



OPEN OPTIONS®
— ACCESS TECHNOLOGY —

DNA Fusion Lockdown: Utilizing Direct Commands



This manual is proprietary information of Open Options, LLC. Unauthorized reproduction or distribution of this manual is strictly forbidden without the written consent of Open Options, LLC. The information contained in this manual is for informational purposes only and is subject to change at any time without notice. Open Options, LLC. assumes no responsibility for incorrect or outdated information that may be contained in this publication.

DNA Fusion™ and SSP™ are trademarks of Open Options, LLC.

The DNA Fusion™ Access Control Software and SSP™ Security System Processor use equipment that generates, uses, and radiates radio frequency energy. If not installed and deployed in accordance with the guidelines of this installation manual, they may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be required to correct the interference at their own expense.

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.

Publish Date: July 22, 2021

Manual Number: SLGDC 1.0

© Copyright 2002-2021 Open Options, LLC. All rights reserved.

Warranty

All Open Options products are warranted against defect in materials and workmanship for two years from the date of shipment. Open Options will repair or replace products that prove defective and are returned to Open Options within the warranty period with shipping prepaid. The warranty of Open Options products shall not apply to defects resulting from misuse, accident, alteration, neglect, improper installation, unauthorized repair, or acts of God. Open Options shall have the right of final determination as to the existence and cause of the defect. No other warranty, written or oral is expressed or implied.



16650 Westgrove Dr | Suite 150

Addison, TX 75001

Phone: (972) 818-7001

Fax (972) 818-7003

www.ooaccess.com

Open Options Software License Agreement

THE ENCLOSED SOFTWARE PACKAGE IS LICENSED BY OPEN OPTIONS, LLC. TO CUSTOMERS FOR THEIR NON-EXCLUSIVE USE ON A COMPUTER SYSTEM PER THE TERMS SET FORTH BELOW.

DEFINITIONS: Open Options shall mean Open Options, LLC, which has the legal right to license the computer application known as DNA Fusion herein known as the Software. Documentation shall mean all printed material included with the Software. Licensee shall mean the end user of this Open Options Software. This Software Package consists of copyrighted computer software and copyrighted user reference manual(s).

LICENSE: Open Options, LLC, grants the licensee a limited, non-exclusive license (i) to load a copy of the Software into the memory of a single (one) computer as necessary to use the Program, and (ii) to make one (1) backup or archival copy of the Software for use with the same computer. The archival copy and original copy of the Software are subject to the restrictions in this Agreement and both must be destroyed or returned to Open Options if your continued possession or use of the original copy ceases or this Agreement is terminated.

RESTRICTIONS: Licensee may not sub license, rent, lease, sell, pledge or otherwise transfer or distribute the original copy or archival copy of the Software or the Documentation. Licensee agrees not to translate, modify, disassemble, decompile, reverse engineer, or create derivative works based on the Software or any portion thereof. Licensee also may not copy the Documentation. The license automatically terminates without notice if Licensee breaches any provision of this Agreement.

TRANSFER RIGHTS: Reseller agrees to provide this license and warranty agreement to the end user customer. By installation of the software, the end user customer and reseller agree to be bound by the license agreement and warranty.

LIMITED WARRANTY: Open Options warrants that it has the sole right to license the Software to Licensee. Upon registration by the Licensee, Open Options further warrants that the media on which the Software is furnished will be free from defects in materials and workmanship under normal use for a period of twelve (12) months following the delivery of the Software to the Licensee. Open Options' entire liability and your exclusive remedy shall be the replacement of the Software if the media on which the Software is furnished proves to be defective. EXCEPT AS PROVIDED IN THIS SECTION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. IN PARTICULAR, EXCEPT AS PROVIDED IN THIS SECTION, WITH RESPECT TO ANY PARTICULAR APPLICATION, USE OR PURPOSE, LICENSOR DOES NOT WARRANT THAT THE PRODUCTS WILL MEET THE LICENSEE'S REQUIREMENTS, THAT THE PRODUCTS WILL OPERATE IN THE COMBINATIONS OF 3RD PARTY SOFTWARE WHICH THE LICENSEE MAY SELECT TO USE, OR THAT THE OPERATION OF THE PRODUCTS WILL BE UNINTERRUPTED OR ERROR FREE. NEITHER OPEN OPTIONS, NOR ITS VENDORS SHALL BE LIABLE FOR ANY LOSS OF PROFITS, LOSS OF USE, INTERRUPTION OF BUSINESS, NOR FOR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND WHETHER UNDER THIS AGREEMENT OR OTHERWISE. IN NO CASE SHALL OPEN OPTIONS' LIABILITY EXCEED THE PURCHASE PRICE OF THE SOFTWARE.

