Application Note Smart Safety Link - PAVIRO and FPA configuration v1.0



Integrated Fire detection and PAVIRO

This application note describes how to configure a Bosch FPA 5000 fire panel in combination with a PAVIRO Voice Evacuation System.





1. Introduction

Smart Safety Link is the most reliable and secure way to combine Fire Detection and Voice Alarm. Each system meets the highest standards for quality, safety and functionality and offers exceptional flexibility and options for expandability.

The result is a future-proof installation supported by a world leader in fire detection and voice alarm. The activation of each evacuation zone is completely monitored by the fire panel and is clearly displayed on the user interface as well. Smart Safety Link easily supports multi stage evacuation which ensures a highly effective approach to emergency situations.

Bosch's interfaced fire detection and voice evacuation solutions can be tailored to any size of business or institution from retail shops, department stores or supermarkets to hotels and offices as well as airports, universities or shopping malls can be secured by Bosch. The system is designed for expandability, and all the devices and peripherals work seamlessly together. PAVIRO is using the Smart Safety Link over IP Ethernet to interface with the Modular Fire Panel 1200 or 5000 Series



2. Hardware and Software

The Smart Safety Link can be implemented by various topologies. This application note describes a direct connection by one cat.5 Ethernet cable. Other topologies are explained at the FPA-5000 Networking Guide.

Hardware

Voice Alarm (minimum requirement)

- 1) 1x controller PVA-4CR12
- 2) 1x amplifier PVA-2P500

Fire Detection

- 1) 1x MCP-xxxx-B/C or FPA-1200-(C)
- 2) 1x ADC-5000-VA or ADC-5000-OPC-VA

ADC-5000-VA

Software

IRIS-Net (from V3.0.0 onwards) FSP-5000-RPS remote Programming software FPA: V4.5.6 (from V4.3 onwards) Panel controller firmware: V2.16 (from V2.11 onwards)



Figure 1: connection diagram

	COMPLEXON	PLANT	ATMET ADD TROOMS	STOP SUB TROOPS	Pageo	DESTINATIONS	PRODUCTY STATUS
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STATE .	terhace FPASI00 VCX05 St	0.0	IMMEDIATE:	MMEDIATE.	ALARM_3	PRINCON_1.2me_5	
STATE	terface FPA5000 VCI006 SI	E .	BRNEDATE	WANEDAKTE	ALAFM_1	PiACON_1.Zere_6	
STATE	terface FRA5000 VC/007.9		ARRED KTE	WWEDATE	ALARM_1	PSACON_12ine_7	
STATE P	terface FPA5000 VC1008 St	050	MMEDIATE	MREDATE	ALARM_1	PsikColl_12ere_8	
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Figure 2: IRIS-Net Configuration software



Figure 3: FSP-5000-RPS Configuration software

3. Configuration

3.1 PAVIRO configuration software - IRIS-Net



The software configuration focuses on connection with the FPA panels. (For detailed PAVIRO system configuration, a PAVIRO training is required.)

Activate Smart Safety Link

1) In the Interfaces tab of the controller in IRIS-Net enable the FPA 5000 interface by selecting the "ENABLE" checkbox. Below this checkbox there is an option to add a username and password as defined in the FPA.

General Security Sup	ervision DSP TaskEngine Pagin	gs Programs Use	rMix Interfaces PowerMar	nagement LineSup	ervision Topolog	y/Zones	
CAI	N INTERFACE		OPEN INTERFACE			FPA 5000 INTER	FACE
REMOTE	DRATE 10 KBit/s	ETHERNET	ENABLE		ETHERNET	ENABLE	
CAN S	STATE		TCP PORT	6273		TCP PORT	9401
CAN I	DEVICE LIST		NR. LOGIC VALUES	10 📑		USERNAME	admin
			NR. ANALOG VALUES	10 📩		PASSWORD	NNNN
LAN BUS			IS ALIVE (sec)				
		PASSWORD					

- 2) Make sure that your PC and/or network allows communication via the specified TCP port.
- 3) By enabling the FPA 5000 interface you will automatically have 244 FPA virtual trigger available in the system.

