Unifi Protect v1.0
Crestron Home™ Driver Application Guide

Description

This Crestron Home driver brings status and control of Ubiquiti UniFi Protect devices into Crestron Home. It connects to a UniFi Protect controller (UDM Pro, Cloud Key, or any UniFi OS console running UniFi Protect) over the local network using the official UniFi Protect integration API, and discovers devices automatically at runtime. Each discovered device becomes its own configurable child driver.

Viewports: status and live view selection on UP-Viewport hardware.
Camera Control: Control PTZ preset and patrol recall, and connection status. Does not display live camera streams.
Relays: output control and status
Sirens: status and control
Fobs: button events

Review each device section for supported models. If your model is not listed, please contact us.

A fully featured trial is included for 7 days, with no purchase required. Setup, licensing, and per-device details follow.

Important Notice: Not a Life Safety Device. This Driver is designed for convenience only. It is not designed, intended, or certified for use as a life safety device. **Do not rely on this Driver, or any data it provides, for life safety purposes**. Always use dedicated, listed, life safety equipment.

Supported Processors

This driver is supported in Crestron Home V1 and V2 processors running Crestron Home OS version 4.011.0322 or later.

Getting Started

This Crestron Home Driver connects to a Ubiquiti UniFi Protect instance and exposes its viewers, cameras, relays, sirens, and fobs as individual Crestron Home Drivers. A local network connection to the UniFi Protect controller is required. Internet access is also required to receive the license trial period and during license activation as this Driver communicates with the ControlWorks license server. All communication with the UniFi Protect instance stays on the local network.

Managed Platform Drivers

Once the Platform Driver has been added and connected, the following Managed Platform Drivers are discovered automatically from the controller and can be added to your rooms:

- **Camera Control:** Each UniFi Protect camera becomes its own Driver, reporting connection status and providing PTZ preset and patrol tour recall on PTZ-capable models. See Camera Control Driver (Page 18).
- **Relay:** Each Relay (USL-Relay) becomes its own Driver, providing output control and input state reporting. See Relay Driver (Page 22).
- **Siren:** Each Siren (UP-Siren-PoE) becomes its own Driver, providing siren control and state feedback. See Siren Driver (Page 25).
- **Fob:** Each UniFi Fob (USL-FOB) becomes its own Driver, providing button-press events for each of its six buttons (left, disarm, arm, night, panic, right). These events can trigger Sequences, Quick Actions, or other programming. See Fob Driver (Page 20).
- **Viewport**: Each UniFi Viewport (UP-Viewport) becomes its own Driver, providing Live View selection for the display it drives. See Viewport Driver (Page 15). At this time Viewport outputs on NVR's are not compatible.
- **License Display:** Displays license status and provides controls to update license information and retry activation. Added automatically by the Platform Driver and required for license activation. See License Display Driver (Page 14).
- **Sensors**: We are working to provide detailed sensor drivers in the future once the API is stable enough to provide a long-term stable working driver.

Licensing

This driver requires a Module Instance License available at store.controlworks.com. Each combination of Crestron Home processor and Unifi Protect requires a separate license. A complimentary 7-day Trial Period is included if no other Unifi Protect Driver licenses are present. See How To Purchase a License (Page 10).

Getting Started

1. Add the driver. See Adding the Driver to a Crestron Home System (Page 4).
2. Add the desired Managed Platform Drivers to your rooms.
3. Test drivers.
4. Purchase and activate a license. See How To Purchase a License (Page 10).
5. Add programming. See each platform driver.

Table of Contents

Adding the Platform Driver to Crestron Home

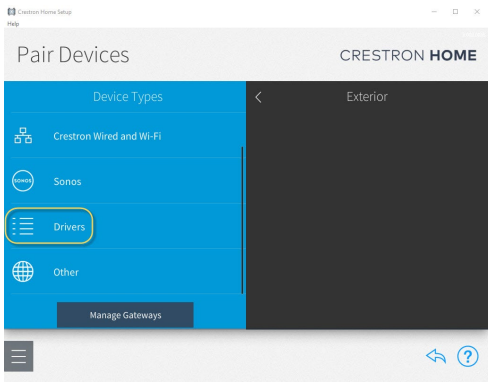
Note: These instructions and screenshots have been prepared with CP4-R version v4.011.0322 for Crestron Home. Future updates to Crestron Home may result in changes to the appearance or the steps required to implement the Driver.

1. This Driver requires an Instance License for permanent activation. Upon loading the Driver, if no license has been purchased, the Driver will fully enable in Trial Mode for 7 days.

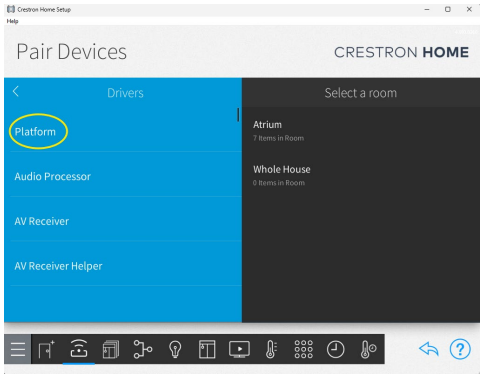
2. Ensure the Crestron Home Processor has been configured to have Internet access for the driver to successfully reach ControlWorks Activation Servers. More information on configuring Crestron Home Ethernet Settings can be found at https://docs.crestron.com/en-us/8525/Content/CP4R/Installer-Settings/Sys-Config/Ethernet-Settings.htm

3. Create an API Key in Unifi Protect. See Obtaining the Unifi Protect API Key (Page 7).

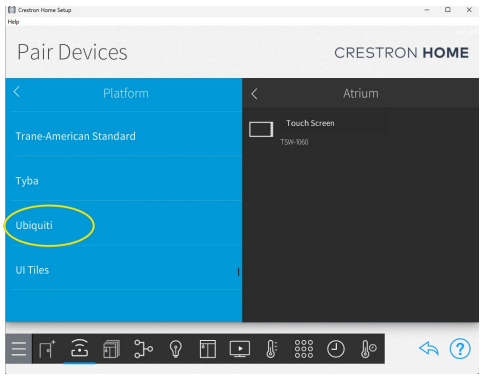
4. Using the Crestron Home Setup App, navigate to the driver by pressing Menu > Settings > Configure System > Pair Devices > Drivers. Crestron Home will automatically update the list with any drivers that have been Side Loaded to the Crestron Home Processor.



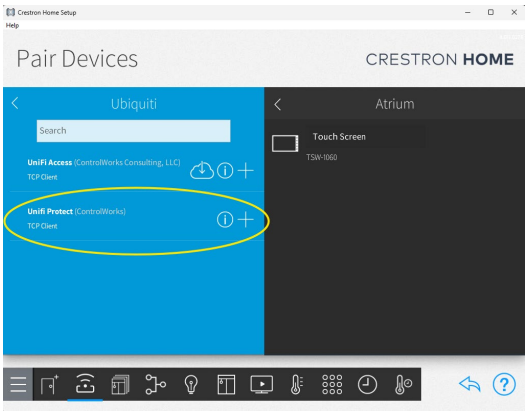
5. After Crestron Home refreshes the Driver list, scroll the list of Drivers to locate and select the Platform category.



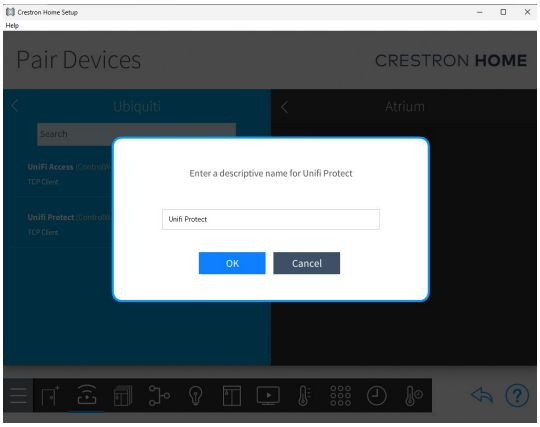
6. Scroll to the manufacturer Ubiquiti, and select it



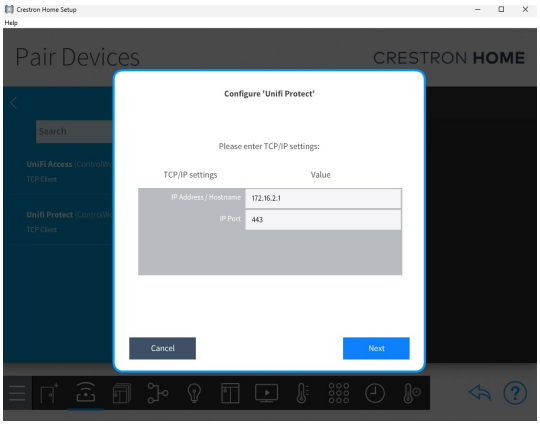
7. Choose a Room from the "Select a Room" list that Unifi Protect is to be added to, then select the + button next to the Unifi Protect Platform driver to add the driver to the room.



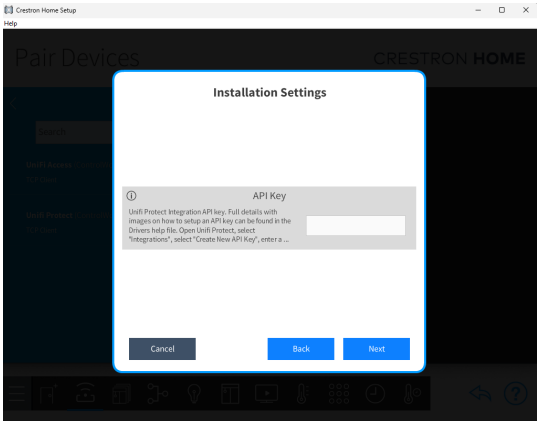
8. Enter a name of your choosing for the Driver.



