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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.

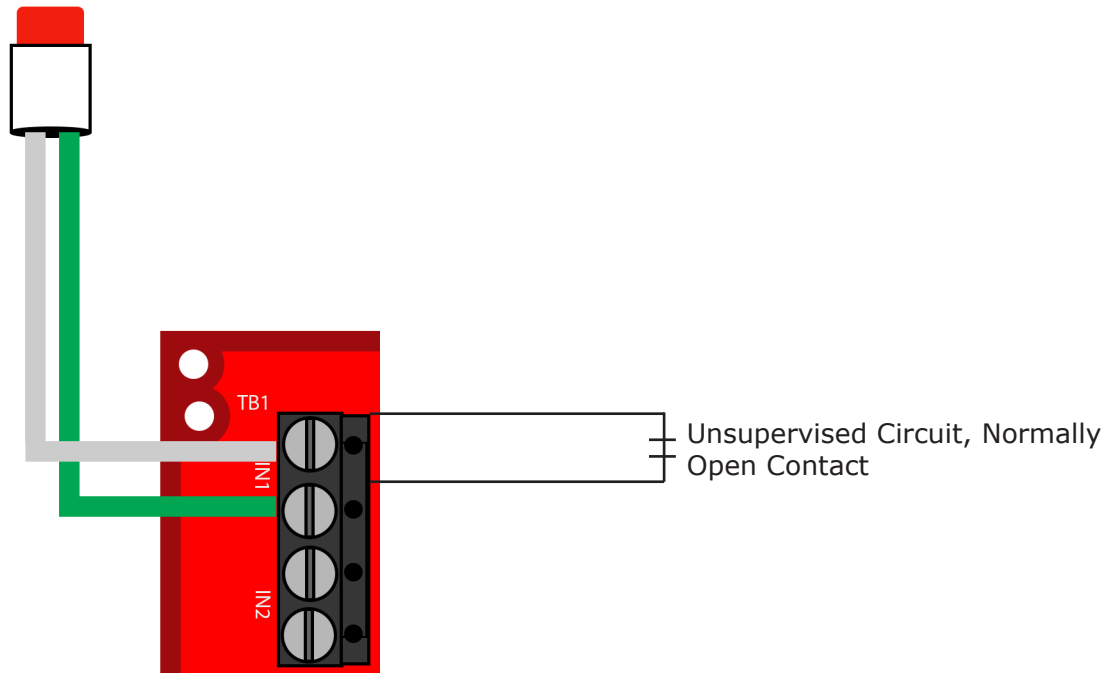
Step 4: *Configure a Monitor Point* - Configure the input point to execute the Host Based Macro.

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.

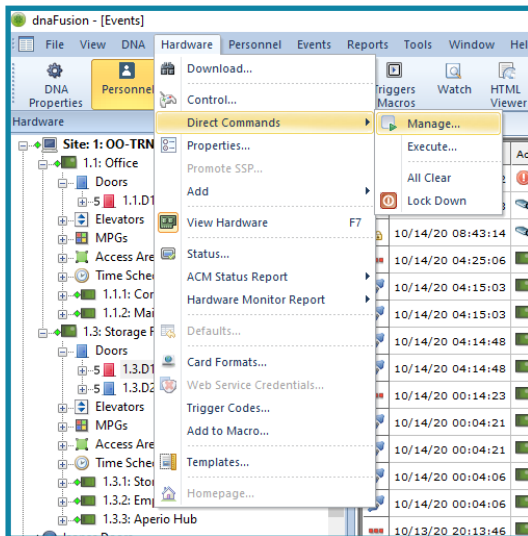
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Create the User Commands

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:

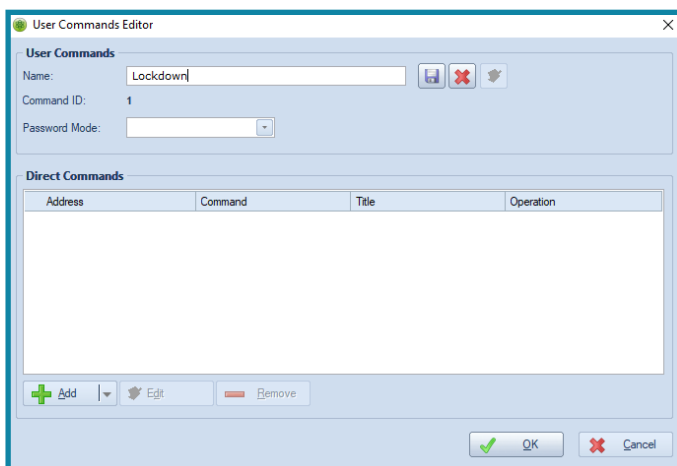
1. **Click** on Hardware from the main menu.
2. **Select** Direct Commands > Manage.



The User Command Editor opens.

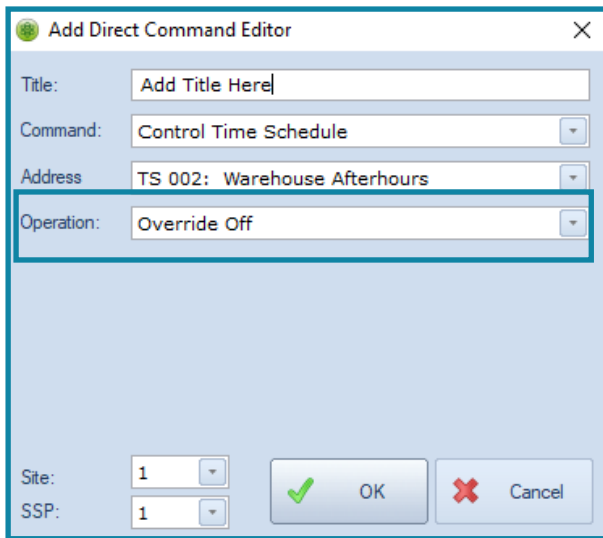
To create the first set of User Commands:

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



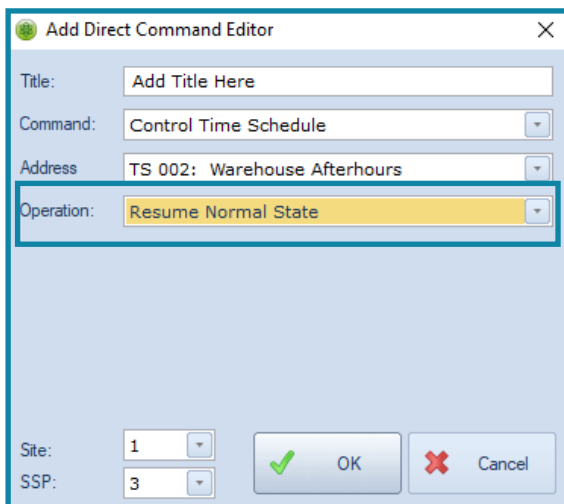
3. **Select** the Add button to open the Add Direct Command Editor.
4. In the Add Direct Command Editor, **add** a Title for the Direct Command.
5. For the Command drop-down menu, **select** Control Time Schedule.
6. For the Address drop-down, **select** the desired time schedule.
Ensure that the correct Site and SSP are selected.

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



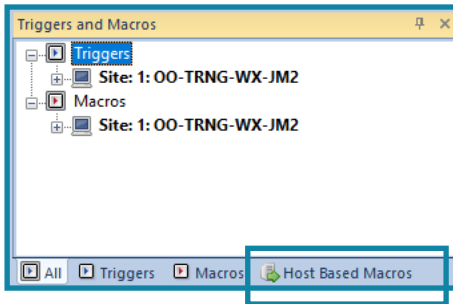
To create the second set of User Commands:

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.

