

AEBN: 083110

Date: August 31, 2010

Subject: E-FSA Panel Sounder Base Programming

Version 2.0 of the E-FSA panel firmware and version 3.2 of the FSA-CU configuration utility program includes several new features. One of them is the ability to program sounder bases to activate in groups with out the need for E-RLY relay modules. The sounder bases can now be programmed to activate from any input, just like a NAC (signal circuit).

The most common application for this would be in hotels. Often times hotel rooms will have smoke detectors with sounder bases. When the smoke detector alarms, however, usually you do not want to evacuate the building (sound all the signals throughout). Instead, the detector will just activate signals within the room. This is because of the potential for "false alarms" from cigarette smoke or someone burning toast, for example. If it were a real fire, the person in the room would be alerted, then pull a pull station in the hallway for general alarm as they exited the building.

If a hotel room has multiple smokes with sounder bases, you would want all the bases within that room to activate if any one of the smokes went into alarm. If there is a general alarm within the building (someone pulls a pull station), then you may want *all* the sounders bases in *all* the rooms to activate. With the latest version of the panel firmware and FSA-CU software, you can do this easily through programming correlation groups.

The following will show an example of how you can program smoke detectors with sounder bases. Always be sure to check with the AHJ for the correct sequence of operation for your particular system.



In the Device Configuration section of the FSA-CU, be sure the base type for all smoke detectors that have sounder bases is set for Sounder. (*Note: If you had autoprogrammed the panel, the base type will default to Relay. You must change it to Sounder.*).

Configuration										_	8 ×
Loop 1 Devices									Properties		
Quantity: 10	<u> </u>								Model	Ipp	-1
Models		s							Device Tune	Smoke	
OHD	Addr	Model	Device Type		Message Line 1		Message Line 2	-	Device Address	1	
	1	PD	Smoke		Room 101				Message Line 1	Room 101	
OPDD	2	PD	Smoke		Room 102				Message Line 2		
O PHD	3	PD	Smoke		Room 103				Coder	0.0.0.0	
270	4	PD	Smoke		Room 104				Sensitivity	Least	
2706C	5	PD	Smoke		Room 105				Alt Sensitivity	Least	
278	6	PD	Smoke		Room 106				Pre Alarm	None	
2WIRE	7	PD	Smoke		Room 107				Alt PreAlarm	None	
	8	PD	Smoke		Room 108				Verification	N/A	
TIDC2B	9	PD	Smoke		Room 109				Alt Verification	N/A	
DCWS	10	PD	Smoke		Room 110				Base	Sounder	•
NAC DI NAC	10								Follow	Standard	
	12									Isolator	
	13									Source	
	15	-									
	16						-				
	17										
	18						2				
	19										
	20										
	21										
	22	1									
	23	1									
	24										
	25										
	26										
1	27							-			
Event Notificatio	ns										
Event		Printer		Telco Account	IP Account	[CID				
Active		Yes		Account 1	Account 1		111				
Alarm Verify		Yes		None	None		118				
Disable		Yes		Account 1	Account 1		570			J	
Maintenance Alert		Yes		Account 1	Account 1		393		Help	_	
Pre Alarm		Yes		None	None		118		Dest		-
Test	Test			Account 1	Account 1		614		Base		
Trouble		Yes		Account 1	Account 1		373		Click the type of base	to which the detector is	
🖨 Change	Address		🖋 <u>S</u> elect All						mounted.		
add a	Device		X Delete Selected						Otopdard (defer)	It for amake and heat	
TAUU	Defice		N Delete Beletten		Trose				 Standard (detau 	it for smoke and heat	



Next, you can select how the sounder base will activate. Under the Follow settings, if you select Head, the sounder will only activate when its detector activates. If you select Alarm, the sounder will activate when the detector activates, *and* can be programmed to activate from other inputs. If you select None, the sounder will only activate using correlation groups. For this example we want the sounder base to work as a local alarm for the smokes in the rooms, and have the ability to activate the sounders in groups, so Alarm will be selected.