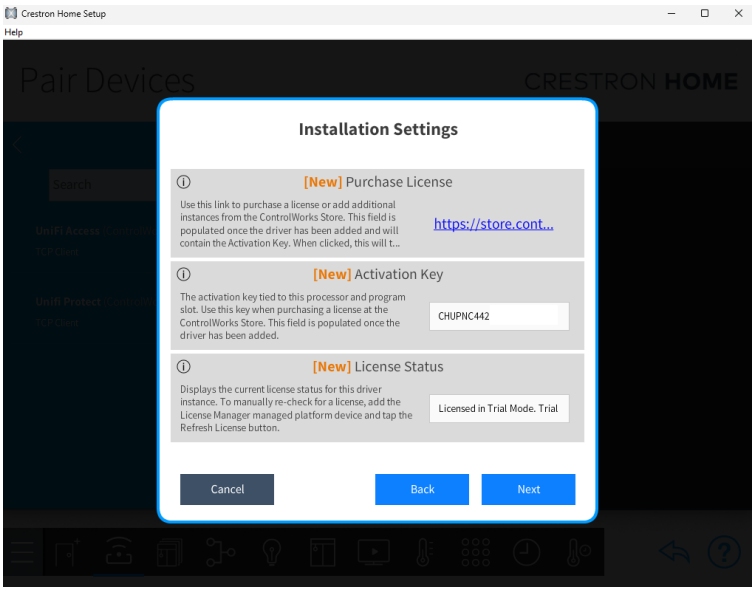
9. Next you will be presented with TCP/IP settings. Enter the IP Address of the Unifi Console running the Unifi Protect instance that you wish to connect to.



10. Enter the API Key. The steps to obtain the API Key can be found in Obtaining the Unifi Protect API Key (Page 7).



11. Next you are presented with License information. Full details of the license can be found in Module Instance License. These fields are as follows:
    - **Purchase License:** Use this link to purchase a license or add additional instances from the ControlWorks Store.
    - **Activation Key:** The activation key tied to this processor and program slot. Use this key when purchasing a license at the ControlWorks Store. This field will be populated once the driver has been added.
    - **License Status:** Displays the current license status for this driver instance. To have the driver check the activation server for a purchased license, please add the License Helper Driver, and press the "Check for License Now" button to refresh the license. For more details, see License Helper Driver (Page 14).



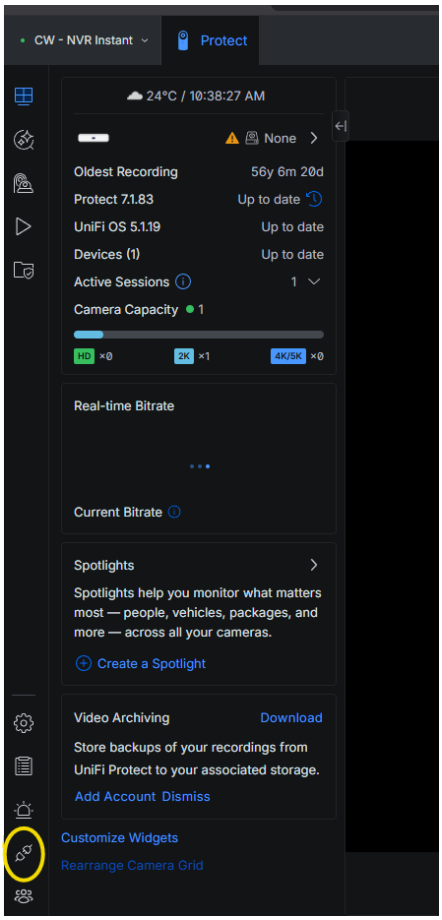
12. Press Next. The Platform Driver will be added, and it will discover the UniFi Protect devices, which can then be added from Managed Platform Devices. To add devices, see Adding Managed Platform Devices (Page 12).

Obtaining the Unifi Protect API Key

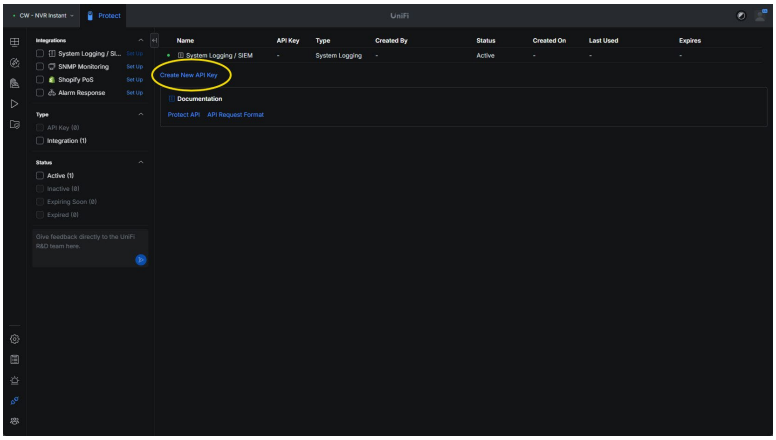
This Driver communicates to the Unifi Protect application over the local network. Accessing this service requires an API Key that can be obtained following the steps below:

1. On a PC, open a web browser and navigate to the UniFi Protect instance on the UniFi Console you want to connect to either by directly connecting to the console or via https://unifi.ui.com/.

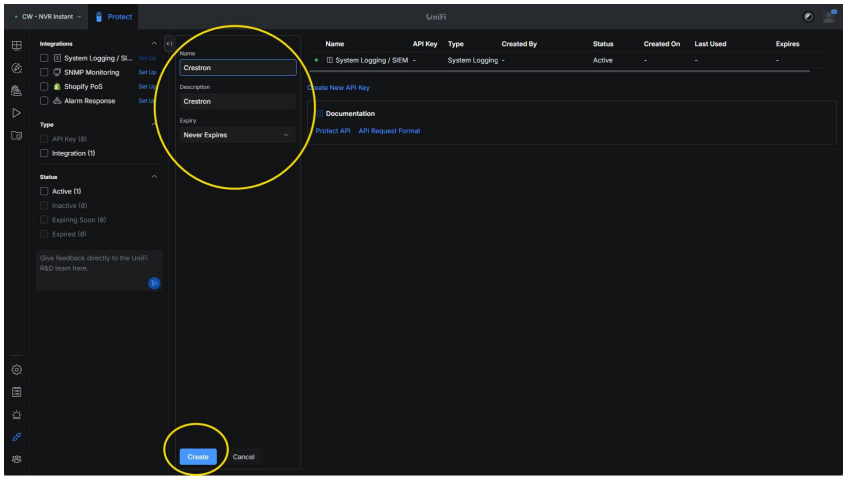
2. Navigate to "Integrations".



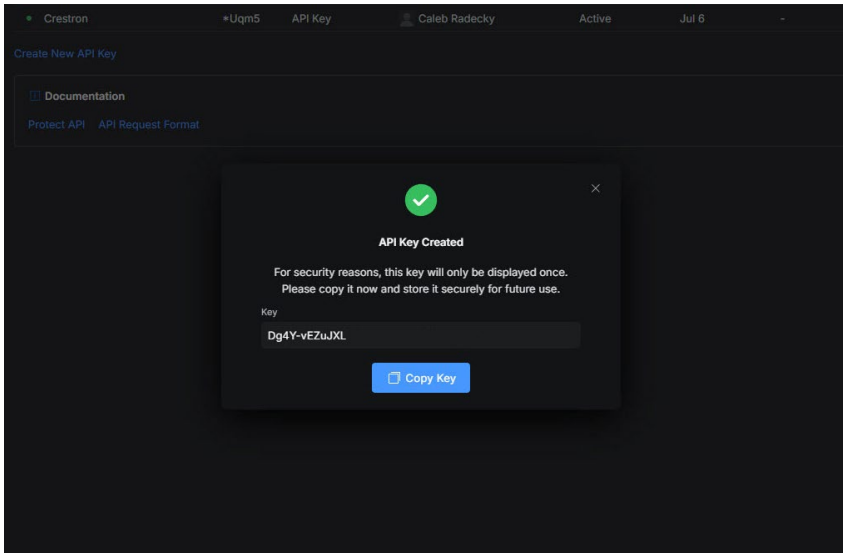
3. Select "Create new API Key"



4. Enter a Name and Description. Set the Expiry to "Never Expires, then press Create.



5. The API Key will be displayed. Copy the API Key and place it in a safe location as you will not be able to view the key again.



Module Instance License

This Platform Driver requires a Module Instance License, which can be obtained by following the steps in the following section How To Purchase a License (Page 10).

Each instance of a Platform Driver in a system requires an associated license.

Licenses are purchased using an Activation Key unique to each Crestron Home Processor.

You may purchase additional Licenses at any time using the same Activation Key. If you have purchased one or more licenses for the processor previously, you may return and add additional licenses at any time following the steps below.

Trial Period

To aid testing, the Module includes a complimentary 7-day Trial Period, during which time the Driver is fully functional. This Trial Period functionality requires that the system has active Internet connection and is able to reach ControlWorks' activation servers.