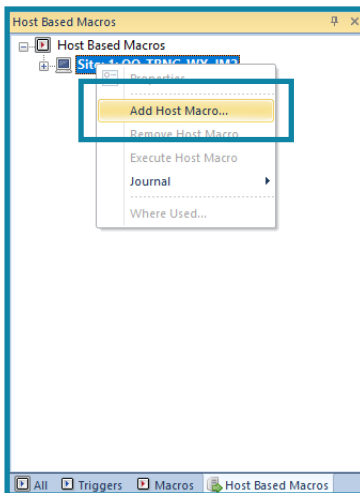


Create the Host Based Macros

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

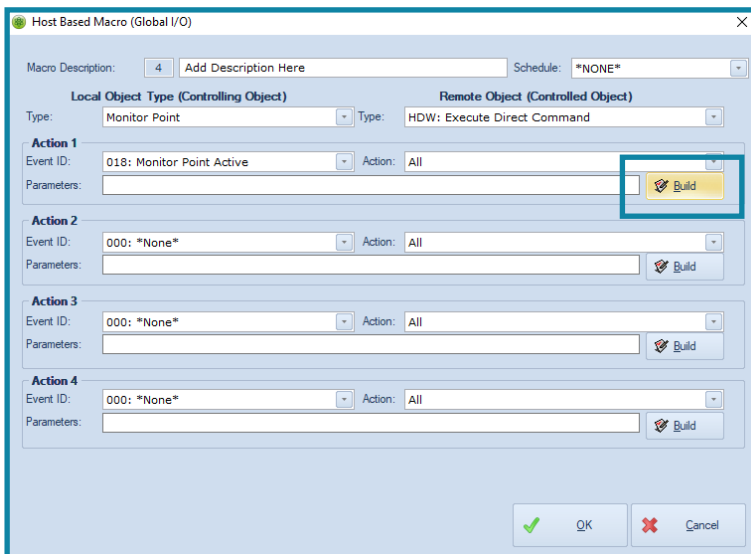


3. **Right-click** on the Site and **select** Add Host Macro.

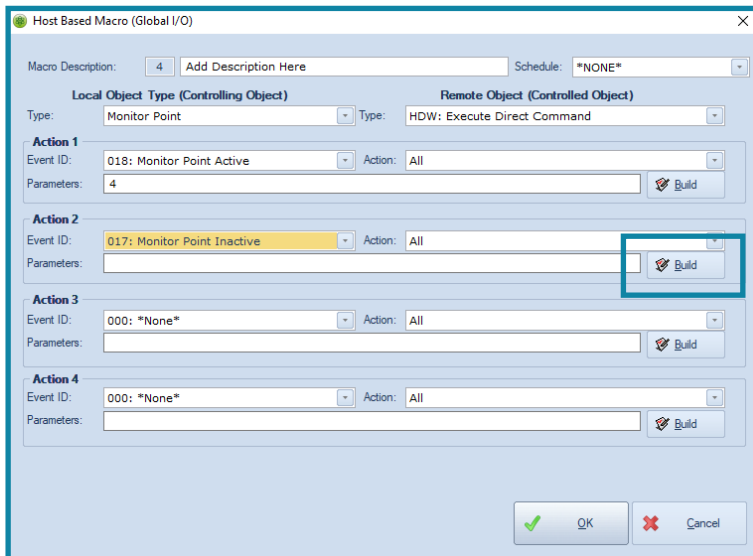


The Host Based Macros dialog opens.