Configuration								18		_ B >
Loop 1 Devices									Properties	
Quantity: 1									Model	[pn
Models	-Device:	s						_	Device Tune	Smoke
(O) HD	Addr	Model	Device Type		Message Line		Message Line 2	-	Device Address	1
OISO OPD	1	PD	Smoke		Room 101				Message Line 1	Room 101
RPDD	2	PD	Smoke		Room 102				Message Line 2	
O PHD	3	PD	Smoke		Room 103				Coder	0-0-0-0
270	4	PD	Smoke		Room 104				Sensitivity	Least
270BC	5	PD	Smoke		Room 105				Alt Sensitivity	Least
278	6	PD	Smoke		Room 106				Pre Alarm	None
2wire	7	PD	Smoke		Room 107				Alt PreAlarm	None
IDC1A	8	PD	Smoke		Room 108				Verification	N/A
	9	PD	Smoke		Room 109				Alt Verification	N/A
DCWS	10	PD	Smoke		Room 110				Base	Sounder
NAC	11								Follow	Alarm
E RLY	12									Head
	13									Alarm and Verify
	14									Alarm and Pre Alarm
	15									None
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25									
	26									
	21							-		
Event Notifications	s									
Event		Printer		Telco Account	IP Account	CI	D	ן ד		
Active		Yes		Account 1	Account 1	11	1	-		
Alarm Verify		Yes		None	None	11	8	1		
Disable		Yes		Account 1	Account 1	57	0			
Maintenance Alert	Maintenance Alert			Account 1	Account 1	39	13		Help	_ 🗆
Pre Alarm	Pre Alarm			None	None	11	8			
Test	Test			Account 1	Account 1	count 1 614			Base Follow	
Trouble		Yes		Account 1	Account 1	373			Click the type of input	event that will activate the
, , , ,	Alter and Alter and								relay or sounder dete	ctor base. Select from the
lege Lhange A	Address		Select All	_	-	1			Roccible values:	
+ Add De	evice		X Delete Selected		<u> </u>		P USSIBIE VAIUES.			



If there is a general alarm situation, like if someone pulls a pull station or a smoke detector in a common area alarms, we want all the signals to sound, including all the sounder bases in all the rooms. In the Correlation section of the CU, the screen is broken into 4 areas (the very top right lists the current correlation group number being programmed). In the upper left is a list of all the input devices connected to the system. In the lower left is a list of all the output devices connected to the system. Notice that the output devices include detectors with sounder bases. This may not look right, since a smoke is an input device, but the program is really looking at the sounder base, which is considered an output in this case. (*Note: If you had selected Head in the Base Follow section on the Device Configuration screen, detectors with sounder bases would not be listed as an output.*)

To correlate an input to an output, select the input(s) in the upper left and drag (or click on right pointing arrow) to the upper right. To add output devices to the group, select it (them) from the lower left and move it (them) to the lower right. Any input device in the upper right will now activate all output devices in the lower right. In the example below, we want the first floor pull station to activate general alarm, including all the sounder bases, which are part of Correlation Group 1.

Some things to note: When you Autoprogram a system, Correlation Group 1 will automatically contain all the alarm input devices and all the alarm output devices. If you do not want the smoke detectors in the individual hotel rooms to activate general alarm, you must remove them from the *input* side (upper right) of Correlation Group 1. Also, detectors with sounder bases are *not* automatically included in the *outputs* of Correlation Group 1 (lower right). They must be added as needed as described above.

Correlations	oficuur at ion tilt ilit s																
Available i	inputs and	outpu	ts						Correlations								
Panel reporting:	Device								Activation Count 1 T In Suite Signal Sience								
Drag and drop avail	able inputs and outpu	ts to correl	ations														
Inputs 🔽 🛛	Detector 🔽 Mod	ule 🔽	Event						Inputs								
Group	Description	Loop	Address	Type	Messag	je line 1	Message line		Group	Description	Loop	Address	Type	Message line 1	Message		
Oetector	PD	1	1	Smoke	Room 1	01	Smoke 1		Module	270	1	11	Pull Station	First Floor Hall			
Oetector	PD	1	2	Smoke	Room 1	01	Smoke 2										
Oetector	PD	1	3	Smoke	Room 1	02		<u> </u>									
Oetector	PD	1	4	Smoke	Room 1	03		A									
Detector	PD	1	5	Smoke	Room 1	04		-									
Detector	PD	1	6	Smoke	Room 1	05									1		
Detector	PD	1	7	Smoke	Room 1	06									1		
Detector	PD	1	8	Smoke	Room 1	07											
Detector	PD	1	9	Smoke	Room 1	08											
Detector	PD	1	10	Smoke	Room 1	09											
Module	270	1	11	Pull Station	First Floor Hellway												
C Event					Loop 11	Jnconfigured											
C Event					Commo	n Trouble											
-																	
				1	1							-		1			
1.1									1.1								
Outputs	🔽 Module 🔽 NA	C 🔽 R	ielay / Sounders	2					Outputs								
Group	Description	Loop	Address	Type	N	Aessage line 1	Message lin	1	Group	Description	Loop	Address	Туре	Message line 1	Messa		
Oetector	PD/Sounder	1	1	Smoke	F	Room 101	Smoke 1		Detector	PD/Sounder	1	1	Smoke	Room 101	Smoke		
Oetector	PD/Sounder	1	2	Smoke	F	Room 101	Smoke 2		Detector	PD/Sounder	1	2	Smoke	Room 101	Smoke		
Detector	PD/Sounder	1	3	Smoke	F	Room 102		-	Detector	PD/Sounder	1	3	Smoke	Room 102			
Detector	PD/Sounder	1	4	Smoke	F	Room 103			Detector	PD/Sounder	1	4	Smoke	Room 103			
Detector	PD/Sounder	1	5	Smoke	F	Room 104		4	Detector	PD/Sounder	1	5	Smoke	Room 104			
Detector	PD/Sounder	1	6	Smoke	F	Room 105		<u> </u>	Detector	PD/Sounder	1	6	Smoke	Room 105			
Detector	PD/Sounder	1	7	Smoke	F	Room 106			Detector	PD/Sounder	1	7	Smoke	Room 106			
Detector	PD/Sounder	1	8	Smoke	F	Room 107			Detector	PD/Sounder	1	8	Smoke	Boom 107			
Detector	PD/Sounder	1	9	Smoke	F	Room 108			Detector	PD/Sounder	1	9	Smoke	Room 108			
Detector	PD/Sounder	1	10	Smoke	F	Room 109			Detector	PD/Sounder	1	10	Smoke	Room 109			
DINAC	Class B		1	Continuous	Sile N	VAC 1			DINAC	Class B		1	Continuou	NAC1			
DINAC	Class B		2	Continuous	Sile N	VAC 2			NAC	Class B		2	Continuou	NAC 2			
		-							141			40					
									P.1						<u> </u>		
Event notifi	cations																
Event			Printer			Telco Ac	count		IP	Account			CID				
Disable	and the second		Yes			Account	1		Ar	count 1			570				
and the second se		_							1.00	antendola?			Traces -				
•															•		



