1HOME CRESTRON HOME

INTEGRATION DRIVER MANUAL

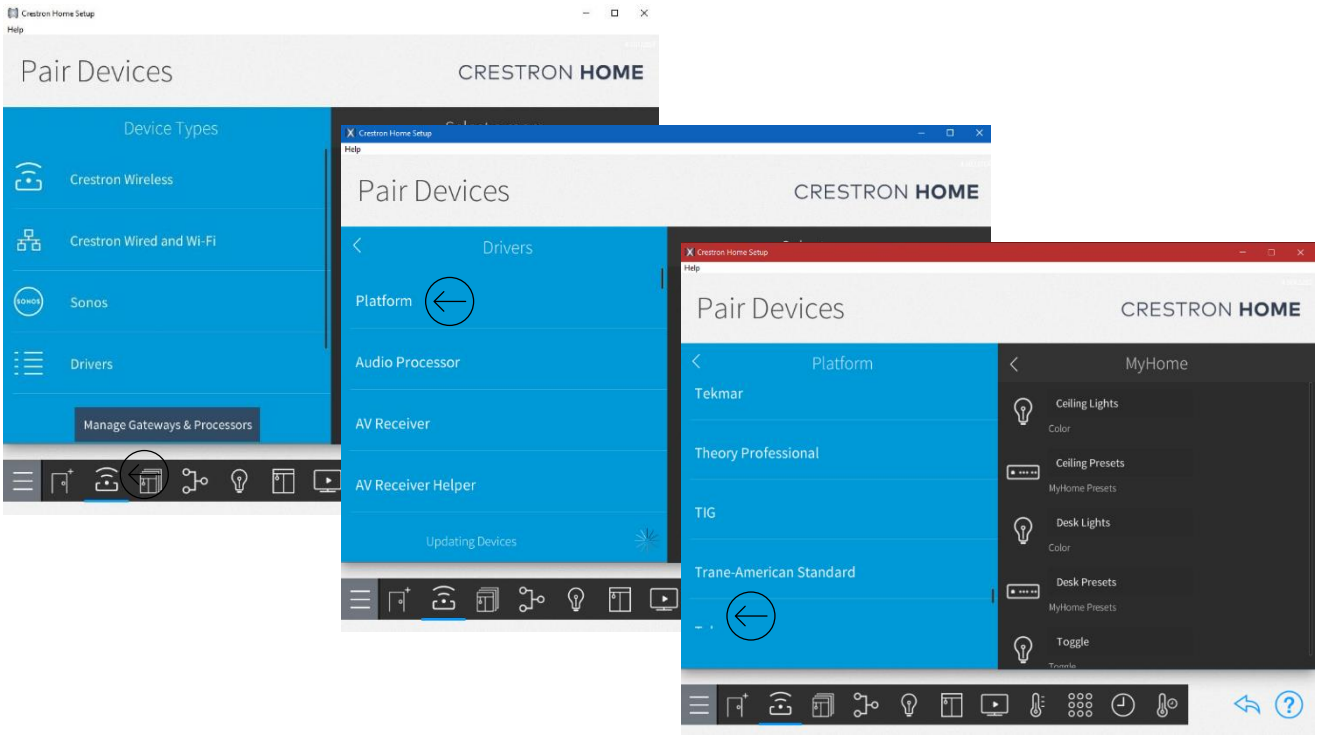
V25.08.06 - OS4.6

Crestron Home - a premium full feature smart home environment for luxury housing

([Crestron Home App Quick Start Guide])

To Install – Navigate here in Crestron CH Configurator

Device Types > Drivers > Platform > TIG > 1HOME



Contents

What Can Be Done?

This driver enables enhanced control and monitoring of supported devices within the 1Home KNX/Matter ecosystem, leveraging the latest SDK capabilities from Crestron Home to provide a robust and sleek user-friendly experience using the Crestron Home App and OS4 connected Crestron / KNX and Matter devices. OS4.6 will be the last supported version for Hardware Version 1 processors, please upgrade to version 2 processors for all updates and future device support after OS4.6.

All devices are built on driver framework V2 (Entity model, please refer to the release notes for all newly support features) – Device support extends only as far as the native SDKs publicly released by Crestron Home. Since native SDKs for Shades and Thermostats have not yet been released, custom implementations have been developed on this platform to enable integration.