FireInterface.FPA5000.VCI001.State	
FireInterface.FPA5000.VCI002.State	
FireInterface.FPA5000.VCI003.State	
FireInterface.FPA5000.VCI004.State	
FireInterface.FPA5000.VCI005.State	
FireInterface.FPA5000.VCI006.State	
FireInterface.FPA5000.VCI007.State	
FireInterface.FPA5000.VCI008.State	
FireInterface.FPA5000.VCI009.State	
FireInterface.FPA5000.VCI010.State	
FireInterface.FPA5000.VCI011.State	Ŧ

4) In the "Pagings" tab of the controller in IRIS-Net you can assign each virtual trigger to a specific type of paging e.g. an evacuation message, and to destinations i.e. a specific zone or a group of zones.

PVACON_1 Configuration							x
						OFFLIN	IE
General Security Supervisio	n DSP TaskEngi	ne Pagings Programs U	serMix Interfaces Powe	Management Line	eSupervision Topology/Zones		
			STOP/SUB TRIGGER	PAGING	DESTINATIONS		7
		IMMEDIATE	IMMEDIATE		PVACON 1 Zeno 1	Integets i States	
STATIC Interface FPA5000		IMMEDIATE	IMMEDIATE		PVACON_1.Zone_1		
STATIC Interface EPA5000	VC1002.5t	IMMEDIATE	IMMEDIATE	ALARM 1	PVACON_1.Zone_2		
STATIC Interface FPA5000	VCI004 St	IMMEDIATE	IMMEDIATE	ALARM 1	PVACON 1 Zone 4		
STATIC Interface, FPA5000,	VCI005.St	IMMEDIATE	IMMEDIATE	ALARM 1	PVACON 1.Zone 5		
STATIC Interface.FPA5000.	VCI006.St	IMMEDIATE	IMMEDIATE	ALARM 1	PVACON 1.Zone 6		
STATIC Interface.FPA5000.	VCI007.St	IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_7		
STATIC Interface.FPA5000.	VCI008.St	IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_8		
STATIC Interface.FPA5000.	VC1009.St	IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_9		
STATIC Interface.FPA5000.	VCI010.St	IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_10		
STATIC Interface.FPA5000.	VCI011.St 🔲	IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_11		
STATIC Interface.FPA5000.	VCI012.St	IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_12		
STATIC Interface.FPA5000.	VCI013.St	IMMEDIATE	IMMEDIATE	ALARM_1	SysGroup_500		
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CONDITION	and the second second	START/ADD 1	RIGGER	STO	P/SUB TRIGGER	DESTINATIONS	
EILTER:		• IMMEDIATE		• IMMEDIATE		SysGroup 500	
		C TRIGGERED				PVACON_1.Zone_1	
FireInterface.FPA5000.VCI001.9	State	Chinadeneo		Chinadeneo		PVACUN_1.Zone_2	1988
FireInterface, FPA5000, VCI002, S	State	C NEXT SEQUENCE		C NEXT SEQUE		PVACON 1.Zone 4	
FireInterface.FPA5000.VCI004.9	State	FILTER:		FILTER:		PVACON_1.Zone_5	
FireInterface.FPA5000.VCI005.9	otate		01.01.1		2000 VCI001 CL 1	PVACON_1.Zone_6	1000
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FireInterface.FPA5000.VCI008.S	State	FireInterface.FPA5000.VCIC	103.State	FireInterface.FPA5	5000.VCI003.State	PVACON_1.Zone_9	
FireInterface.FPA5000.VCI009.9	State	FireInterface.FPA5000.VCIC	104.State	FireInterface.FPA5	5000.VCI004.State	PVACON_1.Zone_10	
FireInterface, FPA5000, VCI010.9	otate	FireInterface.FPA5000.VCIU	IU5.State	FireInterface.FPA5	5000 VCI006 State	PVACUN_1.Zone_11	
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							1999
			<u>^</u>				
NEW/EDIT TYPE	ALARM	·····	C ALAR	м	DIN Alarm 💌		
LAREL	ALARM	2	INPU	τ εμαννεί			
CADEL	JOBS IM,		IN U		Lose II		
PRIOR	ITY 90						

А

В

Select the required virtual trigger (click left mouse button)

By default the trigger starts and stops immediate. It is also possible to start and stop the active paging by another trigger. This also allows to add or subtract zones to an active paging.