The disclaimers and limitations set forth above will apply regardless of whether you accept the Software.

TERMINATION: Open Options may terminate this license at any time if licensee is in breach of any of its terms or conditions. Upon termination, licensee will immediately destroy the Software or return all copies of the Software to Open Options, along with any copies licensee has made.

APPLICABLE LAWS: This Agreement is governed by the laws of the State of Texas, including patent and copyright laws. This Agreement will govern any upgrades, if any, to the program that the licensee receives and contains the entire understanding between the parties and supersedes any proposal or prior agreement regarding the subject matter hereof.

Lockdown Utilizing Direct Commands

This guide explains how to use Direct Commands in DNA Fusion to execute site lockdowns. This lockdown procedure requires the creation of a "System Lockdown card" with the lockdown command added. This method requires a Trigger Event to initiate the lockdown.

Direct Commands execute the "Lockdown" for the system. After creating the Direct Commands, configure a series of Triggers and Macros to lock the desired doors. A Trigger Event changes the Door Modes to Locked. Different events may require additional adjustments to this method to ensure all the doors are locked. Add the trigger code to initiate the "Lockdown" command.

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: *Create the Direct Commands* - In DNA Fusion, create the "Lockdown" and "Return to Normal" commands. Ensure that a Direct Command is added to each desired door.

Step 2: *Create the Dummy Macro* - Create an empty Macro to link the Trigger. The "Dummy Macro" is created through the Triggers Macros browser.

Step 3: *Create the Trigger* - Create a trigger in the Triggers Macros. Add an Access Granted Trigger Event. The "System Lockdown Card" is responsible for triggering the event (Access Granted). The Trigger must Require a Match 1 operation that will prevent any card from triggering the "lockdown."

Step 4: *Create a Host Based Macro* - In the Trigger Editor select the Host Based Macros edit button. This Host Based Macro will execute the Direct Command.

Step 5: *Create a System Lockdown Card* - If a card is being used to execute the "lockdown," a cardholder will need to be created. Ensure that the cardholder has the correct Trigger Code set.

OR

Step 5: *Add Commands on the DNA Fusion Toolbar* - If a card is not used, add the "lockdown" commands on the DNA Fusion toolbar.

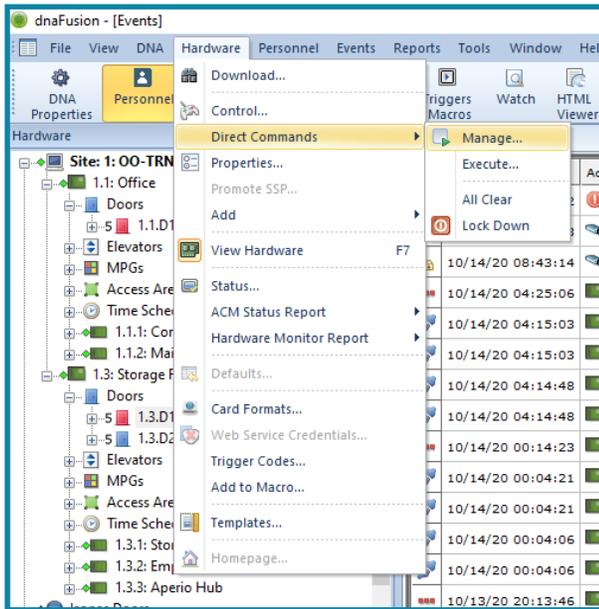
This Page Intentionally Left Blank

Create the Direct Commands

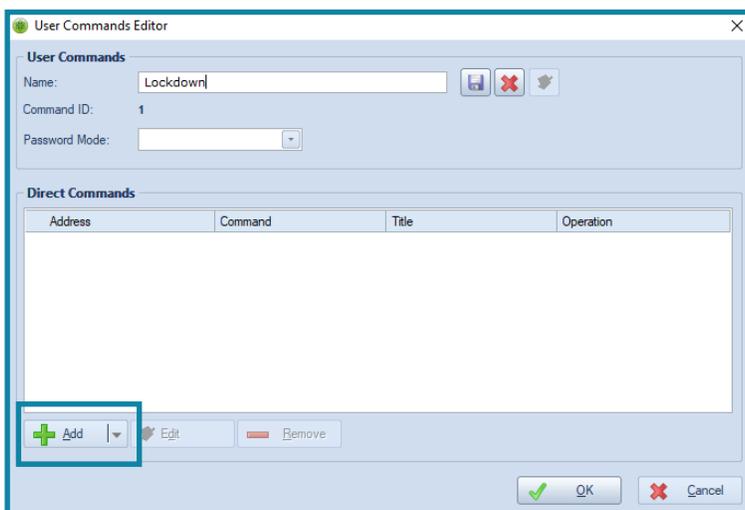
In the User Commands Editor, create a Direct Command for each desired door. When the "Lockdown" is in effect, the Direct Commands will execute and lock the doors. A second User Command is created to cancel the override and return the system to the normal operating mode.