Hardware / Software / Firmware

Crestron Home 4 Series Processors: RESIDENTIAL PROCESSORS ONLY

HW: DIN-AP4-R / MC4-R / CP4-R / PC4-R

HW: CP4-R V1 processors support up to OS4.6

HW: CP4-R V2 processors for all updates after OS4.6+

SW: Access to Crestron Home Configurator

SW: Access to 1Home Server Dashboard

SW: Access to Crestron Home Mobile App

FW: CONTACT 1HOME FOR PRODUCT PURCHASE WITH LATEST FIRMWARE

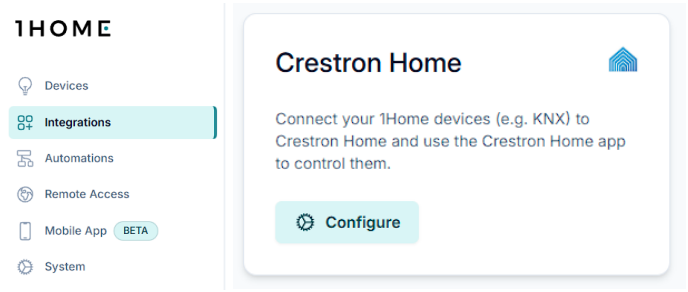
FW: Email -- support@1home.io

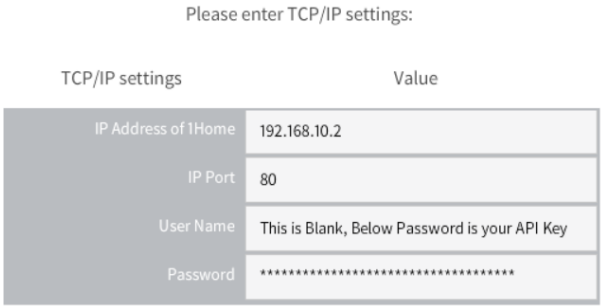
Config / Network

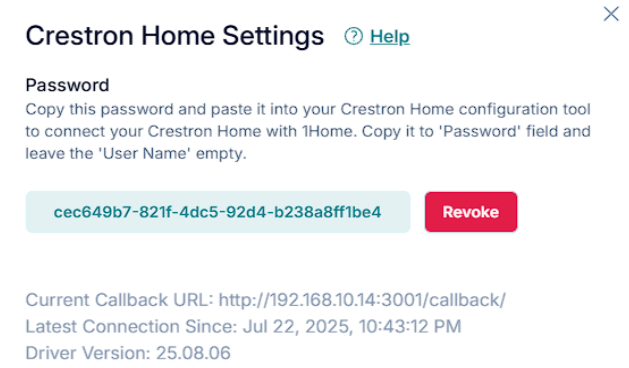
Ensure that port 80 is accessible from the Processor to facilitate necessary standard communications, so in case the port communications between 1Home and Crestron changes, please contact 1Home and ensure the port configuration is correct if not connected. Callback ports for 3000, upwards, 3001, 3002 to 3010 should not be utilized by other servers on the network, in the callback communication is interrupted, please reach out to support or allow the CH Processor priority to listen on the network for these ports.

CONFIGURING 1HOME CRESTRON HOME INTEGRATION DRIVER EXTENSION

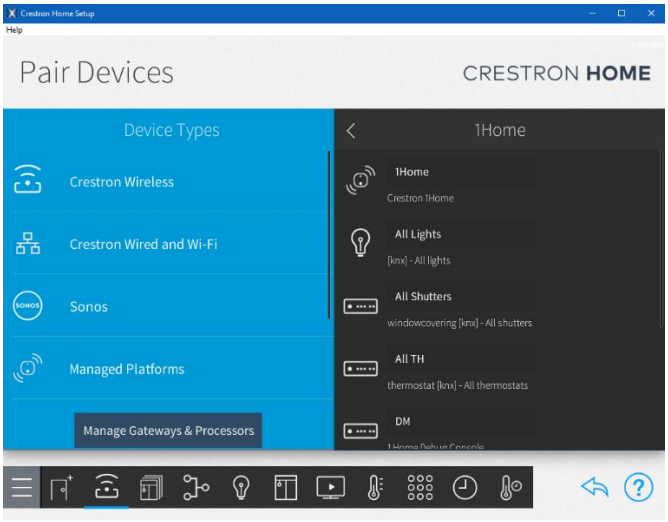
Upon installing the driver, you will be prompted to enter the IP address of the 1HOME Server. Valid inputs should be within the IP range, such as "192.168.10.2", The Port is default 80, and further an App Token from 1Home would need to be pasted into CH in the Password field, Username can be left blank or Left with startup text.

