Elk

Crestron Home™ Driver

Base Model: M1
Device Type: Security
Version: 1.8.2

Notes & Recommendations

This Elk driver manages communication to the ELK security panel via TCP/IP (requires an ELK-M1XEP to be installed and properly configured). You will be able to control your Elk security system, including arm stay, arm away, and disarm. You will also get arming status and the ability to bypass faulted zones. In addition to all the basic features, there is support for a Faulted Zone list with the ability to bypass individual zones.

This driver is named "**M1 - Native UI"** to differentiate it from the other M1 driver. This new driver uses the native Crestron Security features that are not available in the other driver. This driver requires an Elk M1 Pro license. Please make sure that your Elk security panel is set up and configured properly before using this driver.

We recommend creating a room that will be hidden (in this help file, the room is called out as Rack) to add this Elk driver into the Crestron Home™ user interface. This driver comes with a 2-hour trial license. You can purchase a full license at

https://digitalautomation.us/product/elk-security-crestron-home/

Only an Elk Pro license will work with this driver; the Elk Basic license is no longer available. This driver will reject an Elk basic license.

This driver also works in Simpl Windows.

Please note that this driver controls a single area or partition per instance. If you need to control additional partitions, you may add as many instances as required.

Notes:

- As with any driver, it is **strongly recommended** that a configuration or a golden configuration be saved in Crestron Home™ before adding any driver.

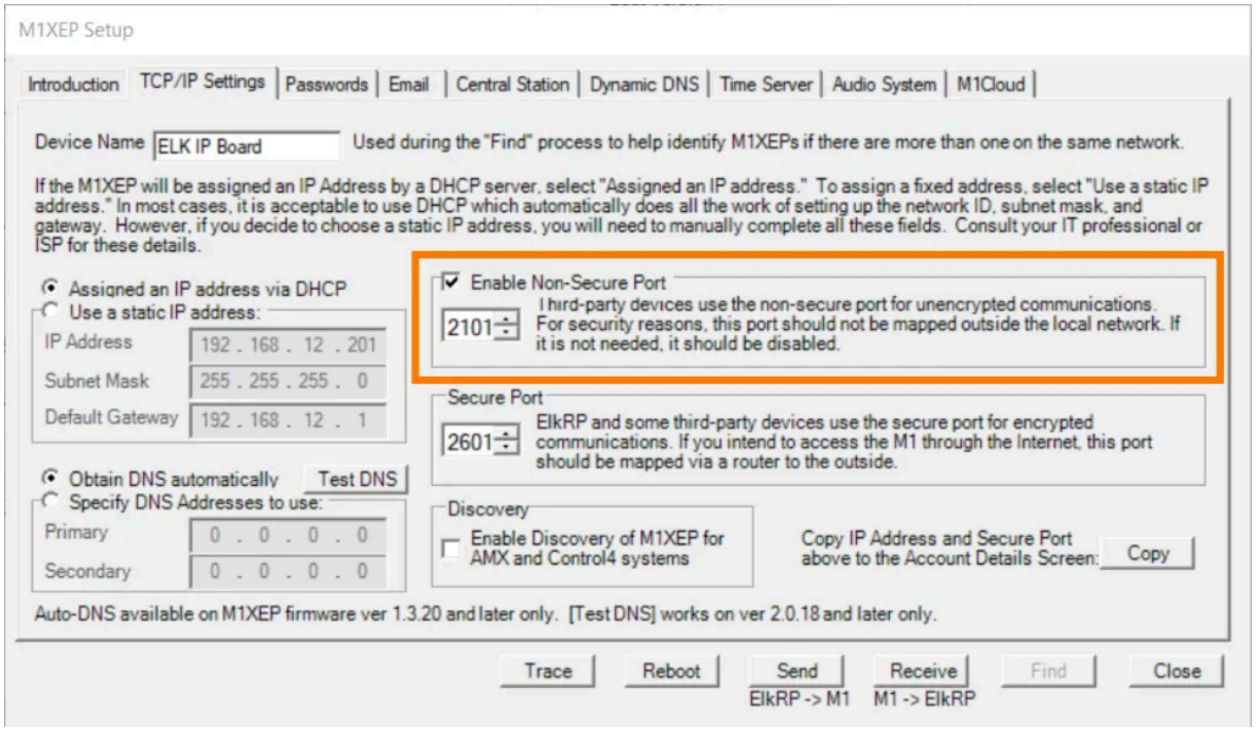
- Before updating the driver using the "Check for Driver Update" button, please ensure the firmware is updated to at least version 4.6.