С

Select the required paging type via the drop down next to "TYPE", see list below:

TYPE	ALARM	•
LABEL		
PRIORITY	CHIME EVAC Message	H
	Business Message	-

By adding a label the paging type can be used again for another trigger. Check the radio button in front of "EXISTING" in order to select it again via the drop down menu next to it. Priority can be set from 0 - 100 where 100 is the highest priority.

Paging types

Each paging type has specific options related to e.g. selection of system alarms/chimes, messages etc. Below an overview of each paging type and the available options.

ALARM

ALARM	DIN Alarm	-
INPUT CHANNEL	AUX_1	~

Available alarms:

DIN Alarm	Two-Tone Alarm
Slow Whoop	Telephone Alarm
Siren	Ship Alarm 1 up to 17

DIN Alarm	-
DIN Alarm	
Slow Whoop	
Siren	
Two-Tone Alarm	
Telephone Alarm	1

It is also possible to select an external alarm available on one of the audio inputs of the controller.

ALARM	Extern	•
INPUT CHANNEL	AUX_1	•

AUX_1	-
AUX_1	
AUX_2	
CST_1	
CST_2	
CST 3	· · · · · · · · · · · · · · · · · · ·

Available input channels:

CST_1
CST_2
CST_3
CST_4

D

Select the required destinations (click left mouse button). More zones can be selected by keeping the left mouse button pressed and move the mouse or by keeping the <ctrl> key on the keyboard pressed and click on each zone individually.

When all parameters are set press the "NEW" button. The paging will be listed in the paging overview.

General Security Supervision DSP	TaskEngi	ne Pagings Programs U:	serMix Interfaces PowerM	anagement Lin	eSupervision Topology/Zones		
TYPE CONDITION	INVERT	START/ADD TRIGGER	STOP/SUB TRIGGER	PAGING	DESTINATIONS	REQUEST	STATUS
STATIC Interface.FPA5000.VCI001.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_1		
STATIC Interface.FPA5000.VCI002.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_2		
STATIC Interface.FPA5000.VCI003.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_3		
STATIC Interface.FPA5000.VCI004.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_4		
STATIC Interface.FPA5000.VCI005.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_5		
STATIC Interface.FPA5000.VCI006.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_6		
STATIC Interface.FPA5000.VCI007.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_7		
STATIC Interface.FPA5000.VCI008.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_8		
STATIC Interface.FPA5000.VCI009.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_9		
STATIC Interface.FPA5000.VCI010.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_10		
STATIC Interface.FPA5000.VCI011.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_11		
STATIC Interface.FPA5000.VCI012.St		IMMEDIATE	IMMEDIATE	ALARM_1	PVACON_1.Zone_12		
STATIC Interface.FPA5000.VCI013.St		IMMEDIATE	IMMEDIATE	ALARM_1	SysGroup_500		

In this overview there are two additional options:

TYPE	
PULSE	
STATIC	

STATIC or PULSE in the "TYPE" column on the left. STATIC: the paging is active as long as the trigger is active PULSE: the paging is triggered once and remains active until a dedicated stop signal for the type PULSE occurs

Note: this option is available from IRIS-Net version 3.1.x.

Τ	INVERT
St	
St	

INVERT column.

The action of the trigger will be inverted when this checkbox is selected.

Advanced Paging

For more advanced users of IRIS-Net there is also the option to use the Task Engine and create custom made configurations. The advantage of using the Task Engine is that you are more flexible in triggering anything within the PAVIRO system. Where the "Pagings" tab allows you to select one alarm message or external input the Task Engine will give you the option to trigger e.g. alternated messages or a phased evacuation.