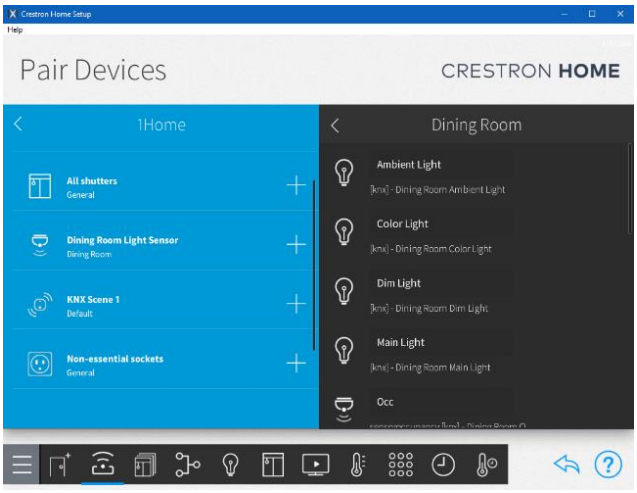






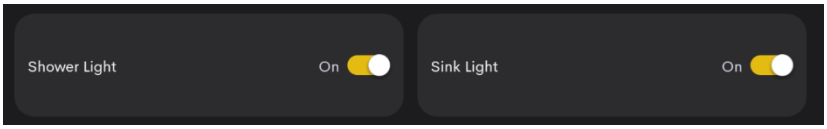
After the Driver has been added, Navigate to Managed Platforms, where you will find all Imported devices created in 1Home on CH





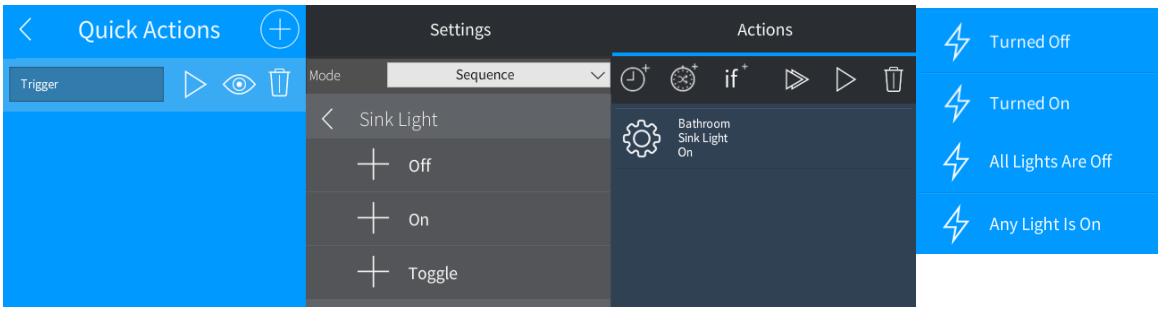
Devices can further be added here to each Room; devices will show with icons per device type with the room name and type identifier.

- lightonoff: Supports on/off functionality in Home OS, Scenes, Actions, Events.
- Provides basic control to turn lights on or off.
- Ideal for simple lighting systems, scenes and automation actions and events.

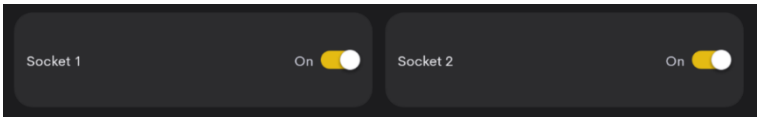


ACTIONS:

EVENTS:

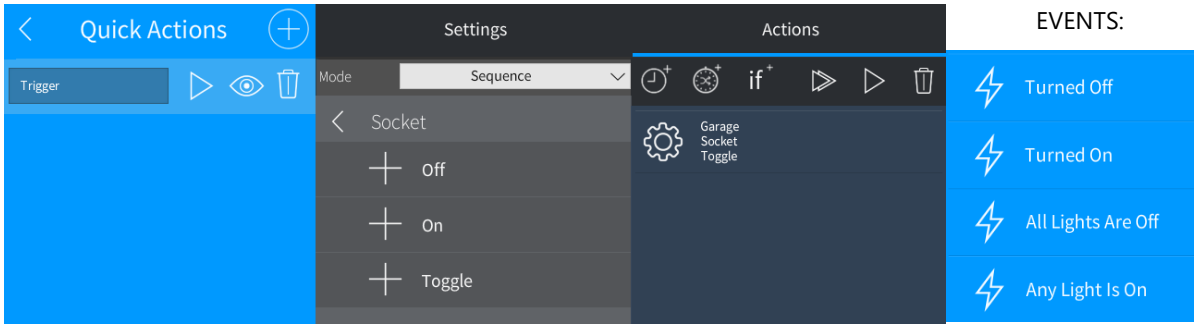


- socketonoff: On/off control for sockets in Home OS, Scenes, Actions, Events.
- Enables on/off control for connected electrical devices.
- Suitable for managing power outlets and simple electrical devices.