Installation/Upgrade Instructions

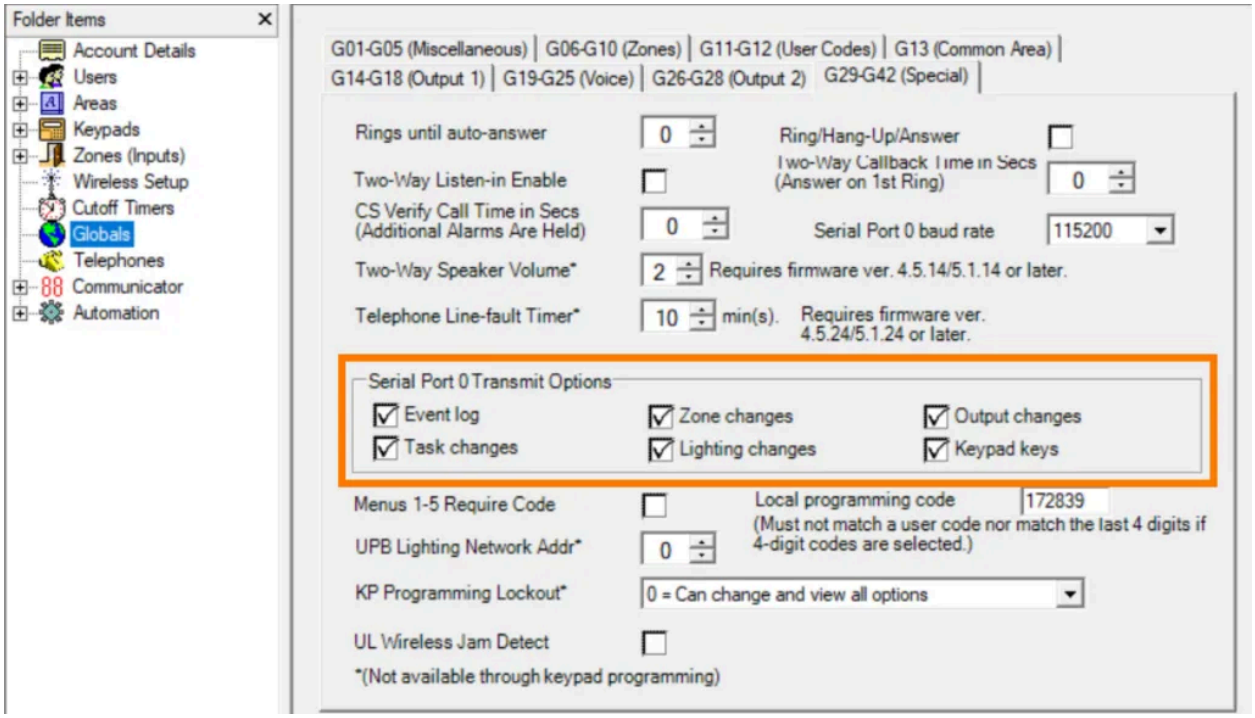
The Elk security system should be fully configured and functional before adding the driver. The IP address and port are needed to establish the communication.

Hardware setup

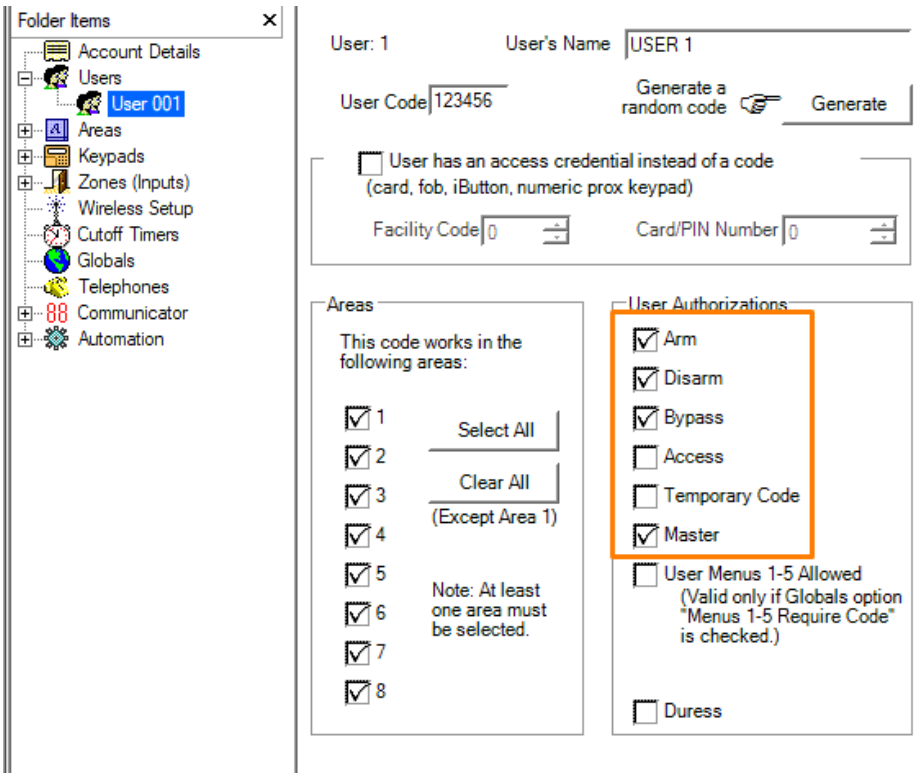
You will need to make sure the Elk and the M1XEP are properly configured. The M1XEP needs port 2101 and is unsecured to be enabled. See example screenshot.