To activate multiple sounder bases in the same room, you'll have to create a separate correlation group for each of those rooms. In the screen shot below, room 101 has two smoke detectors, each with sounder bases. The two smoke detectors were added to a new Correlation Group (2) to both the input and output sections (on the right side). Remember, the sounder base can be treated like a signal circuit, which is why it's available as an output (shown in lower left). Since we do not want these smoke detectors to activate a general alarm, they would have been removed from correlation group 1.

Eiro System Co Correlations	onfiguration Utility.													(주) V - (주) V
Available i	inputs and	outpu	ts					Correlatio	ons					
Panel reporting	: Device							002						
								Activation	n Count 📔 🌲	al Silence				
Drag and drop avai	ilable inputs and outpu	ts to correla	ations					T						
Inputs 🔽	Detector 🔽 Mod	ule 🔽	Event		r			Inputs						
Group	Description	Loop	Address	Туре	Message line 1	Message line		Group	Description	Loop	Address	Туре	Message line 1	Messag
Detector	PD	1	1	Smoke	Room 101	Smoke 1		Oetector	PD	1	1	Smoke	Room 101	Smoke
Oetector	PD	1	2	Smoke	Room 101	Smoke 2		Oetector	PD	1	2	Smoke	Room 101	Smoke
Oetector	PD	1	3	Smoke	Room 102									
Oetector	PD	1	4	Smoke	Room 103			1						
Oetector	PD	1	5	Smoke	Room 104		-							
Oetector	PD	1	6	Smoke	Room 105									
Oetector	PD	1	7	Smoke	Room 106									
O Detector	PD	1	8	Smoke	Room 107									
Detector	PD	1	9	Smoke	Room 108									
Detector	PD	1	10	Smoke	Room 109									
Module	270	1	11	Pull Station	First Floor Hallway			-						
Event					Loop 1 Unconfigured			-						
Event					Common Trouble									
•		-	4	1	ŀ	Þ		•						•
Outputs	🔽 Module 🔽 NA	с 🔽 В	elay / Sounder	3				Outputs						
Group	Description	Loop	Address	Туре	Message line	I Message lir		Group	Description	Loop	Address	Туре	Message line 1	Messa
Oetector	PD/Sounder	1	1	Smoke	Room 101	Smoke 1		Detector	PD/Sounder	1	1	Smoke	Room 101	Smoke
Detector	PD/Sounder	1	2	Smoke	Room 101	Smoke 2	1.000	Detector	PD/Sounder	1	2	Smoke	Room 101	Smoke
Detector	PD/Sounder	1	3	Smoke	Room 102		-	-						
Detector	PD/Sounder	1	4	Smoke	Room 103									
Detector	PD/Sounder	1	5	Smoke	Room 104		4							
Detector	PD/Sounder	1	6	Smoke	Room 105									
Detector	PD/Sounder	1	7	Smoke	Room 106									
Detector	PD/Sounder	1	8	Smoke	Room 107									
Detector	PD/Sounder	1	9	Smoke	Boom 108									
Detector	PD/Sounder	1	10	Smoke	Boom 109					-	-	1		
INAC	Clace B	10	1	Continuous	Sile NAC1									_
ENNAC	Class B		2	Continuous	Sile NAC2					-				
401010	Oldasa D		-	Continuous										
4	- (l)	1.1			A	Þ		4		-				•
Event notif	ications													
Event			Printer		Telco	Account		IP Account CID						
Disable			Yes		Accou	int 1		A	count 1			570		
			-											