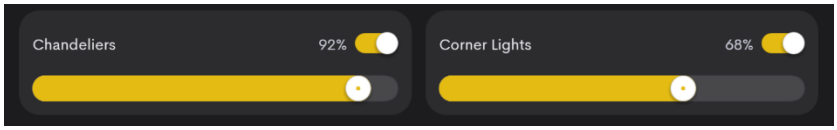


ACTIONS:

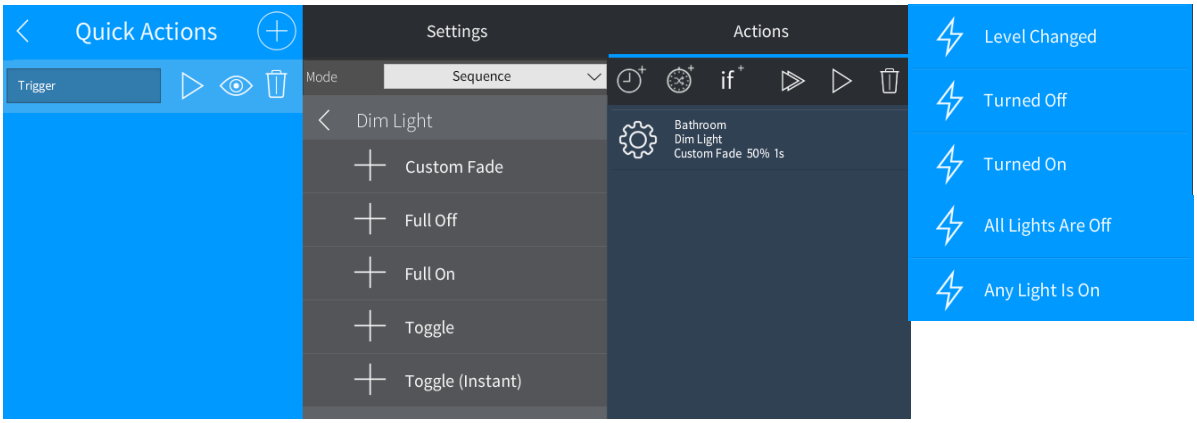
EVENTS:



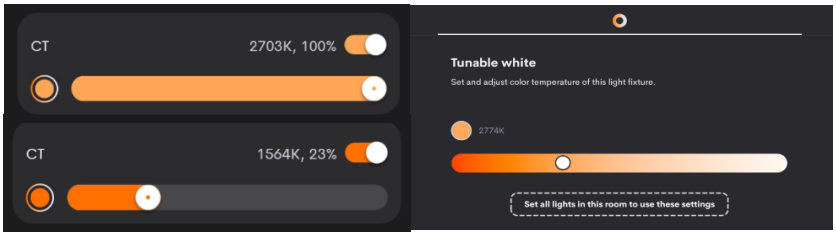
- lightdim: Allows dimming control in Home OS, Scenes, Actions, Events.
- Allows for dimming control to adjust the brightness of lights.
- Does not support Transition Time from within Crestron Home, dimming can only be done on KNX.