Below an example of an *alternating message solution* and a short explanation how it works.



The IN_LOGIC_1 block is assigned to a virtual trigger of the FPA 5000. All FPA 5000 objects are available in the Task Engine, see picture on the right.

Once the trigger is active it will set the IN_LOGIC_1 block to 1 and activate TIMER_1 to create a pulse for 1 second. This will initiate EVAC_MSG_1 via the OR_1 and AND_1 block because they will both be set to 1 for the period of 1 second.



At the moment EVAC_MSG_1 starts it will trigger TIMER_2. This timer is set for the exact duration of the message plus 1 second. Once the timer is active it will trigger DEBOUNCE_1 which is set to the exact duration of the message. The result is a pulse of 1 second at the output of the debounce block after the message is finished triggering EVAC_MSG_2.

TIMER_3 and DEBOUNCE_2 will be triggered as soon as EVAC_MSG_2 starts. When the message is finished a puls of 1 second on the output of DEBOUNCE_2 will be looped back via LOOP_1 to the OR_1 block. The OR_1 block is linked to the AND_1 block and as long as IN_LOGIC_1 is active i.e. the FPA 5000 trigger is active, the process will start again by triggering the first message. As soon as the FPA 5000 trigger is not active anymore the output of AND_1 will remain zero and the process stops.

Note: this Task Engine solution can also be used in combination with e.g. the physical control inputs of the system by assigning the IN_LOGIC_1 block to that specific input.

Configuration upload

Upload the configuration from the PC to the PAVIRO controller. Connect the PC to the Ethernet connection of the controller. This can be done direct from PC to the controller as shown in figure 4 or via a network.



Make sure that both PC and controller are in the same IP range and subnet and that communication via TCP port 6271 is allowed and not blocked by any firewall or such. The default IP address is 192.168.1.100. This address can be changed via the Device Scan tool in IRIS-Net. Click on Device Scan and a new window will open:



Click on "SCAN" and the connected device(s) will become visible. Select the applicable device and click on "CONFIG". You will be asked to enter a username and password. The username is "admin" and the password is "0000" (four times zero). Now you can change the IP address.

Go Online and upload the configuration.

When new business messages are used don't forget to select the check box in front of "Upload Business Messages (overwrites hot swapped messages)".

Note that in this window also the IP address of the controller is visible. In this example the IP address has been set to 192.168.1.101

The specific settings for communication with the FPA panel are now set.

Name	IP Address	State
Untitled (PVACC	N_1) 192.168.1.101	
G		
C Read All from Se	elected Devices	
 Read All from Se Send All to Selet 	elected Devices	
 Read All from Se Send All to Select Value All to Select 	elected Devices ted Devices	is hot swanned messanes)
 Read All from Se Send All to Selet Upload Bu 	elected Devices :ted Devices siness Messages (overwrite	s hot swapped messages)
 Read All from Se Send All to Select Upload Bu Connect only (d) 	elected Devices ted Devices siness Messages (overwrite ata would not be synchroni	s hot swapped messages) zed)
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3.2 Fire Panel configuration software - FSP-5000-RPS



The software configuration focuses on connection with PAVIRO. (For detailed fire panel configuration, a FPA training is required.)

Activate Smart Safety Link

1) Under "Nodes" select the FPA-5000 (or FPA-1200) fire panel which is connected to PAVIRO.