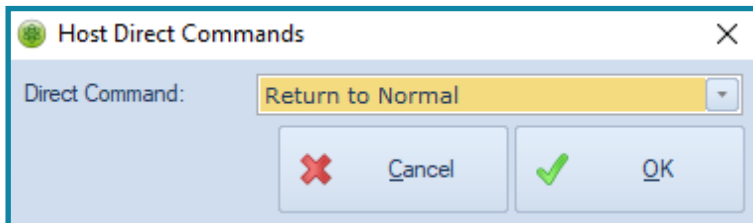
4. **Add** a Macro Description.
5. Under Local Object Type (Controlling Object), **select** the Monitor Point type from the drop-down menu.
6. Under Remote Object (Controlled Object), **select** the HDW: Execute Direct Command.
7. For the Action 1 Event ID, **select** event 018: Monitor Point Active.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



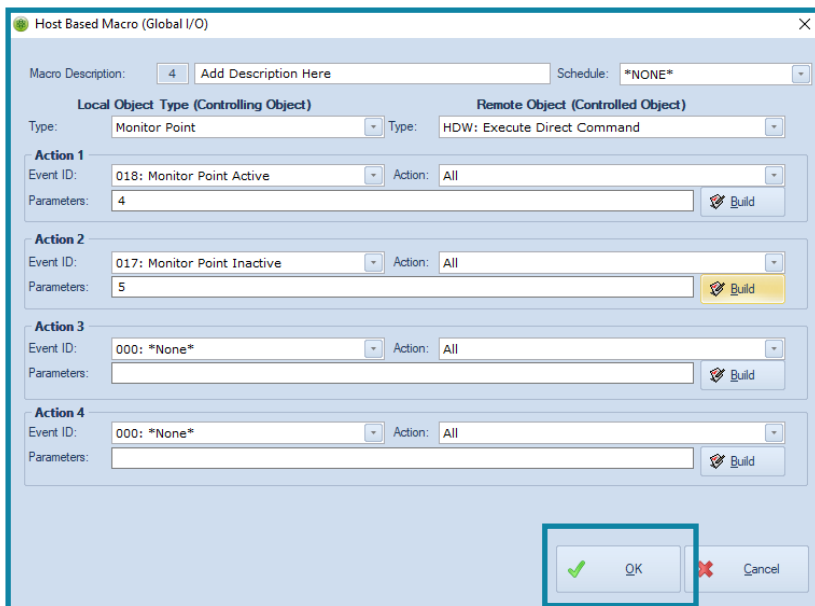
9. **Select** the "Lockdown" Direct Command.
10. **Click** Ok.
11. For the Action 2 Event ID, **select** event 017: Monitor Point Inactive.
12. **Click** on the Build button.



13. **Select** the "Return to Normal" Direct Command.