Make sure under Globals > G29-G42 (Special) > Serial Port 0 Transmit Options, that all the checkboxes are marked, as shown in the example screenshot.



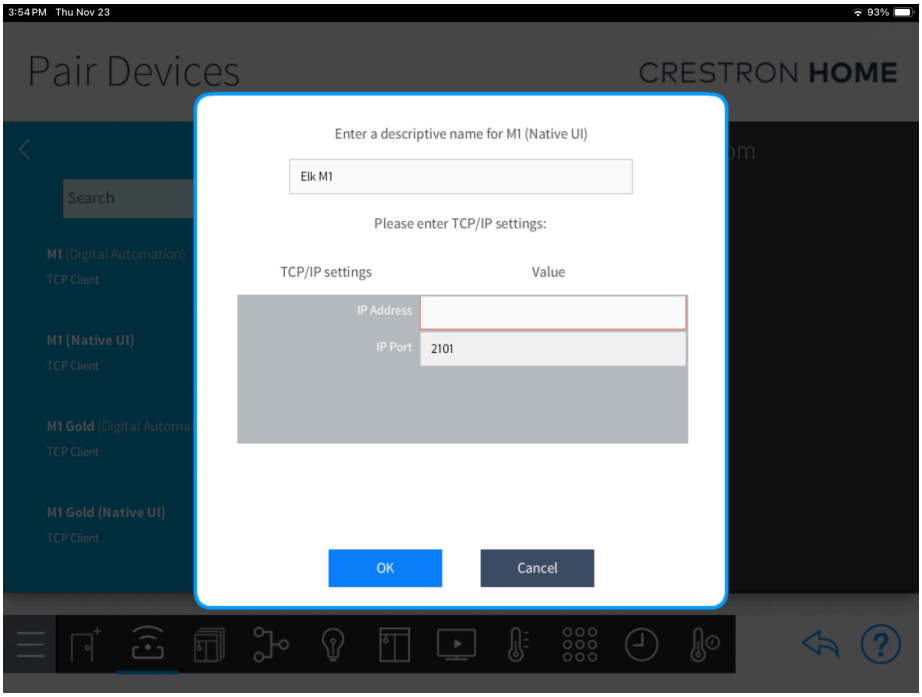
Enable the user authorizations to control the system.

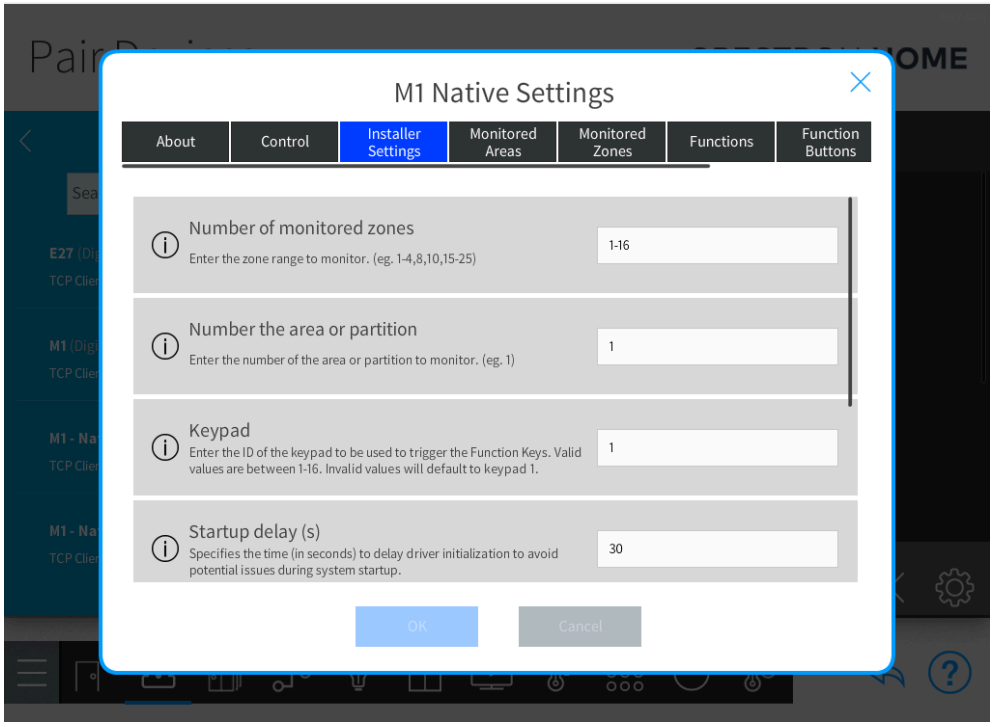


Note: Make sure the Elk configuration software is not connected when you test the driver. If it is, disconnect the configuration software from the panel; otherwise, it will lock out third-party control.