Set Temporary Override Mode Direct Command

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

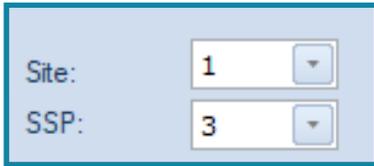


3. **Add** a Name for the User Command (Ex. Lockdown).
If needed, **click** on  to create a new User Command.
4. **Click** on the Add Button.
5. In the Add Direct Command Editor dialog, **enter** a Title.
6. **Click** on the Command drop-down menu and **select** Set Temporary Override Mode.



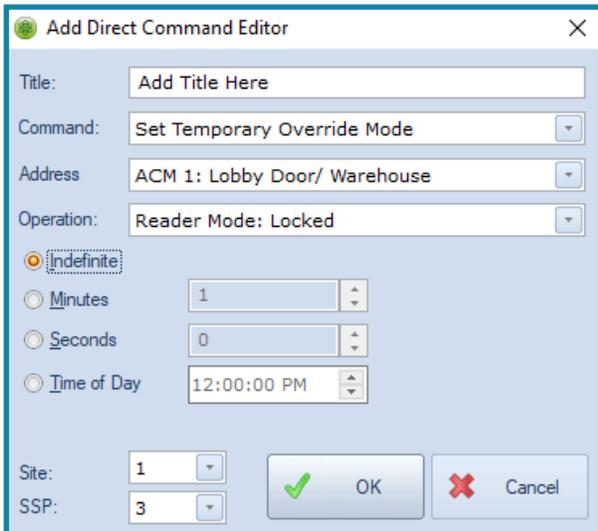
7. **Click** on the Address drop-down menu and **select** the desired door.

If the desired door is not in the Address drop-down menu, ensure that the correct Site and SSP are selected.



A screenshot of a form with two dropdown menus. The first is labeled 'Site:' and has the value '1' selected. The second is labeled 'SSP:' and has the value '3' selected.

8. **Click** on the Operation drop-down menu and **select** Reader Mode: Locked.
9. **Select** Indefinite.



A screenshot of a dialog box titled 'Add Direct Command Editor'. It contains the following fields and options:

- Title: Add Title Here
- Command: Set Temporary Override Mode
- Address: ACM 1: Lobby Door/ Warehouse
- Operation: Reader Mode: Locked
- Radio buttons for duration: Indefinite (selected), Minutes (1), Seconds (0), Time of Day (12:00:00 PM)
- Site: 1
- SSP: 3
- Buttons: OK (with a green checkmark icon) and Cancel (with a red X icon)

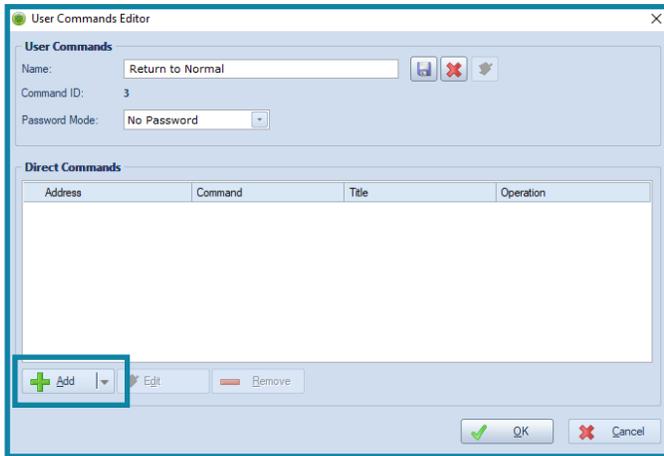
10. **Click** Ok to add the Direct Command.
11. **Click** on the Save  icon to save the User Command.

Once the "Lockdown" commands are configured, if needed, add the "Lockdown" command to the DNA Fusion toolbar. See Add Commands to the DNA Fusion Toolbar section.