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

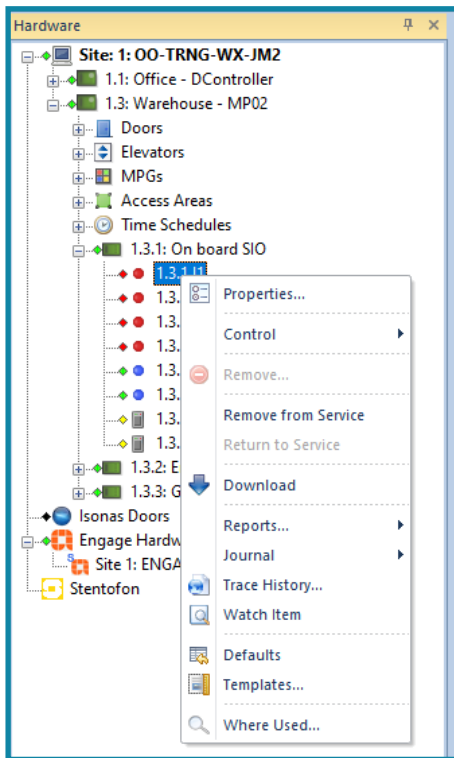


Configure the Monitor Point

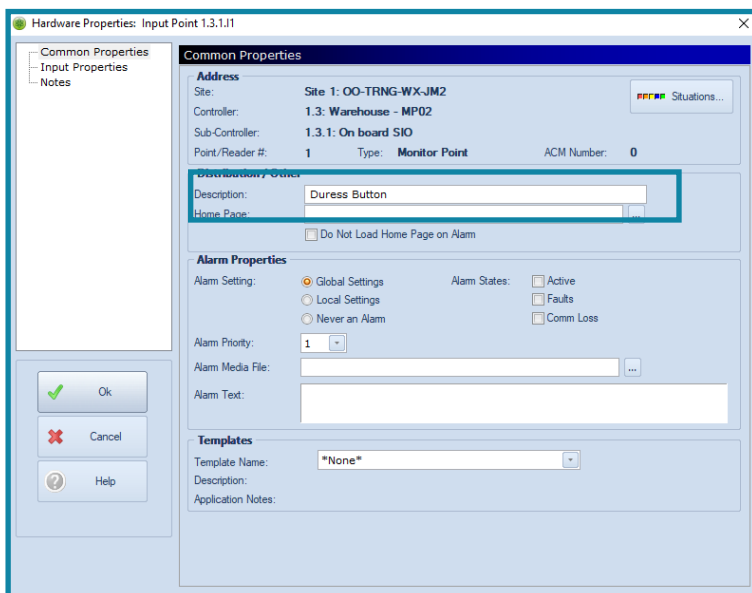
Once all the Direct Command and Host Based Macros are created, the Monitor Points must be configured. A duress button (panic button) should be wired to an Input Point of a panel.

To configure the Input Point:

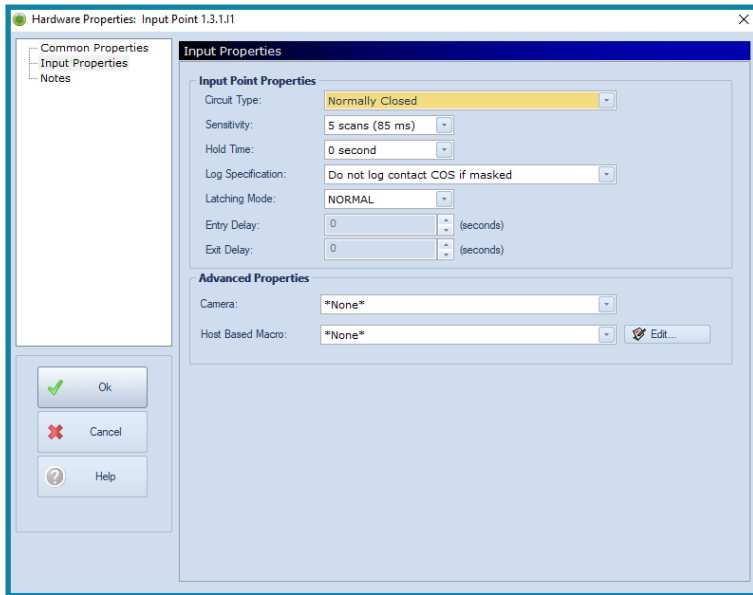
1. **Open** the Hardware browser.
 2. **Expand** the desired SSP's hardware tree.
 3. **Expand** the desired SIO tree.
 4. **Right-click** on an Input Point.
- Ensure that the correct Input Point is selected.



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



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



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:

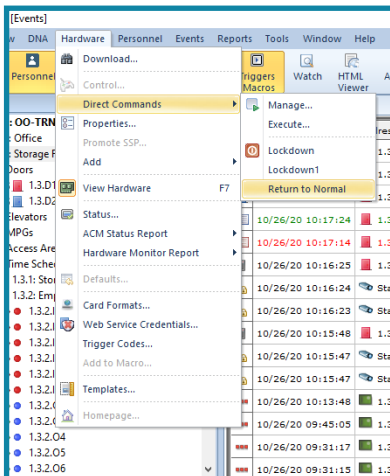
1. **Ensure** that the Input Point on the board matches the input point configured in DNA Fusion.
2. **Press** the switch/button.