Install the driver

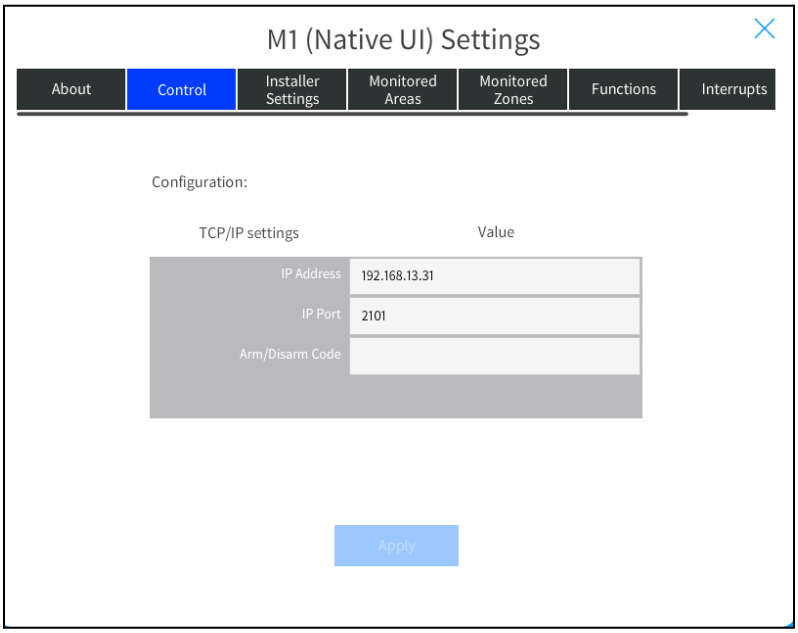
When adding the driver to a room, it will ask for a descriptive name, IP address, and port of the Elk device.





Notes:

- The "**Enable double disarm to clear panel message**" option allows the driver to clear the Elk panel after it enters a faulted state following an alarm activation. When enabled, the driver sends the disarm command twice instead of once.
- When using the driver settings, the **Arm/Disarm** field in the control tab is unused; it should be blank, see the image below.

