



DNA Fusion Lockdown: Utilizing a Duress Button



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The DNA Fusion[™] Access Control Software and SSP[™] Security System Processor shall be installed in accordance with this installation manual and in accordance with the National Electric Code (N.E.C), ANSI and NFPA 70 Regulations and recommendations.

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Lockdown Utilizing a Duress Button

This guide explains using a duress button to "lockdown" a site in case of emergencies. This method requires additional wiring for adding duress/panic switches. This method requires a monitor point configured to a switch or button. This switch/button, when pressed, activates the monitor point that causes the "lockdown." Configuring a "return-to-normal" command returns the system to its previous state.

Using this method to "lockdown" a system shuts off the desired time schedules and will prevent entry to anyone with those times schedules assigned. This method is used in tandem with a latching switch or a

duress button. Pressing the button will activate the configured Monitor Point.

DISCLAIMER

These methods are only suggestions on how to "lockdown" a system in cases of emergencies. There are other methods of locking down a system that is not in this guide. Choose the best method for your system.

Instructions

Step 1: Wire Duress Button - Wire the duress button (panic button) to an input point.

Step 2: Create the User Commands - Two Direct Commands are created for the initial lockdown and the "Return to Normal" command.

Step 3: Create Host Based Macros - Creating Host Based Macros allows for the execution of the Direct Commands.

Step 4: Configure a Monitor Point - Configure the input point to execute the Host Based Macro.

Step 5: Test the Duress Button and Lockdown - Press the duress button (Panic Button) to begin the lockdown. All desired doors are locked. After the lockdown is complete, use the "Return to Normal" command to enable door schedules.

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Wire the Duress Button

A common duress button is wired to the Input point of a panel. The diagram below is an example of a common duress button wired to Input 1 of an RSC-2.



Note: A supervised input circuit requires two resistors to facilitate proper reporting. The standard supervised circuit requires 1K ohm, 1% resistors and should be located as close to the sensor as possible. See System Hardware Manual for more information on input wiring.

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Create the User Commands

This protocol requires creating two (2) sets of User Commands. One User Command will disable time schedules. The second User Command returns the system to the previous state.

In DNA Fusion:

- 1. **Click** on Hardware from the main menu.
- 2. **Select** Direct Commands > Manage.



The User Command Editor opens.

To create the first set of User Commands:

- 1. If needed, click on the 🕂 icon to add a new User Command.
- 2. Enter a Name for the User Command (Ex. Lockdown).

🍘 User Commands E	ditor							×
User Commands Name: Command ID: Password Mode:	Lockdown	•						
Direct Commands Address		Command		Title		Operation		
Add 🗸	∲ E <u>d</u> t	<u> </u>]					
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- 3. Select the Add button to open the Add Direct Command Editor.
- 4. In the Add Direct Command Editor, **add** a Title for the Direct Command.
- 5. For the Command drop-down menu, select Control Time Schedule.
- 6. For the Address drop-down, **select** the desired time schedule. Ensure that the correct Site and SSP are selected.

7. For the Operation drop-down, select Override Off.



To create the second set of User Commands:

- 1. If needed, click on the Add icon to add a new User Command.
- 2. Enter a Name for the User Command (Ex. Return to Normal).
- 3. Click on the Add button to open the Add Direct Command Editor.
- 4. Add a Title for the Direct Command.
- 5. For the Command drop-down menu, select Control Time Schedule.
- 6. For the Address drop-down menu, **select** the desired time schedule. Ensure that the correct Site and SSP are selected.
- 7. For the Operation drop-down menu, select Resume Normal State.



Create the Host Based Macros

- 1. **Open** the Trigger Macros browser.
- 2. Click on the Host Based Macros tab.



3. Right-click on the Site and select Add Host Macro.

Host Based Macros		
Host Based	Macros	
🗄 🔲 Site	OO TRAIC WAY IMD	
	Properties	
	Add Host Macro	
	Remove Host Macro	
	Execute Host Macro	
	Journal 🔸	_
	Where Used	
LAII L Triggers	🕑 Macros 🛛 🖓 Host Based Macros	5

The Host Based Macros dialog opens.

- 4. Add a Macro Description.
- 5. Under Local Object Type (Controlling Object), select the Monitor Point type from the drop-down menu.
- 6. Under Remote Object (Controlled Object), select the HDW: Execute Direct Command.
- 7. For the Action 1 Event ID, select event 018: Monitor Point Active.
- 8. **Click** on the Build button.