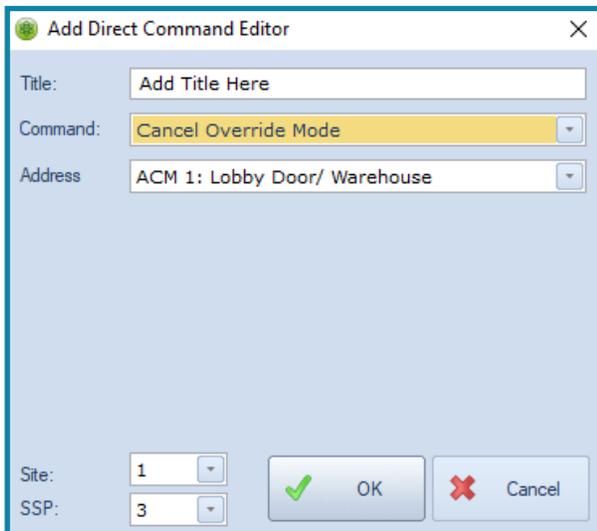
Note: Create a Direct Command for each desired door.

Cancel Override Mode Direct Command

1. **Click** on the  icon in the User Command Editor to add a new User Command.
2. **Enter** a Name for the User Command (Ex. Return to Normal).
3. If needed, **set** a Password Mode.
4. **Click** on the Add button to add a Direct Command.



5. **Add** a Title for the Direct Command.
6. For the Command drop-down menu, **select** the Cancel Override Mode command.
7. For the Address drop-down menu, **select** the desired door.
Ensure that the correct Site and SSP are selected if the desired door is not in the Address drop-down menu.



8. **Click** Ok.
The Direct Command is created for that door. Repeat the steps 1-8 for addition doors.
9. **Click** on the Save icon  to save the User Command.
10. **Click** Ok to exit the User Command Editor window.

Once the "Return to Normal" commands are configured, if needed, add the "Return to Normal" command to the DNA Fusion toolbar. See Add Commands to the DNA Fusion Toolbar section.

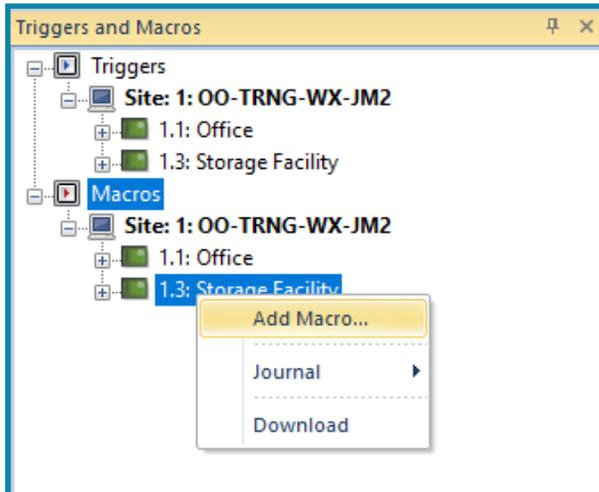
Note: A Direct Command must be created for each desired door.

This Page Intentionally Left Blank

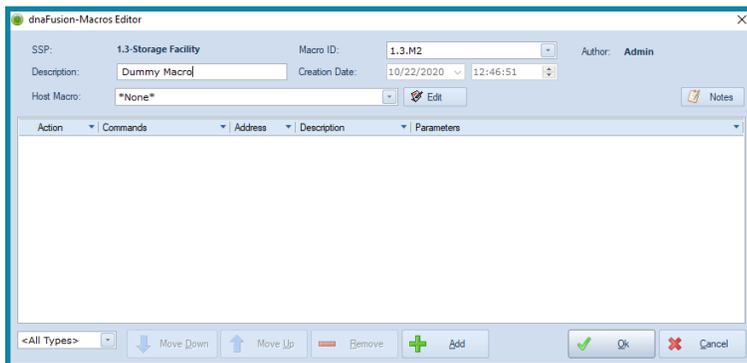
Create the Dummy Macro

Creating a dummy macro allows for the creation of the trigger. The dummy macro is created in the Triggers Macros browser.

1. **Open** the Triggers Macros browser.
2. If needed, **expand** the Macros tree or **select** the Macros tab at the bottom of the browser.
3. **Right-click** on the desired SSP and **select** Add Macro.



4. In the Macros Editor, **add** a Description for the dummy macro.



5. **Click** Ok to add the dummy macro.