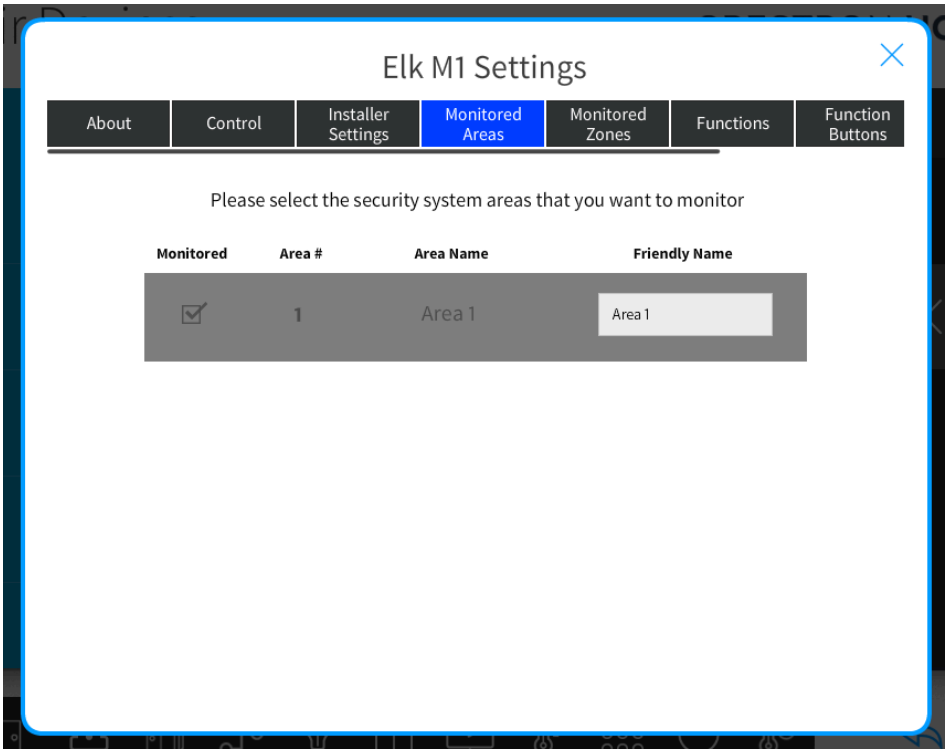


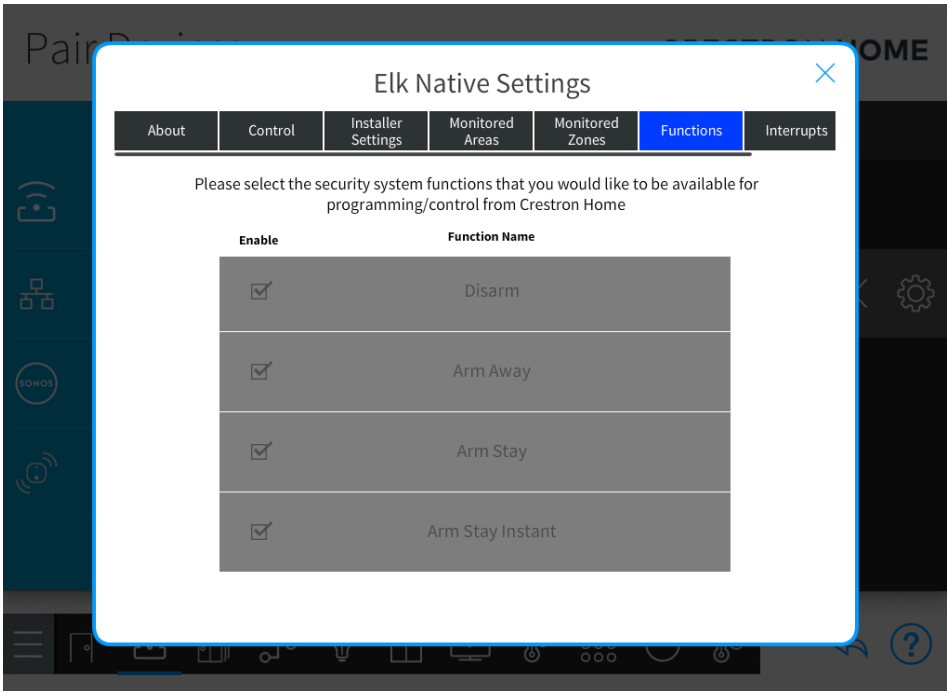
This driver comes with a 2-hour trial license, and the license key can be updated either during the initial deployment or later on from the installer settings tab. The trial period is 2 hours and can be extended another 2 hours by rebooting the processor.

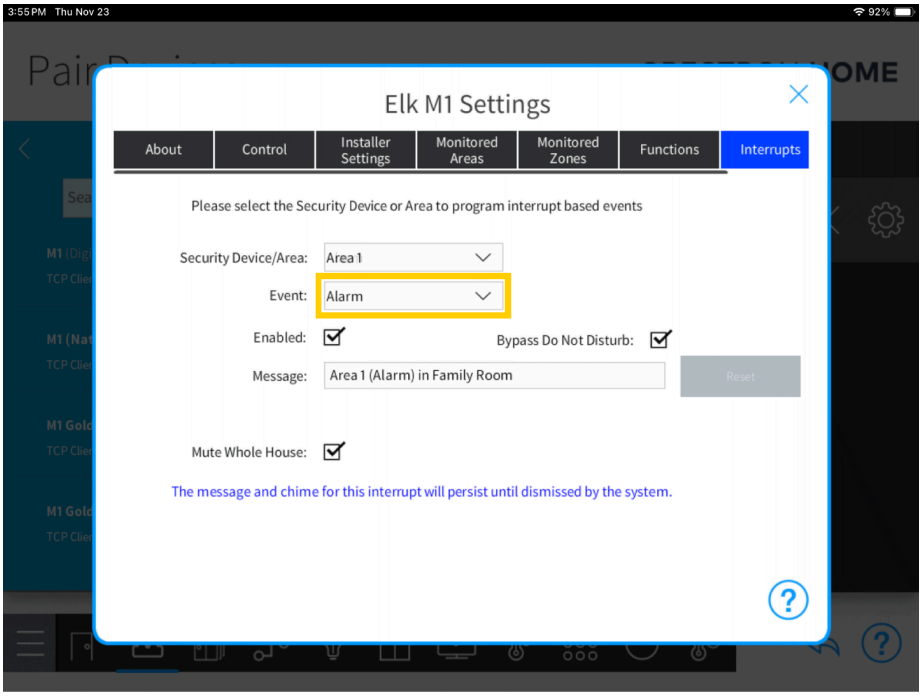
For additional information about this driver, please visit the FAQs section on our website https://digitalautomation.us/product/elk-security-crestron-home/

Security system features

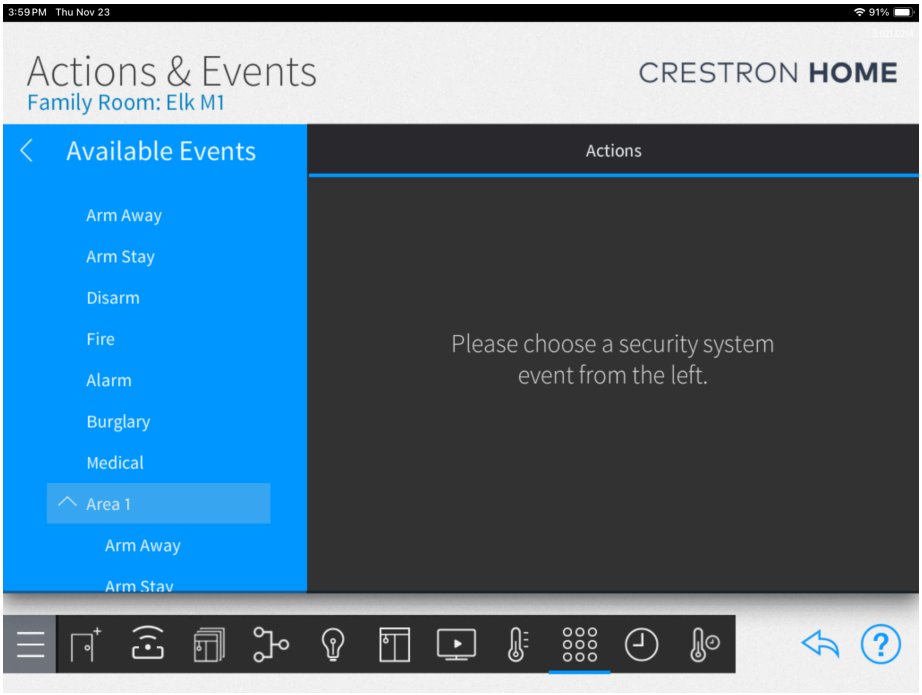
You can set up the features from the driver settings