The Trial period is only available when no licenses have been purchased for this Driver. If one or more licenses have been purchased, any additional Vestaboard Drivers that are not licensed will not function until a license is purchased.

The trial period begins when the Driver is initially loaded. Trial Period extensions are not available at this time.

License Changes and Transfers

If a processor fails and is replaced, the license will need to be updated. We offer one complimentary reassignment of the license. A processing fee is required for subsequent reassignment of the licenses.

All licenses associated with an Activation Key must be transferred together. Unused licenses, or a quantity of used or unused licenses cannot be transferred.

To Transfer a License

Ensure the Driver has been added to the system, in trial mode and is operational.
Email support@controlworks.com

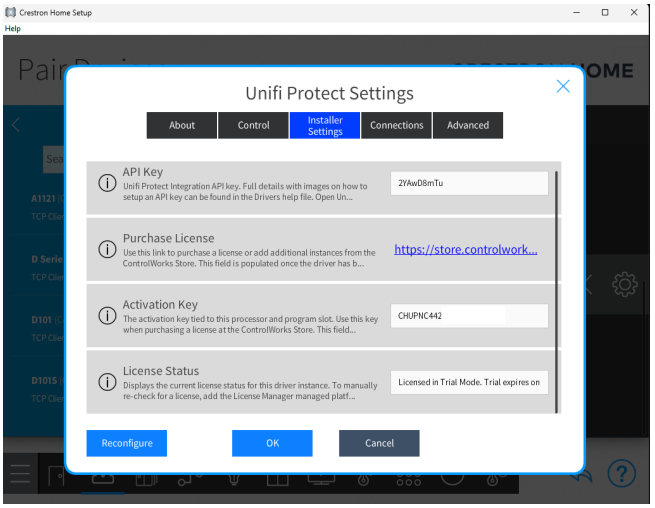
- The existing License Unique Identifier – Found on your purchased products page
- The new Activation Key – Found in the driver settings.

You can find the existing License Unique Identifier on your receipt (listed as "Activated License UID") or by logging into your account at https://store.controlworks.com/account/login.aspx. Navigate to the Your Purchased Services section to locate the License Unique Identifier.

How to Purchase a License

Ensure the previous section Adding the Driver to a Crestron Home System (Page 4) has been completed.

Please ensure the Driver operates properly and the desired functionality is met during the Trial Mode before purchasing a license. Trial Mode is fully functional and activating a license does not add additional features. If som



Locate the License URL.

- In Crestron Home setup tool, open the Platform Driver installation settings.
- In the Crestron Home setup tool:
- Navigate to Pair Devices.
    - Select the room where you added the platform.
    - Locate the Platform Driver (this will have the same name configured during Adding the Driver to a Crestron Home System (Page 4)).
    - Select "Installer Settings".
    - Locate the "Purchase License" field and click the link. This link contains a URL to the ControlWorks store including the Activation Key. When clicked, a browser will open the ControlWorks license page and automatically populate the necessary information in the Activation Key field.

Complete the license purchase.

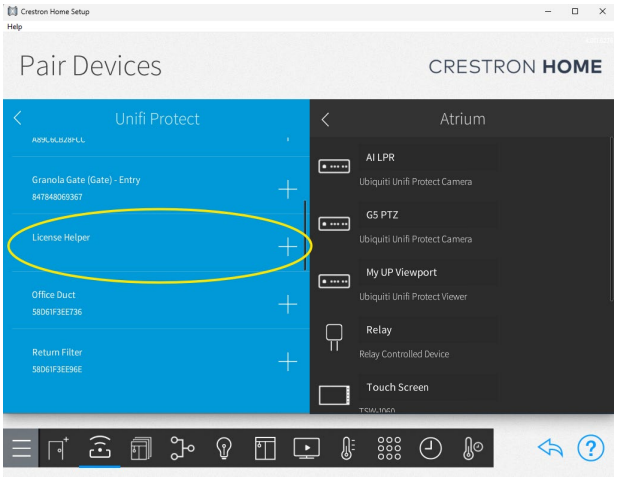
- If you need to purchase additional licenses for the same Processor at a later time, you may simply return to the License Page and, using the same Activation Key, purchase additional licenses.

Apply the License.

There are two ways to apply your purchased license

1. If your driver is in trial mode or the trial has expired, simply restart Crestron Home. On restart, the Driver checks the ControlWorks activation server for a license (internet access required).

2. If your processor already has a license associated with it, or the Driver is operating in Trial Mode:
    - In the Crestron Home Setup tool, navigate to Pair Devices.
    - Select Managed Platforms.
    - Select the Driver Folder with the name you used when setting up the driver from Adding the Driver to a Crestron Home System (Page 4).
    - Locate the License Helper Driver and press the + button to add the Helper Driver.



- On an end user touch panel (such as a TS-1070 or Crestron Home App), select the License Helper tile (Page 14) on the Home or Room Page, and press "Update License Information".
  - The touchpanel field will update with the new license information.

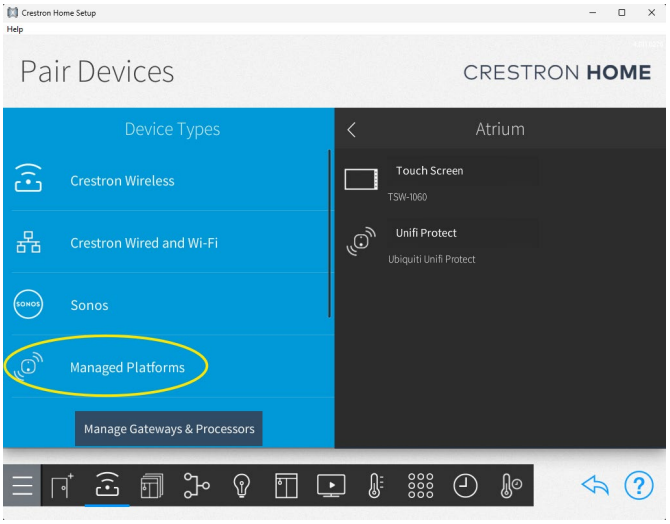
Managed Platform Drivers

The Unifi Protect Platform Driver discovers your UniFi Protect devices and exposes each one as its own Managed Platform Driver, which can be placed, named, and programmed individually in Crestron Home. The device types include cameras, sensors, relays, sirens, fobs, and viewports, along with a License Display Driver that is added automatically. The sections below describe each driver type and its configuration in detail.

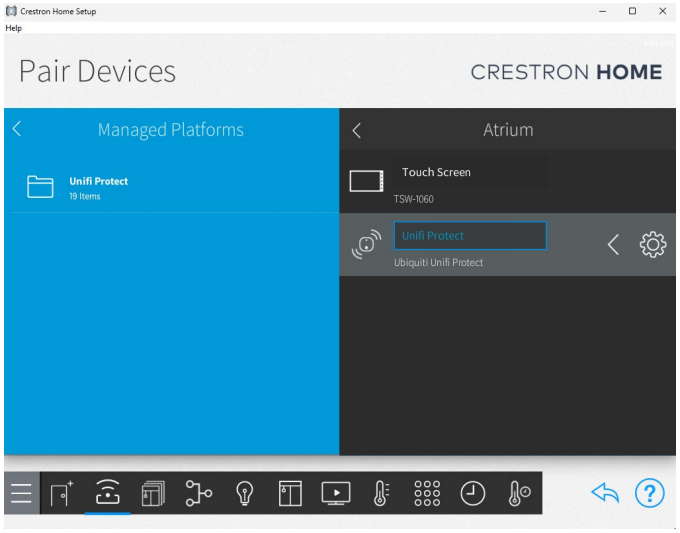
Adding Managed Platform Devices

The following steps describe adding devices discovered in Unifi Protect once the steps in Adding the Platform Driver to Crestron Home have been completed successfully.

1. Using the Crestron Home Setup App, navigate to the Managed Platform Devices by pressing Menu > Settings > Configure System > Pair Devices > Managed Platforms

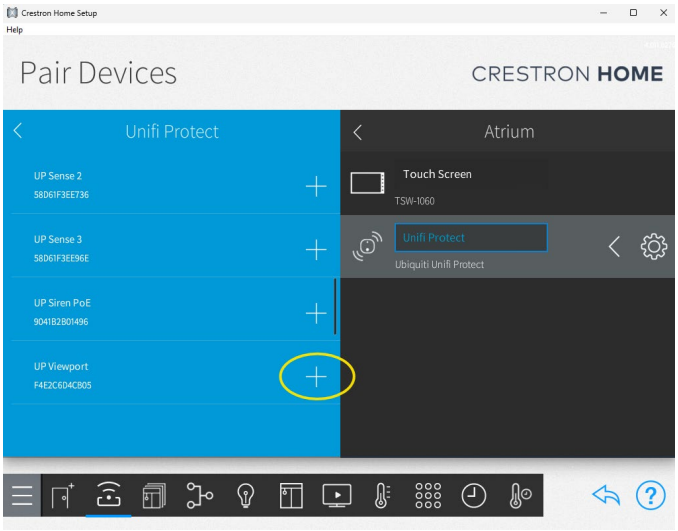


2. Select the Platform Name you entered when adding the Platform Driver in Adding the Platform Driver to Crestron Home.



3. This list is the set of compatible devices that the Platform Driver has discovered. Each item is identified by its name in UniFi Protect and its MAC address. Press the + button next to a device to add it to a room.

   Each Platform Driver may present configuration steps when it is added, which are described later in this document in the section for each driver type.