Host Based I	/lacro (Global I/O)						×
Macro Descript	ion: 4 Add Description Here			Schedule:	*NONE*		-
Loca	Object Type (Controlling Object)		Remote Obj	ect (Control	led Object)		
Type:	Monitor Point	Type:	HDW: Execute Di	rect Comm	and		
Action 1							
Event ID:	018: Monitor Point Active	Action:	All			•	
Parameters:						😻 <u>B</u> uild	
4-11-2					— L		
Event ID:	000. *N*	Action	All			-	
Parametern		Action.	All				
r didileters.						No Bring	
Action 3							
Event ID:	000: *None*	Action:	All				
Parameters:						😻 <u>B</u> uild	
A stine A							
Event ID:	000: *None*	Action:	All			-	
Parameters:		_				M Data	
	L					1 to Dalia	
				I	<u>O</u> K	Cancel	
				· · · · ·			

- 9. **Select** the "Lockdown" Direct Command.
- 10. Click Ok.
- 11. For the Action 2 Event ID, select event 017: Monitor Point Inactive.
- 12. Click on the Build button.

🍘 Host Based N	Macro (Global	I/O)							Х
Mages Descript	iani d	Add Description L	1979			Sahadular	THONE		
Macro Descript	Jon. 4	Add Description P	lere			Scriedule.	*NONE*		
Loca	Object Type	e (Controlling Object)		Remote O	oject (Contro	lled Object)		
Type:	Monitor Poi	nt	•	Туре:	HDW: Execute I	Direct Comm	and		*
C Action 1									
Event ID:	018: Monito	or Point Active	-	Action:	All				-
Parameters:	4							😻 <u>B</u> uild	
Action 2									
Event ID:	017: Monito	or Point Inactive	-	Action:	All		- F		
Parameters:								😻 <u>B</u> uild	
Action 3									
Event ID:	000: *None	*	-	Action:	All				-
Parameters:								😻 <u>B</u> uild	
Action 4									
Event ID:	000: *None	*	-	Action:	All				•
Parameters:								😻 <u>B</u> uild	
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13. Select the "Return to Normal" Direct Command.

Host Direct Comm	ands				\times
Direct Command:	Return	to Normal			•
	×	<u>C</u> ancel	 Image: A start of the start of	<u>О</u> К	

- 14. Select Ok to save the Direct Command.
- 15. In the Host Based Macro dialog, click on Ok to complete the configuration.

🍘 Host Based N	Aacro (Global	I/O)							×
Macro Descripti	on: 4	Add Descriptio	n Here			Schedule:	*NONE*		-
Local	Object Type	e (Controlling Obje	ect)		Remote Ob	ject (Contro	lled Object)		
Туре:	Monitor Poi	nt		• Туре:	HDW: Execute D	irect Comm	and	•	
Action 1									
Event ID:	018: Monito	or Point Active		 Action: 	All			-	
Parameters:	4							😻 <u>B</u> uild	
Action 2									
Event ID:	017: Monito	or Point Inactive		- Action:	All			-	
Parameters:	5							😵 <u>B</u> uild	
Action 3									
Event ID:	000: *None	*		Action:	All			-	
Parameters:								😻 <u>B</u> uild	
Action 4									
Event ID:	000: *None	*		Action:	All			-	
Parameters:								💓 Build	
						1	ок	Cancel	

Configure the Monitor Point

Once all the Direct Command and Host Based Macros are created, the Monitor Points must be configured. A duress button (panic button) should be wired to an Input Point of a panel.

To configure the Input Point:

- 1. **Open** the Hardware browser.
- 2. **Expand** the desired SSP's hardware tree.
- 3. **Expand** the desired SIO tree.
- 4. **Right-click** on an Input Point.

Ensure that the correct Input Point is selected.



- 5. Select Properties.
- 6. Add a Description for the Input Point (Ex. Duress Button).

Common Properties Input Properties	Common Properti	es			
Notes	Site:	Site 1: 00-TRN	G-WX-JM2		Churchen
	Controller:	1.3: Warehouse	- MP02		Situations
	Sub-Controller:	1.3.1: On board	SIO		
	Point/Reader #:	1 Type:	Monitor Point	ACM Number:	0
	Distribution / Ot	ici i			
	Description:	Duress Button			
	Home Page:				
		Do Not Load H	ome Page on Alarm		
	Alarm Properties				
	Alarm Setting:	Global Settings	Alarm States:	Active	
		 Local Settings 		Faults	
		O Never an Alarm		Comm Loss	
	Alarm Priority:	1 -			
	Alam Media File				
	Administration and the				
V Ok	Alarm Text:				
X Cancel	Templates				
	Template Name:	*None*		•	
Help	Description:				
	Application Notes:				

- 7. Click on Input Properties.
- 8. Under Advanced Properties, **select** the "lockdown" Host Based Macro.

Hardware Properties: Input	Point 1.3.1.l1		×
Common Properties	Input Properties		
Notes	- Input Point Properties		
	Circuit Type:	Normally Closed	-
	Sensitivity:	5 scans (85 ms) 🔹	
	Hold Time:	0 second	
	Log Specification:	Do not log contact COS if masked	-
	Latching Mode:	NORMAL	
	Entry Delay:	0 (seconds)	
	Exit Delay:	0 (seconds)	
	Advanced Properties		
	Camera:	*None*	
	Host Based Macro:	*None*	🔹 😻 Edit
V Ok			
X Cancel			
Help			

Test the Duress button and Lockdown

Test the switch/button to ensure that the correct Input Point is activated. Configure the Input Properties to the desired settings. Open Options recommends adding a description to the Input Point used for the switch/button.