Elk M1 Settings
About
Control
Installer Settings
Monitored Areas
Monitored Zones
Functions
Function Buttons
Please select the security system areas that you want to monitor
Monitored
Area #
Area Name
Friendly Name
1
Area 1
Area 1


Elk Native Settings
About
Control
Installer Settings
Monitored Areas
Monitored Zones
Functions
Interrupts
Please select the security system functions that you would like to be available for programming/control from Crestron Home
Enable
Function Name
Disarm
Arm Away
Arm Stay
Arm Stay Instant



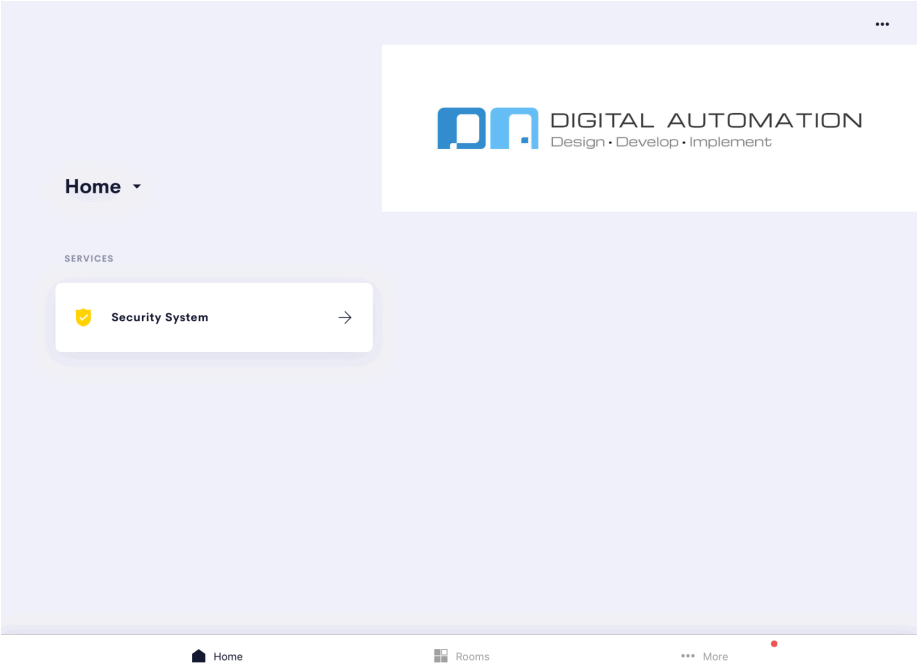
You can use the available security “Actions & Events”



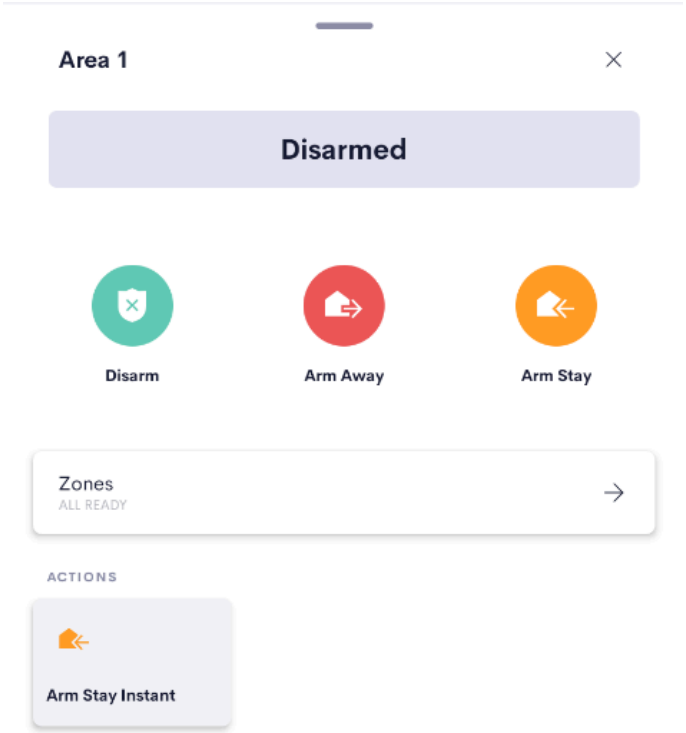
End-User Experience

The Elk security system driver can arm and disarm the system and bypass any zone independently. The current system status is displayed on the UI.