2) Press the button 'IP Settings' to access the following window

📑 IPSettings	
IP Address	192 . 168 . 1 . 99
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 254
Multicast Address	239 . 192 . 0 . 1
Port Number	25001
Use Ethernet Settings	
Default Settings	OK 4 Icel Help

- 3) Create a unique IP Address for the fire panel. Remark: the panel IP address and the subnet must be in the same range of PAVIRO
 4) Press 'OK' to confirm the IP settings.
- 5) Press 'Apply" to continue and safe the settings.
- 6) Select the MPC (Main Panel Controller) of the panel

Panel configuration - AP_Paviro_FPA		- • ×
Eile Edit Operations Options Reports Help		
FSP-5000-RPS		BOSCH
Active Panel	000 V2.16)	
Network - AP, Paviro _ FPA.xml Network Settings Customer Information Support Information Nodes Nodes	FPA-S000 MPC Type C - 11 - RSN 001 Available items Account info Int - FPA-S000 MPC Type C - RSN 001 Iine 2 Label Iine 3 Inserted Address Card(s) T 64 0 0 64 0 0 Country German T Ime Zone GMT +01:00 Ime I Causes External Alarm Additional Fault Causes External Alarm Additional Fault Causes External Alarm Additional Fault Causes External Alarm Additional Fault Causes External Alarm Additional Fault Causes External Alarm Additional Fault Causes External Alarm Additional Fault Causes External Alarm Additional Fault Causes External Alarm Additional Address Reset Mode Fault Faul	255)s
• • • •		

7) Use the dropdown box to select the type of address card which is added to one of slots at the back of the panel controller



- 8) Press 'Apply' to continue and safe the settings.
- 9) Select the tab 'Available Items'

Panel configuration - AP_Paviro_FPA		
Eile Edit Operations Options Reports Help		
FSP-5000-RPS		BOSCH
💾 @, 🗊 🔍 🗃 💉 较 🛅 ? 😐		
Active Panel Node - 1.1 - FPA-5000 MPC Type C - RSN 001 - Group - 1	+5000 V2.16)	
	FPA-5000 MPC Type C - 1.1 - RSN 1 Available items Account Info	
Network Settings	Select available items]
Support Information	No. of times to add 1	
- Nodes		
Node - 1.1 - FPA-5000 MPC Type C - RSN 001 - Group - 192.	maximum avairable I	
Exports		
imports		
Assigned servers		
FPA-5000 MPC Type C - 1.1 - RSN 1	Select Hitemptor LSN Elements	
MPC Panel Controller	EN Elements only	
BCM - Battery Controller Module - 1		
Logical grouping / activation	ECM - Battery Controller Module	
Panel Administration	BCM-0000-B - Battery Controller Module	
B- Sets	and CZM 4 - Conventional Module	
Status Groups	906 ENO - ENOT Module	
Address Offset Management	RMH - Relay High Voltage Module	
Counters	ICP 8 - L/O 8 Module	
Biohts Management	05 232 - 1/0 RS232 Module	
Time Control	I IOS 20 - I/O S20 Module	
Panel Communication	FPE-SUDUGM	
Priority Table	ANI 16 - LED Module	
	R LSN 1500 - LSN Improved Module	
	ESN 300 - LSN Improved Module	
	7 KML - Helay Low Voltage Module	
<>]

10) Select VAS - Voice Alarm System and double click to add it to the panel configuration





After adding VAS

Panel configuration - AP_Paviro_FPA		
Eile Edit Operations Options Reports Help		
FSP-5000-RPS		BOSCH
Comparison of the second	PA-5000 V.2 16)	
Protect - AP_Paving FPA.ml Potwork Settings Nodes Nodes Node - 1.1 - FPA-5000 MPC Type C - RSN 001 - Group - 192 Nodes Nodes Node - 1.1 - FPA-5000 MPC Type C - RSN 001 - Group - 192 Assigned servers Assigned volt retraces FPA-5000 MPC Type C - 1.1 - RSN 1 MPC Panel Controller Module - 1 FVAS-Voice Alam System Dogs and System For Assigned servers Address Offset Management Address Offset Management Address Offset Management Prote Communication Protect Communication	VAS - Voice Alam System Available Items Account Info Label Supervised VAS over IP 11 Plena VAS over IP Settings Username: 12 Accolv Discard Help 16	
< III >>		

- 11) Select the radio button 'VAS over IP' for Smart Safety Link with PAVIRO or Praesideo.
- 12) When PAVIRO is protected with a password, it must be added in the field 'Username:' and 'Password:'. If not these fields must be empty.