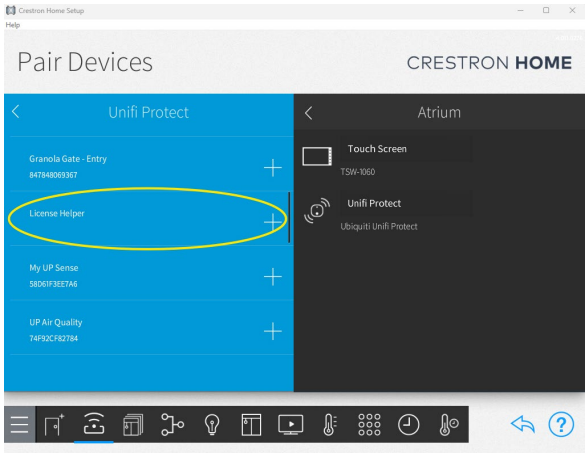
License Helper Driver

The License Helper is a Managed Platform Driver that displays the current license status for the UniFi Protect Driver and provides a control to re-check and apply license information. Adding the License Helper to a room is only required if you wish to view license status or manually trigger a license check from a touch panel.

Adding the License Helper

1. In the Crestron Home Setup tool, navigate to Pair Devices.
2. Select Managed Platforms.
3. Select the driver folder with the name you used when setting up the Platform Driver.
4. Locate the License Helper and press the + button to add it to a room.

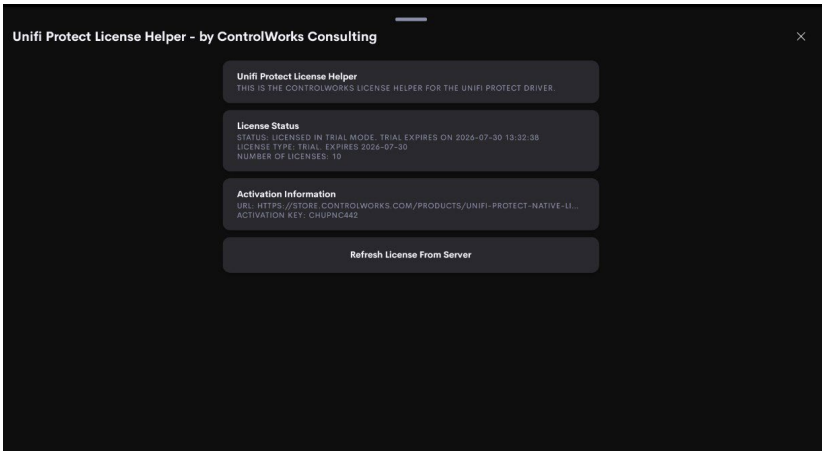
License Helper User Interface Controls



- **License Status:** Displays the current license status, the license type and expiration date (for trial licenses), and the number of licenses associated with this processor.
- **Activation Information:** Displays the store license URL to purchase a license for this this driver.
- **Refresh License From Server:** Press this button after purchasing a license to retrieve and apply the new license from the ControlWorks activation server. Internet access is required.

Notes:

- Retrieving a license from the ControlWorks Activation server requires internet access.
- If the processor does not have internet access at startup, the driver will automatically retry when the network becomes available.
- For details on purchasing a license, see How To Purchase a License.

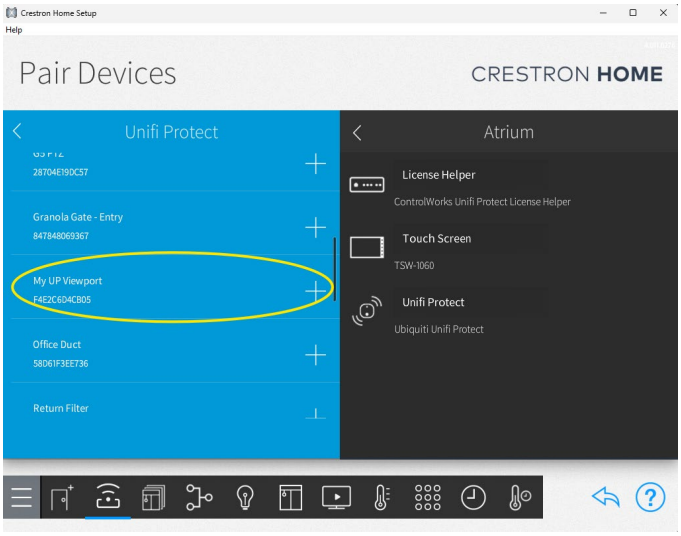


Viewport Driver

The Viewport is a Managed Platform Driver that controls which Shared Live View a UniFi Protect Viewport shows on its connected display. It is compatible with the UP-Viewport only. Shared Live Views are the multi-camera layouts created in UniFi Protect. The driver lists the Shared Live Views available on the controller and switches the Viewport to whichever one you select, from a tile or through programming using a Quick Action or a Sequence.

Adding the Viewport Driver

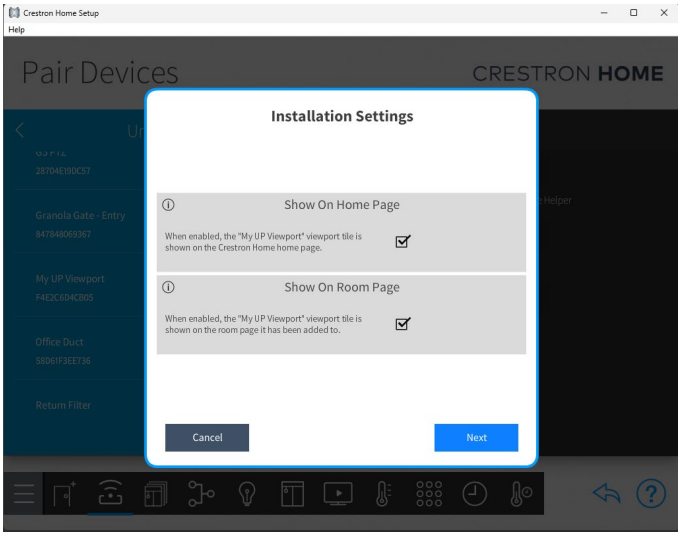
1. In the Crestron Home Setup tool, navigate to Pair Devices.
2. Select Managed Platforms.
3. Select the driver folder with the name you used when setting up the Platform Driver.
4. Locate the Viewport, shown by its UniFi Protect name (for example, "My UP Viewport") and its MAC address, and press the + button to add it to a room.



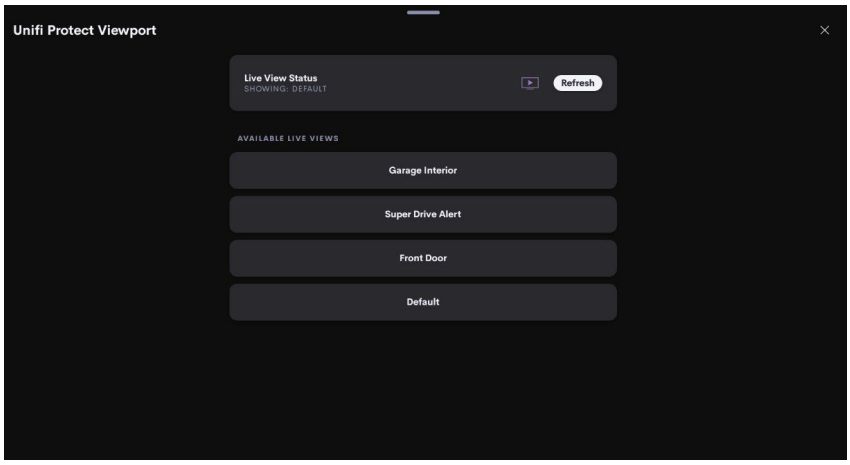
Configuration Items

When the Viewport is added, an Installation Settings dialog is shown:

- **Show On Home Page:** When enabled, the Viewport tile is shown on the home page.
- **Show On Room Page:** When enabled, the Viewport tile is shown on the room page it has been added to.
- If no option is selected, the tile will not be displayed, but the driver remains functional and is able to triggered via configuration.
- Both options can be changed later from the device's settings.



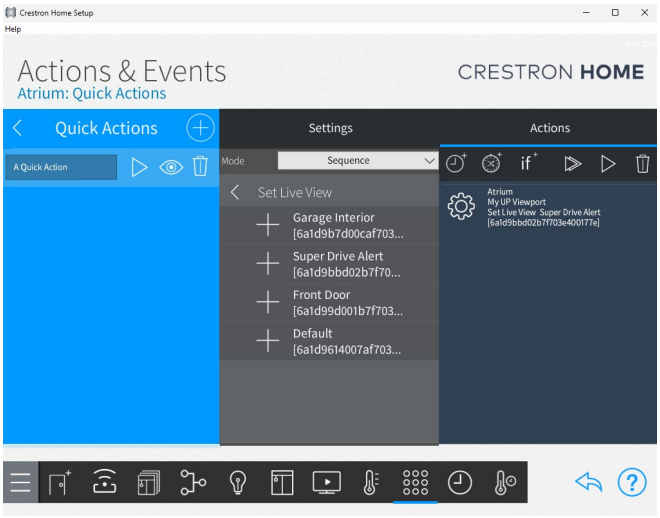
User Interface Controls



- **Live View Status:** Displays the Live View currently shown on the Viewport.
- **Refresh button:** Re-queries the controller for the latest Live Views and current status. The driver also queries the controller for the latest Live Views periodically.
- **Available Live Views:** A list of buttons, one for each Live View available on the controller. Press a button to switch the Viewport to that Live View. The status updates to reflect the newly selected view.