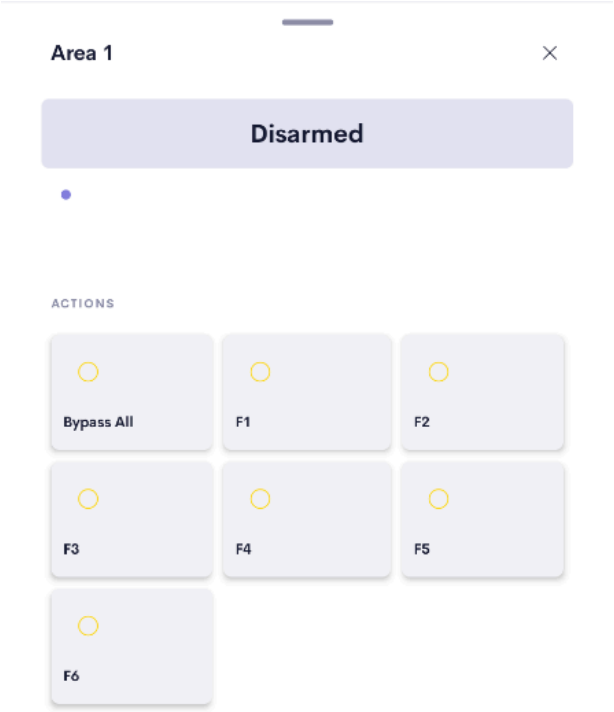
The tile is available on the Home screen; the default name is “Security System”. However, if you have multiple security systems, each tile shows the descriptive name used when it was added.



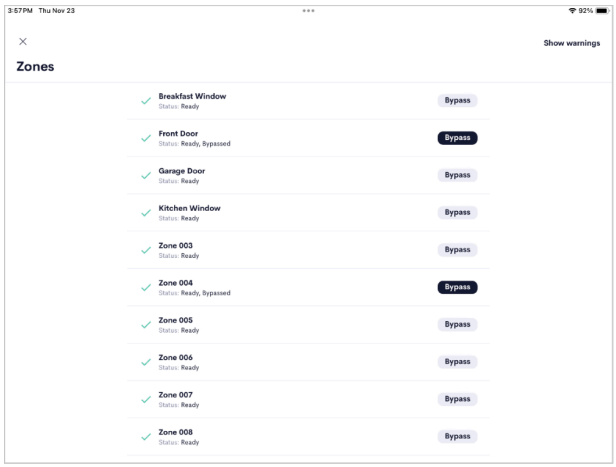
When you open the Security System tile, you will see the partition (area) page

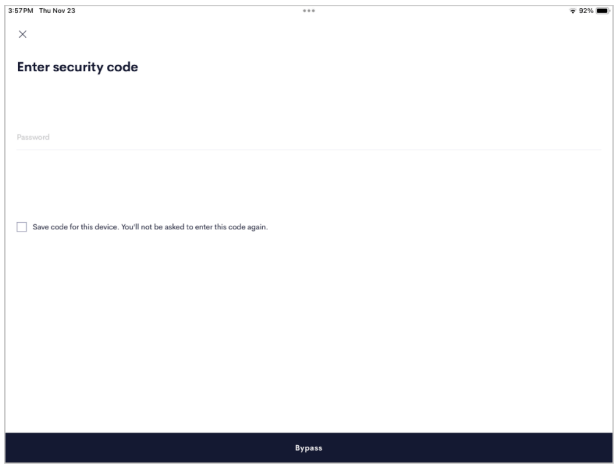


Swipe to view the next page of function buttons. Press and hold a button to activate its function.

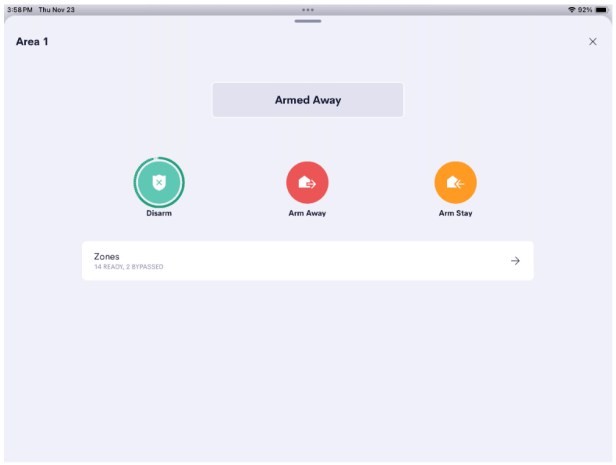


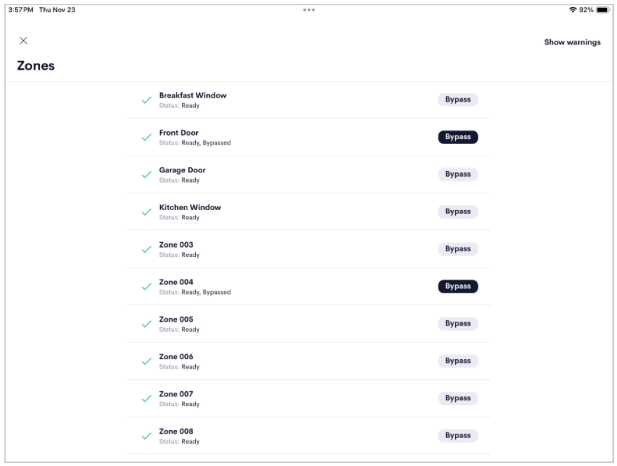
The “Zones” button displays the list of zones with their names and current status. You can bypass or un-bypass any zone using the Bypass button; it will ask for the passcode.