			FPA 5000 INTERF	ACE
VAS over IP Settings		ETHERNET	ENABLE	
Username:	admin		TCP PORT	9401
Pageword:			USERNAME	admin
Fassword.			PASSWORD	****
FSP-5	5000-RPS		IRIS	Net

Remark: the username and password must be identical in PAVIRO and FPA

13) Press on the button 'IP settings ...' to access the next window.

VAS - Voice Alarm System - IP Settings	
IP Address	192 . 168 . 1 . 100
Subnet Mask	255.255.255.0
Port Number	9401
15 ок	Cancel Help

- 14) Add the IP Address, Subnet Mask and Port Number of the PAVIRO Remark: this mus be idential with the configuration in IRIS-Net
- 15) Press 'OK' to confirm the IP settings.
- 16) Press 'Apply" to safe the settings.

The fire panel and PAVIRO can now be interconnected through Smart Safety Link. The link is now in operation meaning that the connection between the fire panel and PAVIRO is secured and supervised.

Assign and configure Virtual Triggers

In order to activate zones and messages one or more Virtual Triggers must be configured. Each Virtual Triggers needs to create a realtion between a Signalling Circuit (NAC) of the FPA and the Trigger Number in PAVIRO

a) Click with the right mouse button at 'VAS - Voice Alarm System'



b) Select 'Add VAS Virtual Trigger'

- c) A new 'Virtual Trigger' is created'
 - ė... FPA-5000 MPC Type C - 1.1 - RSN 001 MPC Panel Controller ÷... BCM - Battery Controller Module - 1 ÷... LSN 300 Module - 3 - LSN improved - Loop (style 6&7) ÷ VAS - Voice Alarm System - Smart Safety VIRO 1 - VAS Virtual Trigger - NAC/Signaling circuit С Logical grouping / activation Panel Administration Sets Groups Status Groups Address Offset Management Counters **Operator Management Rights Management** ÷... ÷... Time Control ÷... Panel Communication Activity Text <u>+</u>... Priority Table

On the right side of the window, the 'Virtual Trigger' needs to be configured.

NAC/Signaling circui	t 💌 1	0	
Address			
Group 1			
Sub-address	E		
Allowed administratio	ons		
🔽 Bypass	V Sile	ence	
Block	🔽 Dri	II	
Label			
Evacuation Floor 1			

d) The field 'Trigger Number' contains the ID number of the 'Virtual Trigger' configured in IRIS-Net. It's mandatory that this trigger number corresponds to the actual trigger of PAVIRO.

FireInterface.FPA5000.VC	State 🔺
FireInterface.FPA5000.VC	2 State 👘
FireInterface.FPA5000.VCI003	3 State
FireInterface.FPA5000.VCI00	4 State
FireInterface.FPA5000.VCI00	5 State
FireInterface.FPA5000.VCI00	State
FireInterface.FPA5000.VCI00	7 State
FireInterface.FPA5000.VCI00	3 State
FireInterface.FPA5000.VCI00	3 State
FireInterface.FPA5000.VCI01	State
FireInterface.FPA5000.VCI01	State 💌

List of triggers in IRIS-Net ('Pagings' tab)

- e) Add and unique logical address to the trigger. This address will be used by FPS-5000-RPS for further configuration and activation of the virtual trigger.
- f) Press 'Apply' to save and continue.

The virtual trigger is now seen by the panel as a standard signaling device. To activate the virtual trigger a configuration similar to other signaling devices is required.

g) Click with the right mouse button at 'VAS Virtual Trigger' and select 'Go to logical node'



Priority Table

A set of two 'Event Triggered Rules' are automatically created.



By default the virtual trigger is activated in case of a general alarm event on the fire panel. For modifying or adapting this set of 'Event Triggered Rules' a FPA training is required.

Repeat steps 'a' to 'g' for each separate virtual trigger.

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