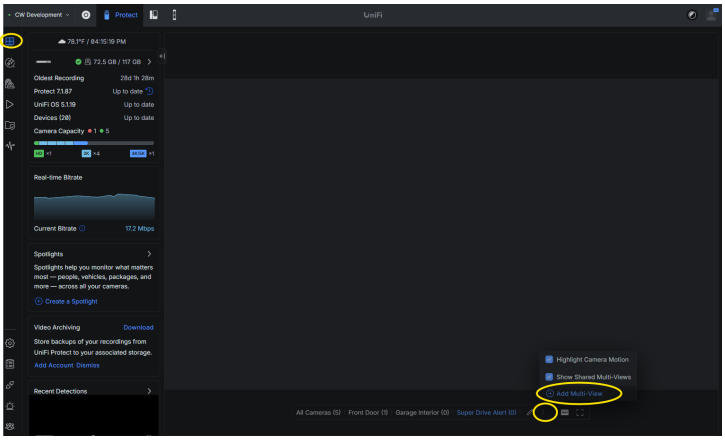
Sequences and Quick Actions

The Viewport driver can be triggered from a Sequence or Quick Action using the Set Live View action. Select the desired Live View from the list, and the Viewport will switch to it as part of an automated event.

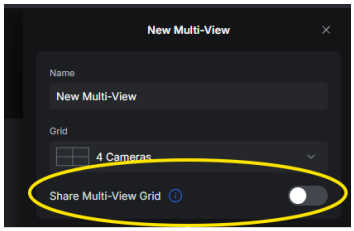


Adding Shared Views

The Driver can only control and select Live Views that are shared. To add a Shared Live View:



1. Open Unifi Protect and select the dashboard view.
2. At the bottom of the dashboard view, when moving the mouse, a toolbar appears with the ability to select other live views or create new. Press the vertical ellipse button, then select "Add Multi View"
3. Add the desired cameras to the Multiview, give the Multiview a name, and then select "Share Multi-View Grid".



Notes

- Shared Live Views are created and managed in UniFi Protect.
- The Driver periodically re-queries the controller, so Live View names and count stay current.
- Up to 30 Shared Live Views per Viewport are supported.
- The Shared Live View currently shown on the Viewport is reported back as status and updates whenever it changes, including changes made outside of Crestron Home.
- The Driver is only compatible with the UP-Viewport. Tests on UNVR Instant have shown that the HDMI output is not available for control. No tests have been done on other model NVR's.

Camera Control Driver

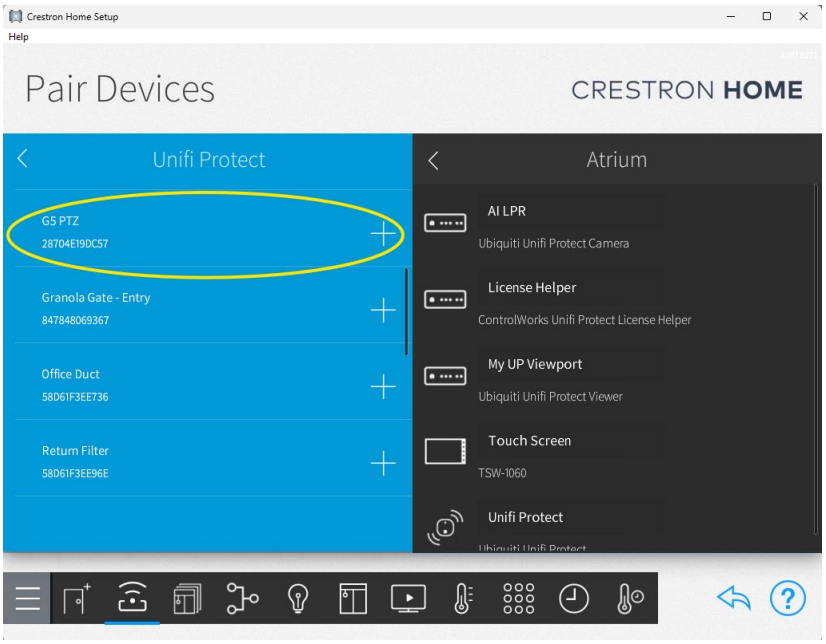
Every camera on the UniFi Protect controller becomes its own Managed Platform Driver.

At this time, the only controls the Camera Control Driver provides are related to PTZ: preset recall, home, and patrol tours, all available through Sequences and Quick Actions. Because Unifi Protect does not identify that a camera supports PTZ or not, the full set of PTZ commands appears on every camera, but not every camera supports every command. Some PTZ cameras only support preset recall. PTZ Presets are managed in Unifi Protect.

Important: This Driver does not facilitate or provide viewing live camera streams.

Adding the Camera Control Driver

1. In the Crestron Home Setup tool, navigate to Pair Devices.
2. Select Managed Platforms.
3. Select the Driver folder with the name you used when setting up the Platform Driver.
4. Locate the camera, shown by its UniFi Protect name and its MAC address, and press the + button to add it to a room.



Configuration Items

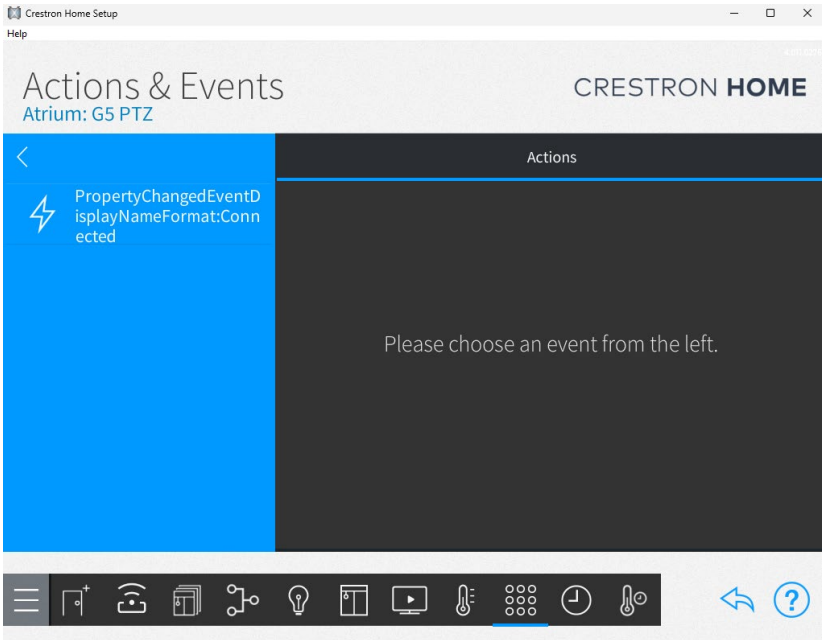
This Driver does not have any configuration items.

User Interface Controls

This Driver does not contain a user interface.

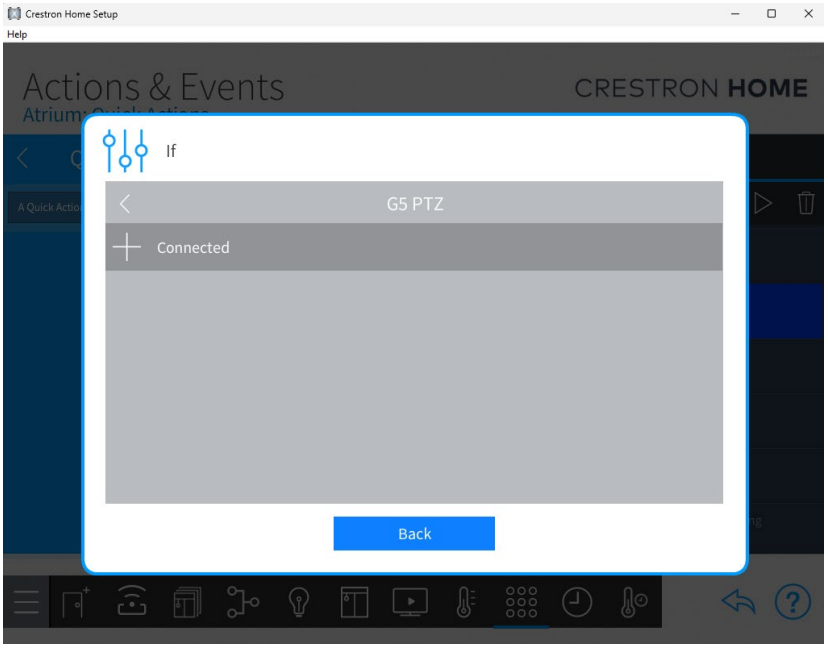
Events

- **Connected:** Is raised whenever the camera's connection state changes.