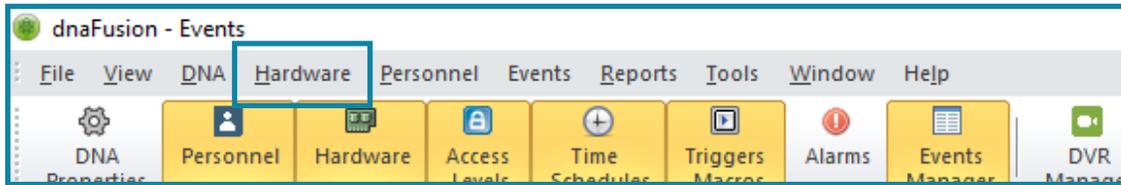
This Page Intentionally Left Blank

Create the Trigger

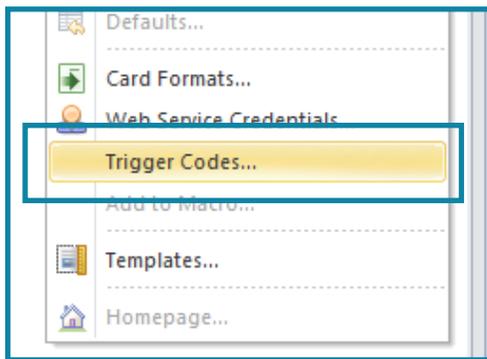
This trigger will initiate the Host Based Macro that will be created later in this guide. For this example, Requiring Match 1 is enabled. Enabling this option searches for the card with the correct trigger code.

To add the Trigger to DNA Fusion:

1. Add the Trigger Codes to DNA Fusion.
 - a. On the main menu, **select** Hardware.

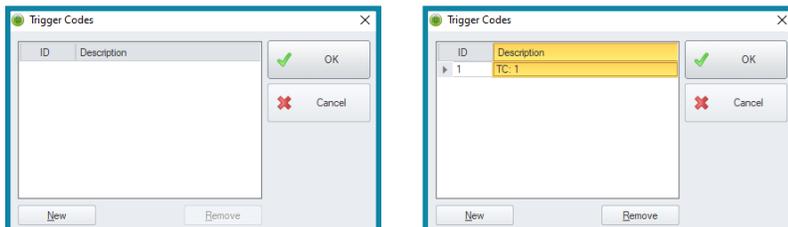


- b. **Click** on Trigger Codes.



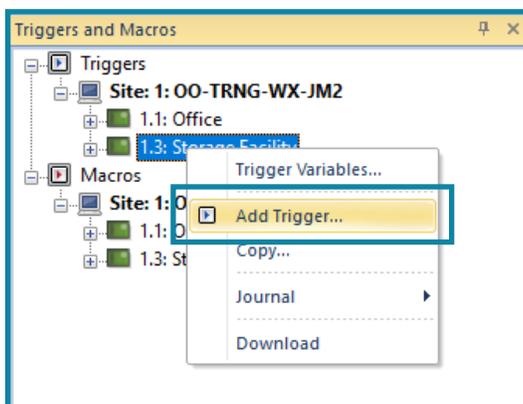
- c. **Click** on the New button to add a Trigger Code to DNA Fusion.

If needed, enter a description for the Trigger Code.



- d. **Click** OK.

2. **Expand** the Triggers tree or **select** the Trigger tab at the bottom of the browser.
3. **Right-click** on the desired SSP.
4. **Select** Add Trigger.



The Triggers Editor opens.

The screenshot shows the Triggers Editor window with the following configuration:

- Identification:** Address: 1.3.T3, Description: NEW Trigger...
- Trigger Detail:** Trigger Event: Area: Area Disabled, Area: *None*, Schedule: TS 001: Always
- Macro Link:** Macro ID: 001: Door Control Macro, Command: Execute Type 1 (Default)
- Trigger Variables and Arguments:** Four conditions, each with a dropdown set to *None* and radio buttons for ON and OFF.
- Host Based Macro:** Host Macro: *None*

5. **Enter** a Description for the Trigger.
6. For the Trigger Event, **select** DOOR: ACCESS Granted: (ANY CONDITION) from the drop-down menu.
7. For the Doors drop-down menu, **select** the desired door.
Card swiping the selected door will activate the "lockdown."
8. For the Macro ID drop-down menu, **select** the dummy macro that was created.

The screenshot shows the Triggers Editor window with the following configuration:

- Identification:** Address: 1.3.T3, Description: Lockdown Trigger
- Trigger Detail:** Trigger Event: DOOR: Access Granted: (ANY CONDITION), Doors: ACM 1: Lobby Door/ Warehouse, Schedule: TS 001: Always
- Macro Link:** Macro ID: 002: Dummy Macro, Command: Execute Type 1 (Default)
- Trigger Variables and Arguments:** Four conditions, each with a dropdown set to *None* and radio buttons for ON and OFF.
- Operation:** Require Match 1
- Trigger Code:** 001: Trigger Code 1
- Host Based Macro:** Host Macro: *None*

9. For the Operation drop-down menu, **select** Require Match 1.
10. For the Trigger Code drop-down menu, **select** the trigger code that DNA Fusion will search for.