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

10/28/20 11:42:03	1.3.T2	Front Door Door Follow Schedule: De-Activate	227	Trigger Became Active			
10/28/20 11:42:03	1.3.T54	Warehouse Day	223	Became Inactive			
10/28/20 11:42:03	Station 0	DNA Driver	423	Time Scheduled Controlled by ...			Execute Direct Command (4) from ...
10/28/20 11:42:02	1.3.1.I1	Duress Button	18	Monitor Point Active			4: Status = 0x01 (was 0x00) <0x01>
10/28/20 11:42:03	Site 1	OO-TRNG-WX-JM2	408	Direct Command Executed by D...			Execute Direct Command (4) from ...
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.

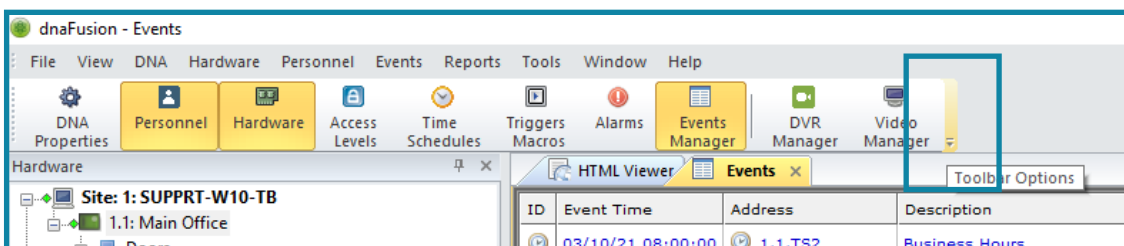
3. To deactivate the lockdown command, **select** the "Return to Normal" command that was created.



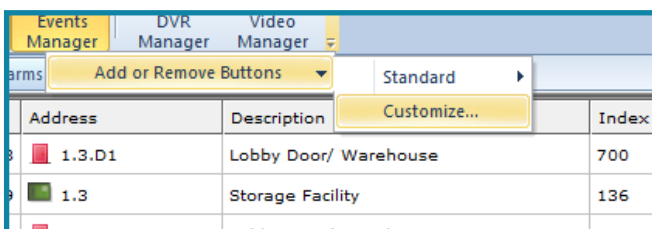
Adding the "Return to Normal" Command to the Toolbar

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

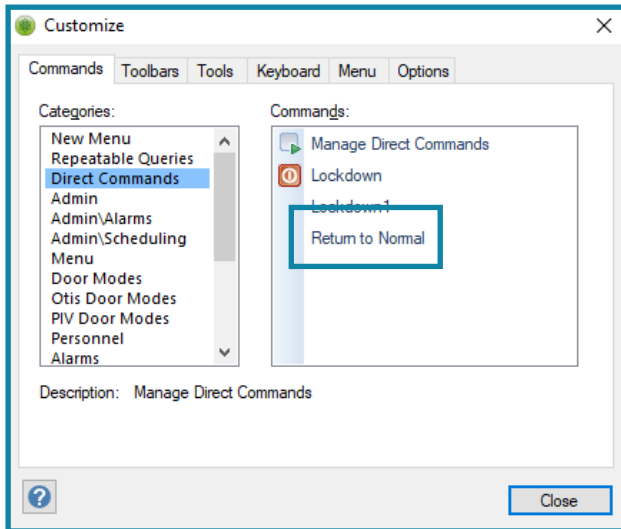
1. **Click** on the Toolbar Options and **select** the drop-down menu.



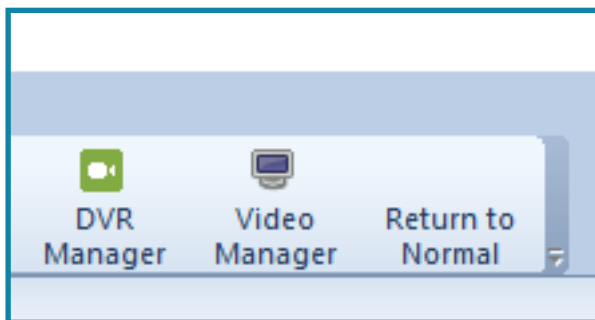
2. **Select** Add or Remove Buttons > Customize



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 Toolbar.



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