Conditional Values

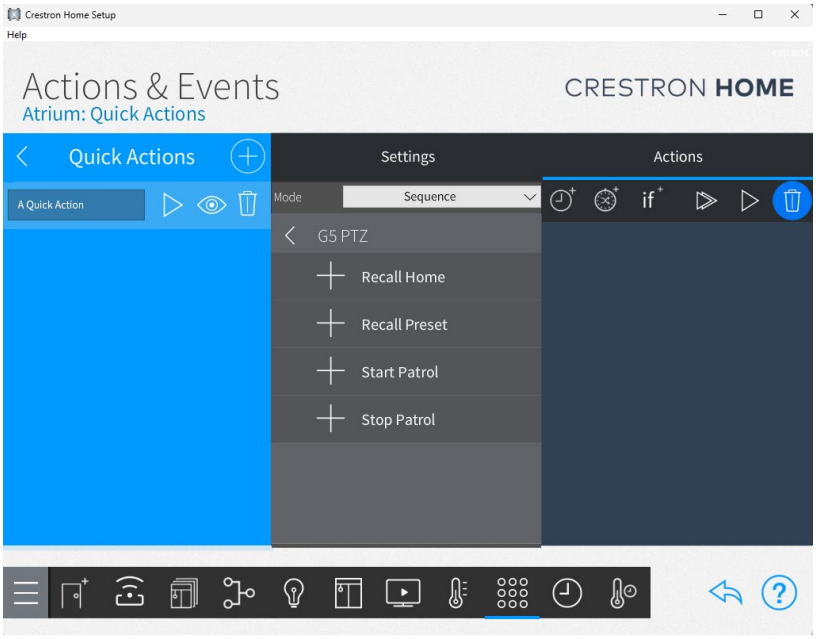
- **Connected [Boolean]:** True when the camera is connected to the controller, False when it is not.



Actions

The following commands are available through Sequences:

- **Recall Preset:** Moves the camera to a saved preset position. The preset is specified by number, starting at 0, matching the presets defined on the camera in UniFi Protect.
- **Recall Home:** Moves the camera to its home position.
- **Start Patrol:** Starts a patrol tour. The patrol is specified by number, from 0 to 4.
- **Stop Patrol:** Stops any active patrol tour.



Notes

- PTZ support varies by camera, and the UniFi Protect API does not report what capabilities a camera has.
- A command sent to a camera that does not support it has no effect. The reason is recorded in the processor's error log (for example, a non-PTZ camera reports that it is not a PTZ type, and a PTZ camera without preset tours reports that patrol is not supported).
- This Driver provides camera control and status only. It does not carry the video stream.

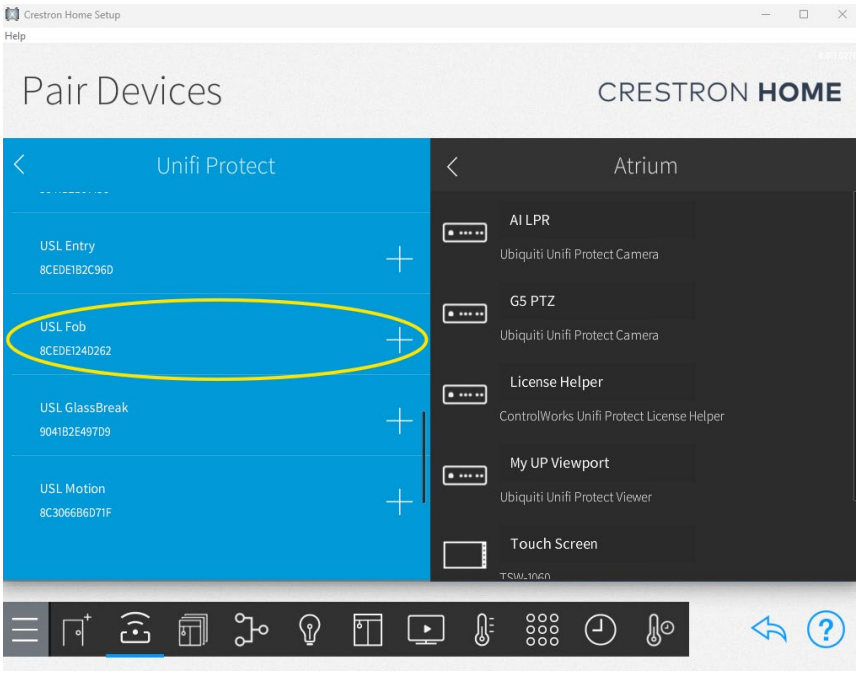
Fob Driver

Every UniFi Protect Fob (USL-FOB) on the controller becomes its own Managed Platform Driver. The Fob is a wireless security key fob, and the Driver surfaces each of its button presses as an event that can trigger a Sequence or Quick Action.

Fob button presses are momentary. The Integration API reports only a single momentary press per button. It does not provide press and release states, nor does it distinguish the single, double, and held press states that exist in the Protect application.

Adding the Fob Driver

1. In the Crestron Home Setup tool, navigate to Pair Devices.
2. Select Managed Platforms.
3. Select the Driver folder with the name you used when setting up the Platform Driver.
4. Locate the fob, shown by its UniFi Protect name and its MAC address, and press the + button to add it to a room.



Configuration Items

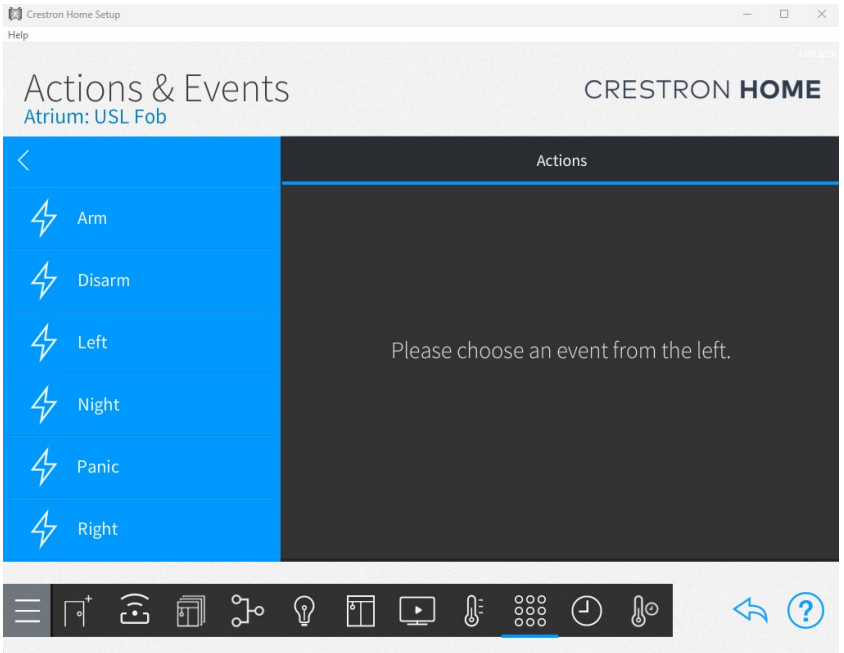
This Driver does not have any configuration items.

User Interface Controls

This Driver does not contain a user interface.

Events

- Each event is raised when its corresponding button is pressed on the fob. The fob has two interchangeable faceplates, one labeled by function (Arm, Night, Disarm, Panic) and one numbered (1 to 4). Each event is named for its button function and is raised regardless of which faceplate is installed. The number shown below is the equivalent button on the numbered faceplate:
- **Arm:** Raised when the Arm (1) button is pressed.
- **Night**: Raised when the Night (2)



button is pressed.
- **Disarm**: Raised when the Disarm (3) button is pressed.
- **Panic**: Raised when the Panic (4) button is pressed.
- **Left**: Raised when the Left button is pressed.
- **Right**: Raised when the Right button is pressed.

Actions

This Driver does not provide any actions.

Notes

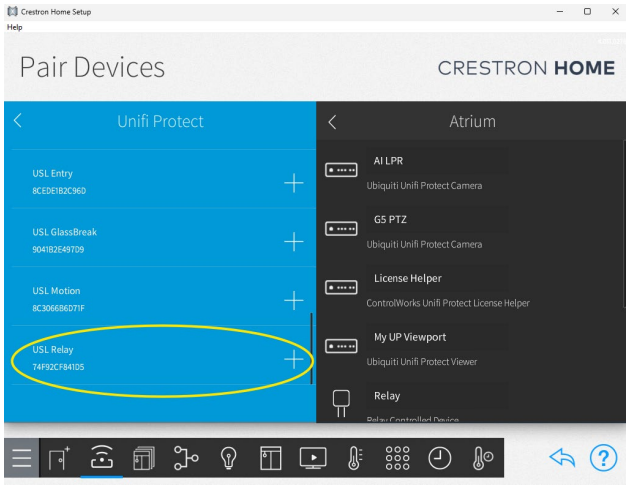
- Fob button presses are momentary events. To act on a press, assign the corresponding event to a Sequence or Quick Action.
- The Integration API reports a single momentary press per button. It does not distinguish the single, double, and held press states that exist in the Protect application.
- This Driver is compatible with the USL-FOB.

Relay Driver

Every UniFi Protect Relay (USL-Relay) on the controller becomes its own Managed Platform Driver. The Relay is a two-output, two-input device. The Driver provides commands to control the outputs, feedback on output and connection state, and events for the inputs.

The physical device labels its outputs and inputs as 1 and 2. The Driver uses those same labels, so Output 1 and Input 1 correspond to the connections marked 1 on the hardware.

Important: Inputs do not function like a native Crestron input. Each input is configured inside UniFi Protect, and that configuration determines both what the input does and which event the Driver raises. See Input Configuration below.



Adding the Relay Driver

1. In the Crestron Home Setup tool, navigate to Pair Devices.
2. Select Managed Platforms.
3. Select the Driver folder with the name you used when setting up the Platform Driver.
4. Locate the relay, shown by its UniFi Protect name and its MAC address, and press the + button to add it to a room.

Configuration Items

This Driver does not have any configuration items.