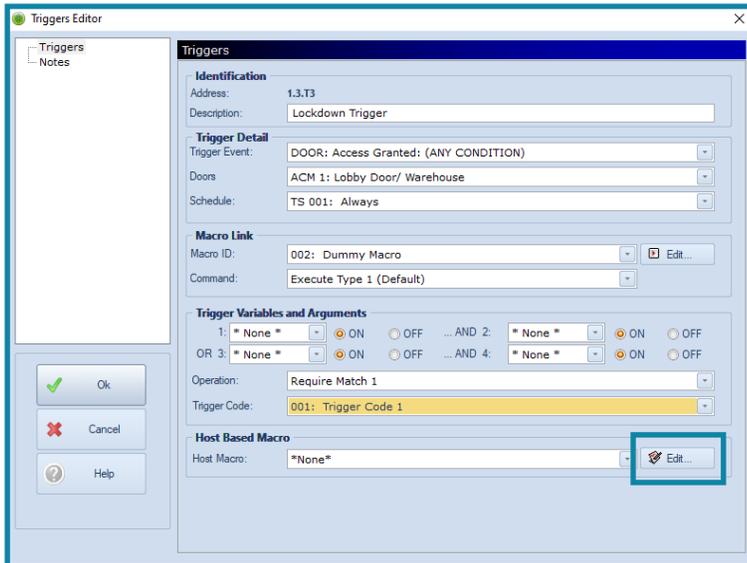
Note: Ensure that the Store Trigger Code flag checkbox is selected for the desired controller.

- a. **Right-click** on the desired controller.
- b. **Select** Stored Quantities.
- c. **Check** the Store Trigger Code flag.

Create a Host Based Macro

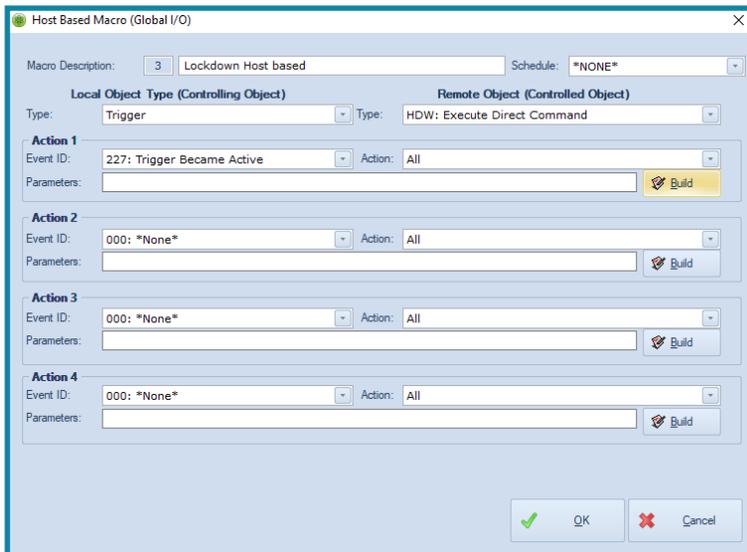
Creating the Host Based Macro will activate the Direct Command that was created and ultimately allow a card to execute the "lockdown" command.

1. In the Trigger Editor, **select** the Edit button.



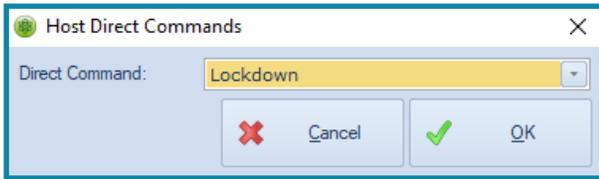
The Host Based Macros dialog opens.

2. **Enter** a Description for the Host Based Macro.
3. For the Local Object Type drop-down menu, **select** the Trigger type.
4. For the Remote Object drop-down menu, **select** the HDW: Execute Direct Command.
5. For the Action 1 Event ID, **select** 227: Trigger Became Active.
6. For the Action 1 Action, **select** All.



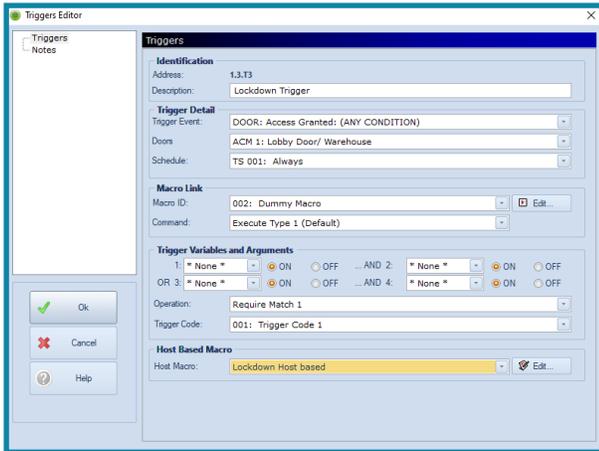
7. For Parameters, **click** on the Build button.
The Host Direct Commands window opens.