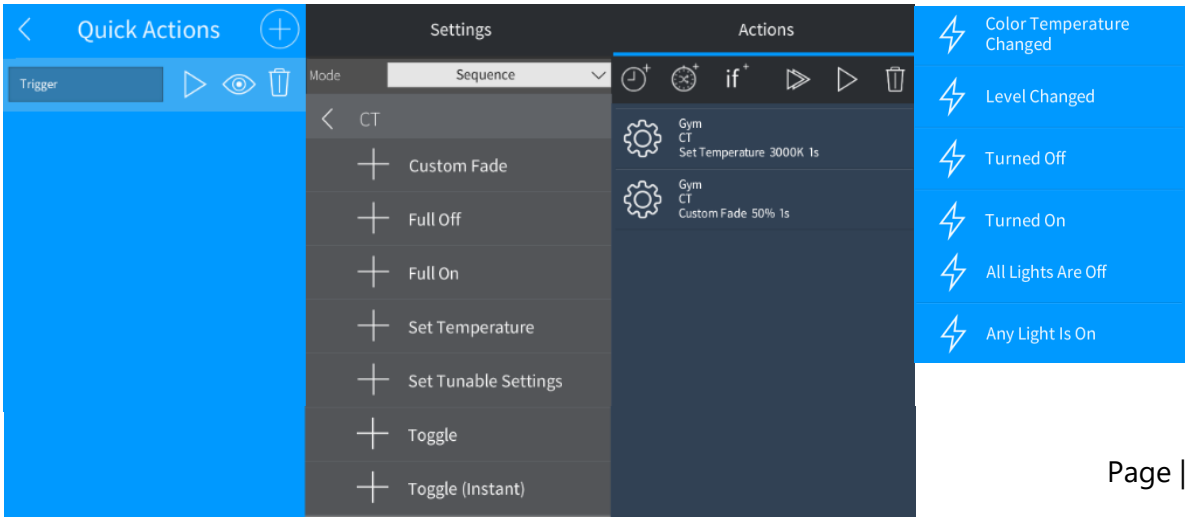
ACTIONS: EVENTS:



- lightct: Supports color temperature control in Home OS, Scenes, Actions, Events.
- Supports adjusting the color temperature of lights, ranging from warm to cool tones.
- Enables fine-tuning of ambiance using Kelvin temperature scales.

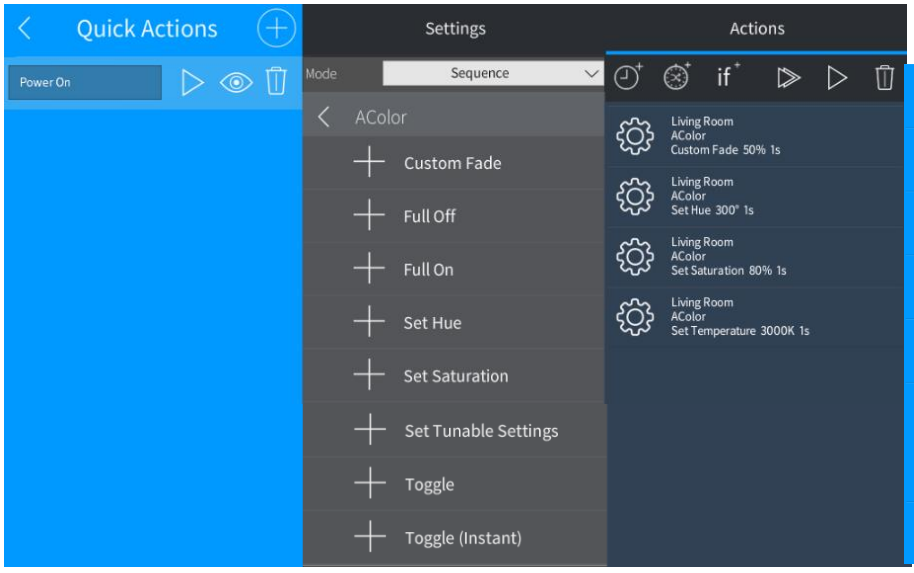


ACTIONS: EVENTS:

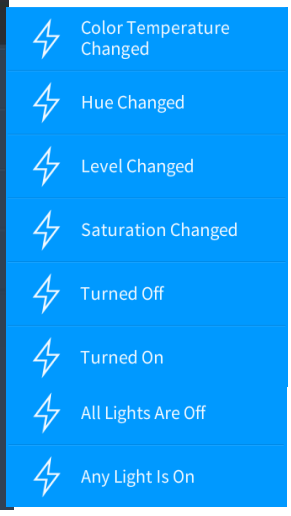


- lightcolor: Supports full-color control in Home OS, Scenes, Actions, Events.
- Offers full RGB color control for lighting, enabling custom color settings.
- Also supports brightness and color temperature adjustments for a comprehensive lighting experience.