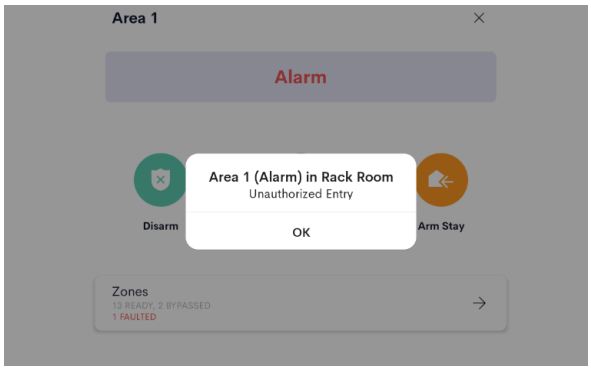


To arm or disarm the system, you must **press and hold** the button until the circle is filled. It will ask for the passcode.





When the system is alarmed, a pop-up message will appear on the screen.



Known Issues

- Sometimes the bypass button is not visible on Android.
- Sometimes, when the system is armed or disarmed from the CH app, a loading wheel is present permanently in iOS. You need to close and open the app again.
- It is not possible to unsave the passcode in the CH app due to a limitation of the CH system. To change the passcode, it is necessary to uninstall and reinstall the driver.
- To enable event setup, reboot the processor after adding the driver. This is due to a limitation of CH's security device type.
- When using firmware version 4.5 or earlier, updating the driver through the "Check for Driver Update" button may cause the processor to crash. This issue is related to a known Crestron bug.
- If the Crestron processor experiences a significant slowdown or reboots, motion sensors may need to be removed from the driver to maintain system stability. This is a known issue within the Crestron Home framework that Crestron is currently aware of; however, there is no official resolution available at this time

---

Supported Features

- Arm Stay
- Arm Away
- Arm Stay Instant
- Disarm
- Zone list
- Zone bypass
- Bypass all
- One partition control
- Function buttons
- Panel's alarm message clearing
- Sends the disarm command twice to clear the Elk panel

Minimum System Requirements and Dependencies

- Crestron Home 4.005.0214.
- CDD SDK 24.005.0290

Test Environment

- Crestron Home 4.007.0243.
- CP4R Firmware v2.8000.00056 (Apr 4, 2024).
- CDD SDK 24.000.012
- Elk M1G firmware v5.3.30
- Elk panel boot version 3.3.6
- Elk panel hardware version 0.13

Supported Models

- M1
- M1 Gold

Contact Information

If you have any questions, please contact us at drivers@digitalautomation.us

---

Version History

1.0.0

09/29/2023

- Initial release

1.0.1

01/18/2024

- Fixed the issue with the zone status feedback

1.0.2

02/02/2024

- Fixed issue with passcode entry.

1.1.1

04/24/2024

- Fixed issue with zone status feedback.
- Fixed issue with alarming status feedback.
- Fixed issue with zone disappearance.

1.2.0

05/24/2024

- Multipartition feature added.

1.2.1

07/26/2024

- Zone feedback issue fixed.

1.3.0

07/26/2024

- Fixed issue when zone statuses are updated.
- Delay messages were added when the system is in arming delay or entry delay mode.

1.4.0

11/28/2024

- Added a new feature. Arm Stay Instant system mode added.

1.5.0

12/19/2024

- Added a new feature. Exit delay and Entry delay messages added.

1.6.0

01/16/2025

- Added a new feature. Function buttons and keypad emulation were added.

1.6.1

02/21/2025

- Resolved an issue that caused the “Arm Stay Instant” mode to trigger after the delay message finished.

1.6.2

03/03/2025

- Fixed an issue with the keypad emulation when using the driver in Simpl Windows.

1.6.3

03/28/2025

- Fixed a driver loading issue that prevented it from starting in Simpl Windows.

1.7.0

05/15/2025

- Security zone module compatibility added for Simpl Windows.
- Fixed event issues in CH.
- Supported model names have been updated due to a requirement of Crestron’s system.

1.8.0

11/25/2025

- Introduced an optional feature that clears the panel’s alarm message upon disarming by automatically sending the disarm command twice.

1.8.1

12/03/2025

- Fixed the issue when the driver is used for areas beyond Area 1.
- Fixed zone issues.

1.8.2

04/06/2026

- Adjusted the delay between sending disarm commands.
- Added diagnostic commands for troubleshooting.

Licensing and Copyright Information

Certain Crestron products contain open-source software. For specific information, please visit www.crestron.com/opensource