8. **Select** the "Lockdown" Direct Command that was created earlier.



9. **Click** Ok.

10. In the Host Based Macro dialog, **click** Ok.

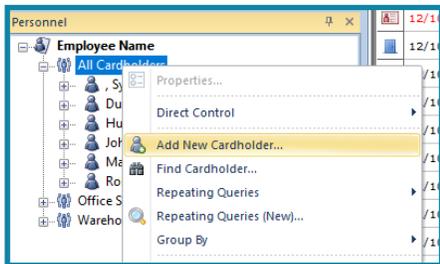


Create a System Lockdown Card

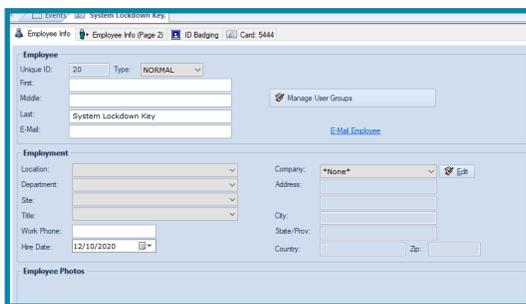
To execute the "lockdown" command using a card, create a new cardholder with the right Trigger Code.

1. **Open** the Personnel browser.
2. **Right-click** on All Cardholders and **select** Add New Cardholder.

This specific "Cardholder" is responsible for locking down all the configured doors in cases of emergencies.

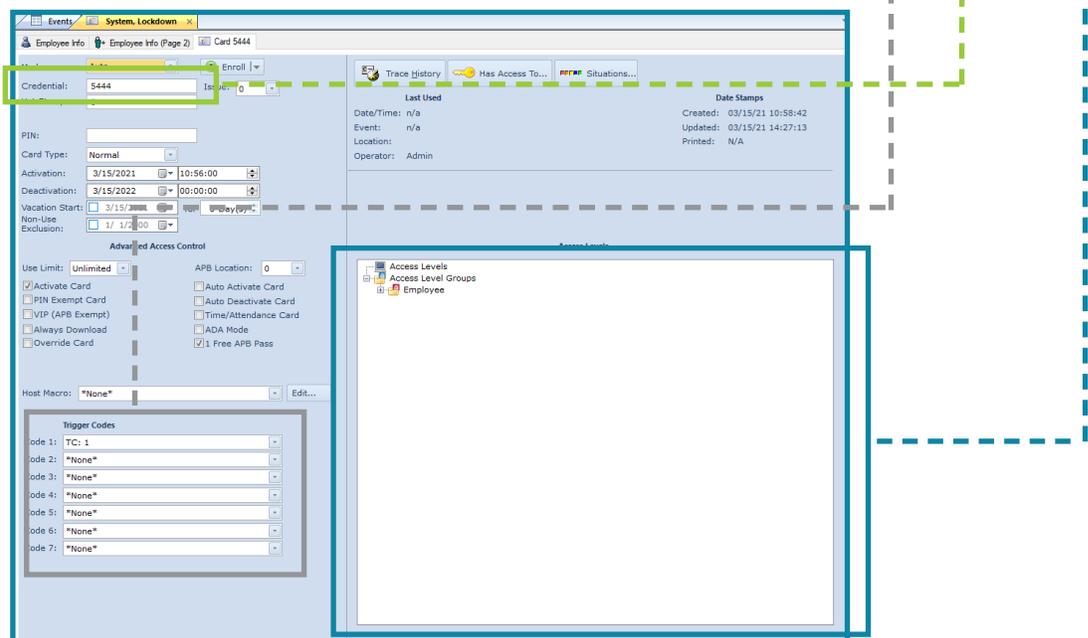


3. In the Personnel Record, **add** a name for the card (Ex: System Lockdown Card).



4. **Click** on the Card tab.
5. **Enter** desired card number in the Card text box.
6. In the Trigger Code section, **select** the trigger code used for the lockdown.
7. **Add** the desired Access level Group to the "System Lockdown Card."

Ensure that the triggered door(s) are located in the Access Level Group.



Swiping "System Lockdown Key" activates the trigger that was set at in the door. If the key triggers the correct event, all doors that were added in the Direct Command window will switch to Mode: Door Locked.

Testing the Lockdown Commands

To test out this lockdown method, swipe the "System Lockdown Card" at the assigned door. The Events Grid in DNA Fusion will look similar to the image below.