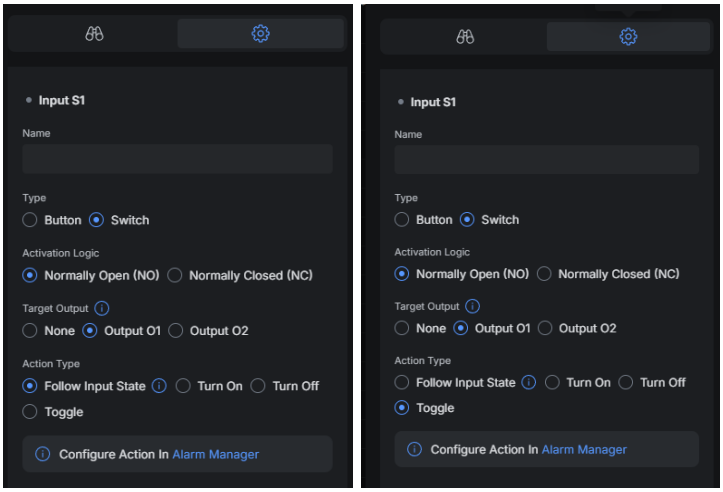
User Interface Controls

This Driver does not contain a user interface.

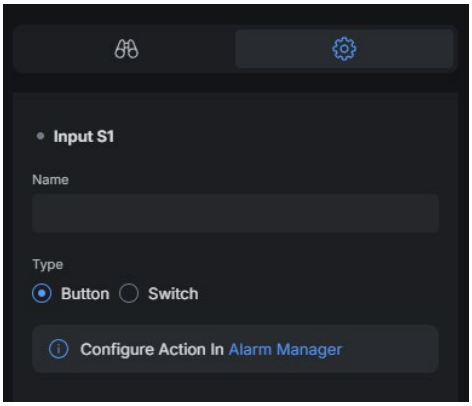
Input Configuration

Each input is configured in the UniFi Protect application, not in Crestron Home. How you configure an input determines which event the Driver raises for it. There are two behaviors:

- **Switch with a target output.** When an input is set as a Switch and assigned a target output (Output 1 or Output 2), UniFi Protect drives the assigned relay output directly, on the relay device, whenever the input changes. This actuation happens in hardware and does not involve Crestron Home. The Driver reports the input change to Crestron Home as two events: Closed when the input circuit closes, and Opened when it opens. Both a momentary close and a held close produce a Closed event on close and an Opened event on open, so this configuration reports both edges of the input.



- **Switch with no target output, or Button**. When an input is set as a Switch with no target relay output assigned, or as a Button, the Driver raises a single Pressed event for the input. The event does not fire the instant the input closes. For a brief closure, it fires when the input opens. For a sustained closure, it fires after the input has been held closed for a short time. Either way, a single closure produces exactly one Pressed event, and there is no separate open or release event.



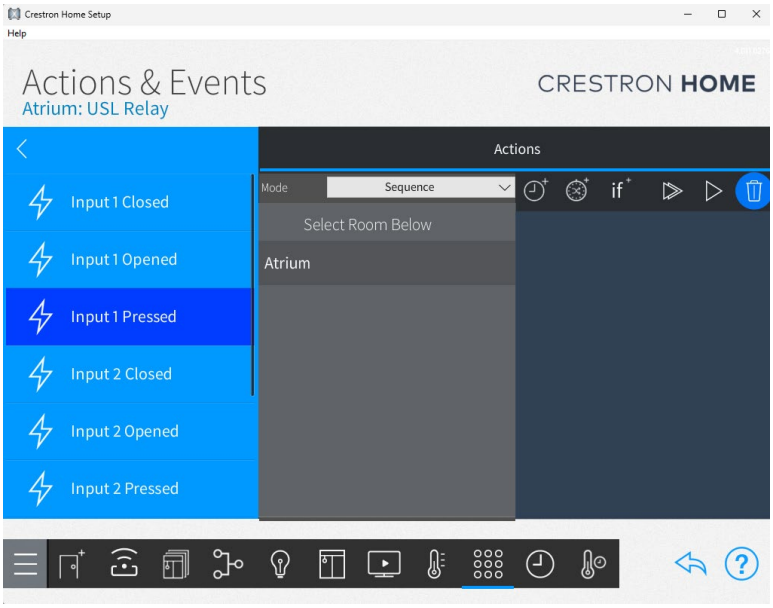
The following table summarizes the mapping:

UniFi Protect input configuration	Event the Driver raises
Type = Switch Target output = Output 1 or Output 2	Input x Closed (on close) Input x Opened (on open)
Type = Switch Target output = none	Input x Pressed (once per closure)
Type = Button	Input x Pressed (once per closure)

Events

Each event is raised when its underlying state changes or its input is triggered.

- **Connected**: Raised when the relay's connection state changes.
- **Output 1 On**: Raised when output 1 turns on or off.
- **Output 2 On**: Raised when output 2 turns on or off.
- **Input 1 Pressed / Input 2 Pressed:** Raised when the input is triggered (Switch with no target output, or Button).
- **Input 1 Closed / Input 2 Closed**: Raised when the input circuit closes (Switch with a target output).
- **Input 1 Opened / Input 2 Opened**: Raised when the input circuit opens (Switch with a target output).



Conditional Values

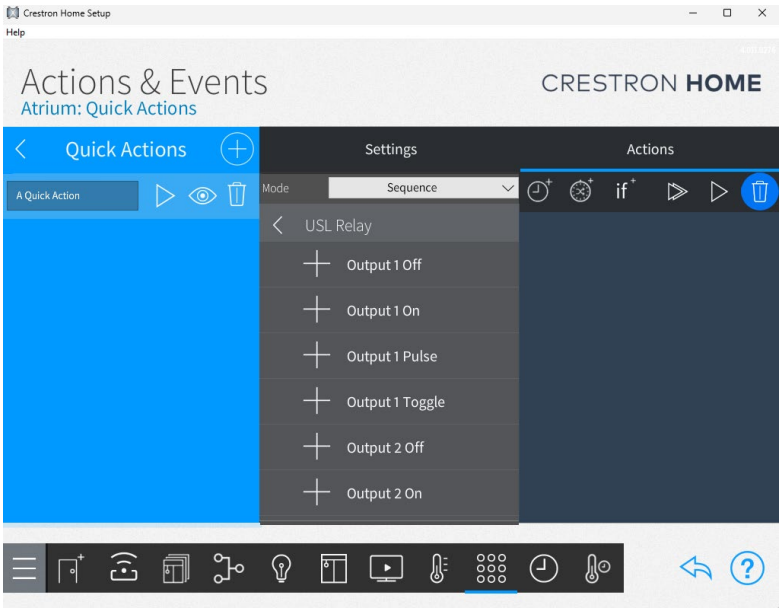
Available for use in conditional logic, such as the If condition of an expression.

- **Connected [Boolean]**: True when the relay is connected to the controller, False when it is not.
- **Output 1 On [Boolean]**: True when output 1 is on, False when it is off.
- **Output 2 On [Boolean]**: True when output 2 is on, False when it is off.

Actions

The following commands are available through Sequences:

- **Output 1 On / Output 2 On**: Turns the output on.
- **Output 1 Off / Output 2 Off**: Turns the output off.
- **Output 1 Toggle / Output 2 Toggle**: Toggles the output between on and off.
- **Output 1 Pulse / Output 2 Pulse**: Turns the output on for a specified duration in milliseconds, then off.



Notes

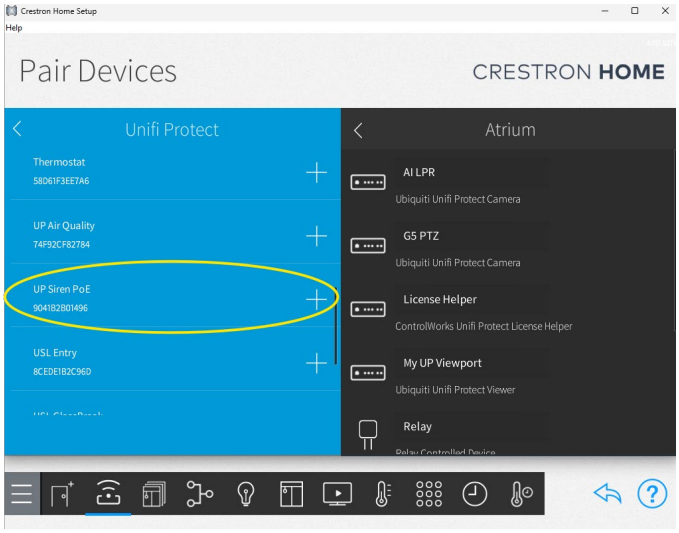
- Input events are momentary and carry no persistent state.
- Only the events matching an input's UniFi Protect configuration will be raised. An input configured as a Switch with a target output raises Closed and Opened, never Pressed; an input configured as a Button or as a Switch with no target output raises only Pressed. If an input never fires the event you expect, check its configuration in UniFi Protect.
- This Driver is only compatible with the USL-Relay.

Siren Driver

Every UniFi Protect Siren on the controller becomes its own Managed Platform Driver. The Driver provides commands to play, stop, and test the siren, along with feedback on whether the siren is currently sounding and whether it is connected.

Adding the Siren Driver

1. In the Crestron Home Setup tool, navigate to Pair Devices.
2. Select Managed Platforms.
3. Select the Driver folder with the name you used when setting up the Platform Driver.
4. Locate the siren, shown by its UniFi Protect name and its MAC address, and press the + button to add it to a room.



