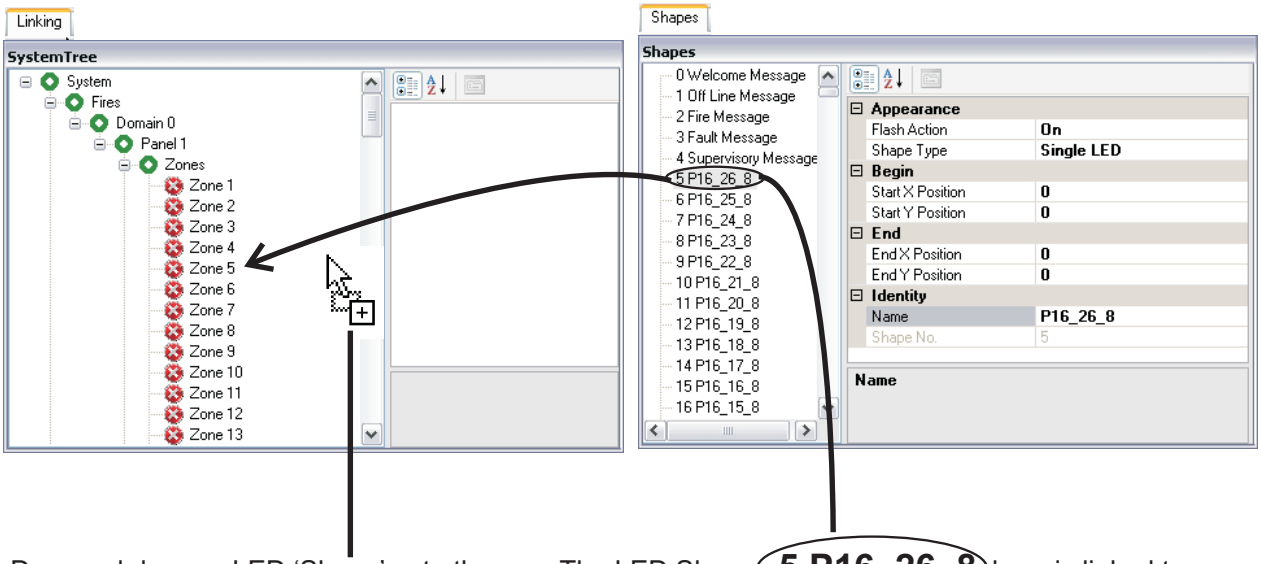


How to link Mimic LED 'Shapes' to system events

Each used LED shape must be linked with a system event, such as:

- ☐ Device fire
- ☐ Device fault
- ☐ Channel fire
- ☐ Channel fault
- ☐ Zone fire
- ☐ Zone fault
- ☐ Card fire
- ☐ Card fault or
- ☐ Supervisory Command Build.

Below is a typical example that shows how a shape can be linked to a zone:



Drag and drop an LED 'Shape' onto the a system event in the system tree. This example shows **Shape 5** being dropped onto **Zone 5,** so the two are linked.

The LED Shape **5 P16_26_8** here is linked to **Zone 5 - Fire**.

So when **Zone 5** has a fire event then the LED connected to *Connection Converter* terminals **26** and **8** will be lit (On). Note also the *Connection Converter* is associated with IDC Connector **P16** on the *Mimic LED Driver Card.*

For full information on configuration see the instructions supplied with the **Mimic Configuration tool.**

Test

Test the Custom panel and ensure it gives the correct indication for the configured Vigilon System event.

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