The screenshot shows the Events Grid with several rows of data. Callouts provide context for specific events:

- Doors added to the "Lockdown" command are locked.** Points to rows for ACM 2 and ACM 1.
- Direct Commands are executed.** Points to rows for "Execute Direct Command (1) from HBM 5/1".
- Door containing the Trigger.** Points to the row for ACM 1 with ID 1.2.D1.
- Lockdown card was swiped. Trigger Event = Access Granted.** Points to the row for "Access Granted: Door Used" with ID 72.

| ID | Device | Event Description | Time | Priority | Source |
|-----------|------------------|-------------------------------------|------|----------|---|
| 1.2.D2 | ACM 2 | Temp Reader Mode: Locked (REX Only) | 192 | 1.3 | |
| 1.2.D1 | ACM 1 | Temp Reader Mode: Locked (REX Only) | 192 | 1.3 | |
| Station 0 | DNA Driver | Temporary Door Mode Set by Operator | 439 | 1.3 | |
| Station 0 | DNA Driver | Temporary Door Mode Set by Operator | 439 | 1.3 | |
| 1.2.M1 | Dummy Macro | Command Issued With No Actions | 169 | 1.3 | |
| 1.2.T1 | Lockdown Trigger | Trigger Became Active | 227 | 1.3 | |
| Site 1 | OO-TRNG-WX-JM2 | Direct Command Executed by Driver | 408 | 1.3 | Execute Direct Command (1) from HBM 5/1 |
| Site 1 | OO-TRNG-WX-JM2 | Executed Host Based Macro | 400 | 1.3 | 1.2.T1: Event: 227 - Executed Host Macro 5/1 |
| 1.2.D1 | ACM 1 | Access Granted: Door Used | 72 | 1.3 | (3) Door: 0x01 (was 0x01), AccPh: 0x00 (was 0x00) |

Return to Normal

Follow the steps below to return the system to normal.

1. **Click** on Hardware on the main menu.
2. **Select** Direct Command > Return to Normal.



Add Commands to the DNA Fusion Toolbar

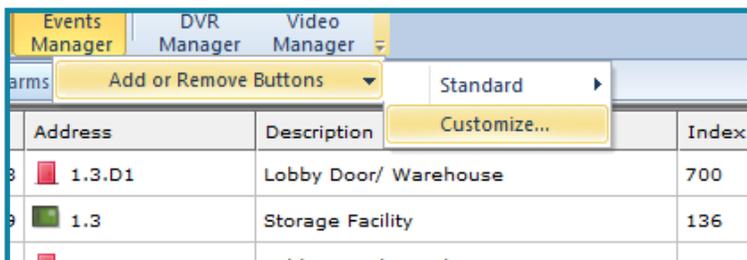
If a card will not be used to execute the “lockdown,” the commands can be added to the Toolbar as buttons.

Note: *It's possible to use a card and the toolbar to initiate lockdowns.*

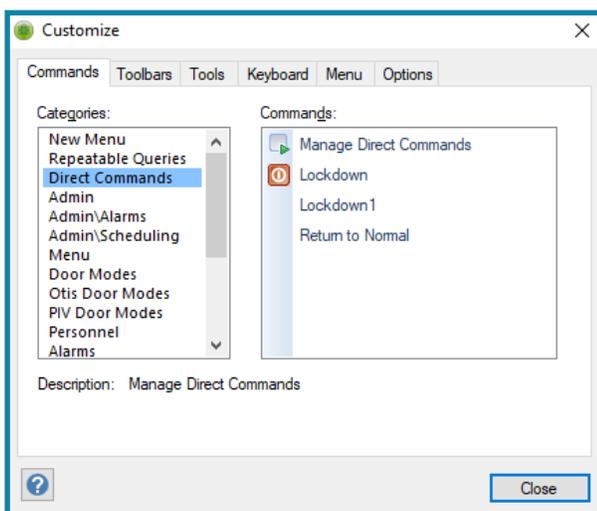
1. **Click** on Toolbar Options.



2. **Select** Add or Remove Buttons > Customize.



3. In the Categories menu, **click** on Direct Commands.



4. In the Commands menu, **drag and drop** the “Lockdown” / “Return to Normal” command to the Toolbar.
5. **Click** Close.



OPEN OPTIONS[®]
— ACCESS TECHNOLOGY —

16650 Westgrove Dr | Suite 150
Addison, TX 75001

Phone: (972) 818-7001

Publish Date | July 22, 2021

DNA Fusion Version | 7.8 or Greater

Manual Number | SLGDC 1.0

www.ooaccess.com