Configuration Items

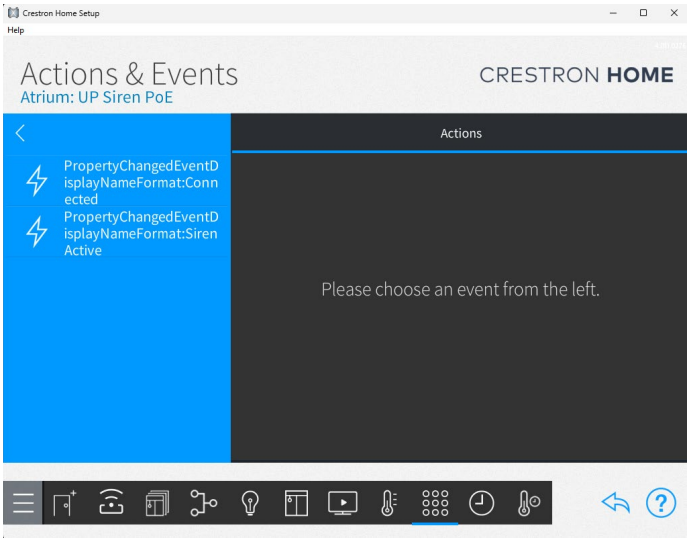
This Driver does not have any configuration items.

User Interface Controls

This Driver does not contain a user interface.

Events

- **Connected:** Is raised when the siren's connection state changes.
- **Siren Triggered:** Is raised when the siren starts sounding.



Conditional Values

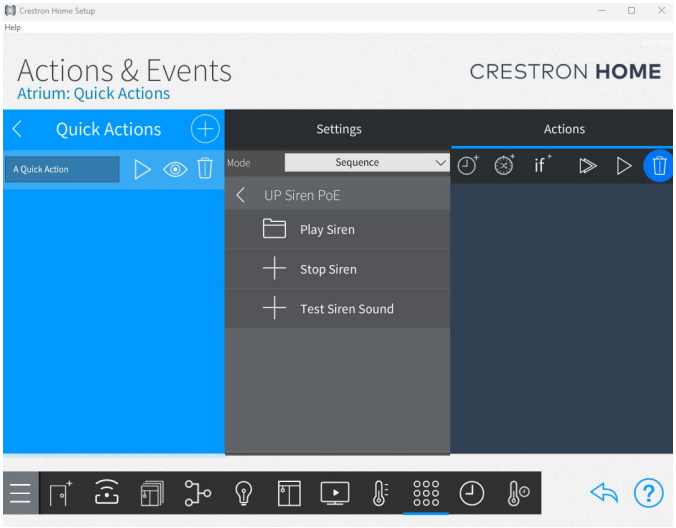
Available for use in conditional logic, such as the If condition of an expression.

- **Connected [Boolean]:** True when the siren is connected to the controller, False when it is not.

Actions

The following commands are available through Sequences:

- **Play Siren:** Sounds the siren for the selected duration. The Duration is chosen from a list of 5, 10, 20, or 30 seconds.
- **Stop Siren:** Stops the siren immediately.
- **Test Siren Sound:** Plays a short test tone at the specified volume, entered as a value from 1 to 100 (default 50).



Notes

- The siren sounds for the duration selected when it is played, and stops on its own when that time elapses. Use Stop Siren to end it early.
- This Driver is only compatible with the UP-Siren-POE. The USL-Siren has not been tested.

Support

This driver is supported by ControlWorks Consulting, LLC. For support, you can contact us during our normal office hours, 9 AM to 5 PM US Eastern Time, Monday through Friday, excluding holidays, using one of the methods listed below.

Telephone:
- (+1) 440-449-1100
- (+1) 508-695-0188
- (+1) 202-381-9070
- (+44) 020 4520 4600

Web: https://www.controlworks.com/contact-us/
Email: support@controlworks.com
Online Chat: https://controlworks.com

Before calling for support, please ensure that you have the Driver loaded into the Crestron Home system, and have reviewed the error log.

Updates, when available, are automatically distributed via email notification to the address entered when the Driver was purchased. In addition, updates may be obtained using your username and password at https://store.controlworks.com/account/login.aspx.

Distribution Package Contents

The distribution package for this module should include:

Distribution Contents	
ControlWorks_Platform_Ubiquiti_Unifi_Protect_TCP-IP.pkg	Crestron Home Driver
ControlWorks_Platform_Ubiquiti_Unifi_Protect_TCP-IP _V1.0_Help_(ControlWorks).pdf	This Help file

Revision History

V1.0.0 caleb@controlworks.com 2026.08.11
- Initial Release

Development Environment

This Driver version was developed on the following hardware and software. Different versions of hardware or software may or may not operate properly. If you have questions, please contact us.

Testing Environment	
Manufacturer Hardware	**Software Version**
UDM Pro SE	5.1.26
Unifi Protect	7.2.101
Crestron Hardware	**Firmware Version**
CP4-R V1 Processor	FW: 2.8000.00056 OS: 4.005.0290
CP4-R V2 Processor	FW: 2.8000.00056 OS: 4.005.0290
PC4-R	FW:2.8002.00130 OS: 4.005.0290
SDK Version	21.0100.0042
TSW-1070	v1.002.0040.001
TSW-1060	v3.000.0014

ControlWorks Consulting, LLC License Agreement

Definitions:
ControlWorks, *We*, and *Us* refer to ControlWorks Consulting, LLC, with headquarters located at 8228 Mayfield Road, Suite 6B Rear Chesterland, Ohio 44026. *You* and *Dealer* refer to the entity purchasing the module. *Client* and *End User* refer to the person or entity for whom the Crestron hardware is being installed and/or will utilize the installed system. *System* refers to all components described herein as well as other components, services, or utilities required to achieve the functionality described herein. Instance License refers to a module license that is granted to a specific combination of a Crestron Processor and a single Controlled Device (for example, based on the respective serial numbers or other uniquely identifying information); a separate Instance License must be purchased for each such combination. *Module* refers to files required to implement the functionality provided by the Module and may include source files with extensions such as UMC, USP, SMW and VTP. *Driver* refers to the files required to implement the functionality in the Crestron Home environment. *Demo Program* refers to a group of files used to demonstrate the capabilities of the Module, for example a SIMPL Windows program and VisionTools Touchpanel file(s) illustrating the use of the Module but not including the Module. *Software* refers to the Module and the Demo Program.

Disclaimer of Warranties
ControlWorks Consulting, LLC software is licensed to You as is. You, the consumer, bear the entire risk relating to the quality and performance of the Software. In no event will ControlWorks Consulting, LLC be liable for direct, indirect, incidental or consequential damages resulting from any defect in the Software, even if ControlWorks Consulting, LLC had reason to know of the possibility of such damage. If the Software proves to have defects, You and not Us must assume the cost of any necessary service or repair resulting from such defects.

Provision of Support
We provide limited levels of technical support only for the most recent version of the Module and Driver as determined by Us. We do not provide support for previous version of the Module or Driver, modifications to the Module or Driver not made by Us, to persons who have not purchased the Module, Driver, or corresponding license(s) from Us. In addition, we may decline to provide support if the Demo Program has not been utilized. We may withdraw a Module, Driver, or corresponding license(s) from sale and discontinue providing support at any time and for any reason, including, for example, if the equipment for which the Module or Driver is written is discontinued or substantially modified. The remainder of your rights and obligations pursuant to this license will not be affected should ControlWorks discontinue support for a Module or Driver.

Modification of Software
You may not decrypt (if encrypted), reverse engineer, modify, translate, disassemble, or de-compile the Module or Driver in whole or part. Any modifications to the Module or Driver shall immediately terminate any licenses purchased with respect thereto. You may, however, modify the Demo Program. In no event will ControlWorks Consulting, LLC be liable for direct, indirect, incidental or consequential damages resulting from You modifying the Software in any manner.

Indemnification/Hold Harmless
ControlWorks, in its sole and absolute discretion may refuse to provide support for the application of the Module or Driver in such a manner that We feel has the potential for property damage, or physical injury to any person. Dealer shall indemnify and hold harmless ControlWorks Consulting LLC, its employees, agents, and owners from any and all liability, including direct, indirect, and consequential damages, including but not limited to personal injury, property damage, or lost profits which may result from the operation of a program containing a ControlWorks Consulting, LLC Module or any component thereof.

License Grant
This Module or Driver is licensed under the Instance License system, and Licenses are valid only for the specific combination of Crestron Processor and Controlled Device identified when the License was purchased or otherwise acquired and licenses may not be transferred to other Crestron processors or controlled devices. In ControlWorks sole discretion, ControlWorks may grant a transfer of an existing license to a new Crestron Processor or Controlled Device, not both. If granted, transfer may be subject to an administrative fee as determined by ControlWorks from time to time.

Software authored by ControlWorks remains the property of ControlWorks. Upon purchasing an Instance License, ControlWorks grants You the non-exclusive, non-transferable, perpetual license to use the specific Software authored by ControlWorks as a component of Systems programmed by You for which a Module Instance License has been acquired. This Software is the intellectual property of ControlWorks Consulting, LLC and is protected by law, including United States and International copyright laws. This Software and the accompanying license is valid only for the specific Crestron Processor and Controlled Device identified at the time the license was purchased or otherwise acquired and may not be transferred, resold, or assigned by any means.

The use of this software indicates acceptance of the terms of this agreement.