To verify that the switch/button is functioning correctly:

- 1. **Ensure** that the Input Point on the board matches the input point configured in DNA Fusion.
- 2. **Press** the switch/button.

Event 018: Monitor Point Active should appear on the Event Grid, followed by an executed Direct Command and a Deactivation of a schedule.

\odot	10/28/20 11:42:03	1.3.T2	Front Door Door Follow Schedule: De-Activate	227	Trigger Became Active	
\odot	10/28/20 11:42:03	1.3.TS4	Warehouse Day	223	Became Inactive	
1	10/28/20 11:42:03	Station 0	DNA Driver	423	Time Scheduled Controlled by	Execute Direct Command (4) from
۴	10/28/20 11:42:02	• 1.3.1.11	Duress Button	18	Monitor Point Active	4: Status = 0x01 (was 0x00) <0x01>
۵	10/28/20 11:42:03	🕕 Site 1	OO-TRNG-WX-JM2	408	Direct Command Executed by D	Execute Direct Command (4) from
ĥ	10/28/20 11:42:03	🕕 Site 1	OO-TRNG-WX-JM2	400	Executed Host Based Macro	1.3.1.I1: Event: 18 - Executed Host
	10/28/20 11:42:02	📕 1.3.D1	Front Door	111	Reader Mode: Unlocked	

The lockdown is initiated and the configured doors are locked.

3. To deactivate the lockdown command, **select** the "Return to Normal" command that was created.

[Events]											
w DNA	Han	dware	Personnel	Events	Repo	orts	Tools	Wind	w	Help	
	餾	Down	load			C]		6	3	(
Personnel	ès,	Contro	ol			rig Ma	jers tros	Watch	HTN	/IL wer	Al
		Direct	Commands		•		Man	age			
: 00-TRN	8-	Proper	ties				Exec	ute			res
: Office		Promo	te SSP			0	Lock	down			1.2
: Storage P		Add			•		Lock	down1			1.3
1.3.D1		View H	lardware		F7		Retu	rn to Nor	mal		1.3
1.3.D2	_					ET.				-	1.3
levators		Status					10/26/	20 10:1	7:24		1.3
ИPGs		ACM S	tatus Report				10/26/	20 10:1	7:14		1.3
Time Scher		Hardw	are Monitor	Report	•	Ft.	0/26	20 10-1	6.25		1.2
1.3.1: Sto		Defau	lts			H				_	
1.3.2: Em		Card E	ormate			•	10/26/	20 10:1	6:24	-	Sta
• 1.3.2.1	-	Web S	anrica Cradar	atials		a :	10/26/	20 10:1	6:23	-	Sta
13.2.1	•••	Triaga	r Coder	10013			10/26/	20 10:1	5:48		1.3
• 1.3.2.1		Add to	Macro			a :	10/26/	20 10:1	5:47	9	Stat
• 1.3.2.1			, macroini				10/26/	20 10:1	5:47	-	Stat
• 1.3.2.1		Templa	ates			Et.	0/26	20 10-1	2.40		1.2
1.3.2.0		Home	page			H	10/20/	20 10.1	5.40	-	1.5
• 1.3.2.0	04				TE		10/26/	20 09:4	5:05		1.3
• 1.3.2.0	D 5						10/26/	20 09:3	1:17		1.3
• 1.3.2.0	D6			~	11.		10/26/	20 09:3	1:15		1.3

Adding the "Return to Normal" Command to the Toolbar

For ease of access, add the Direct Command to the DNA Fusion Toolbar.

1. **Click** on the Toolbar Options and **select** the drop-down menu.

dnaFusion	- Events											
File View	DNA Har	dware Pers	onnel Eve	nts Reports	Tools	Window	Help		<u> </u>		1	
\$			A	\odot	Þ	0						
DNA	Personnel	Hardware	Access	Time	Triggers	Alarms	Events	DVR	Video			
Properties			Levels	Schedules	Macros		Manager	Manager	Manage	r 🔻		
Hardware				Ψ×		HTML View	ver 📃 Ev	rents ×		Toolb	ır Options	
Site:	ID Event Time Address Description											
□ → ■ 1.1: Main Office									ours			

2. Select Add or Remove Buttons > Customize

	Event Manag	s er	DVR Manager	Video Manager -				
ar	ms	Add	or Remove	Buttons 🔷 👻		Standard	►	
	Addres	55		Description		Customize		Index
8	1.3	8.D1		Lobby Door/	War	ehouse		700
,	1.3 Storage Fa							136
								_

- 3. In the Categories menu, select Direct Commands.
- 4. Select "Return to Normal."



5. Click Close.

The "Return to Normal" command will appear in the Toolbor.



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