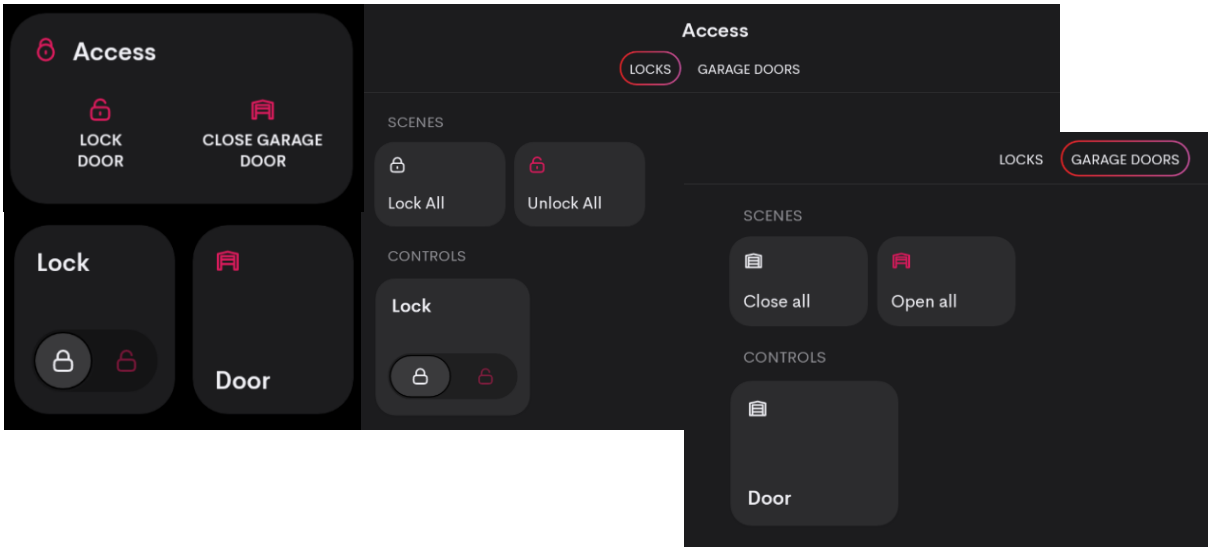
ACTIONS:



EVENTS:

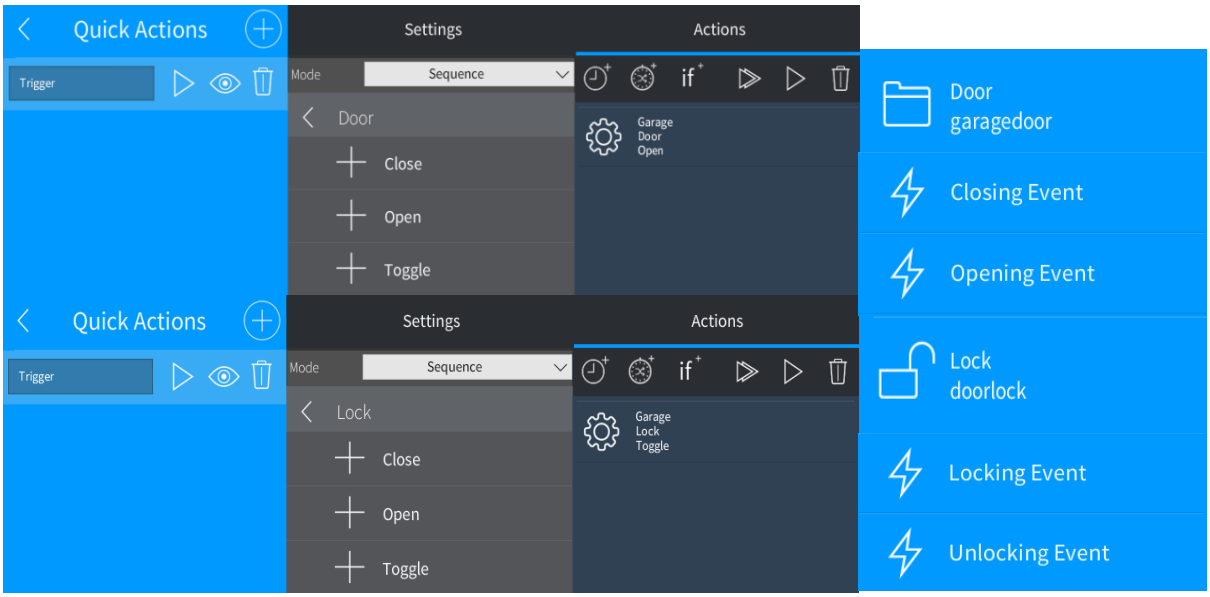


- doorlock: Lock/unlock functionality in Home OS, Actions, Event.
- Provides functionality to lock or unlock doors.
- Supports secure access and status monitoring.

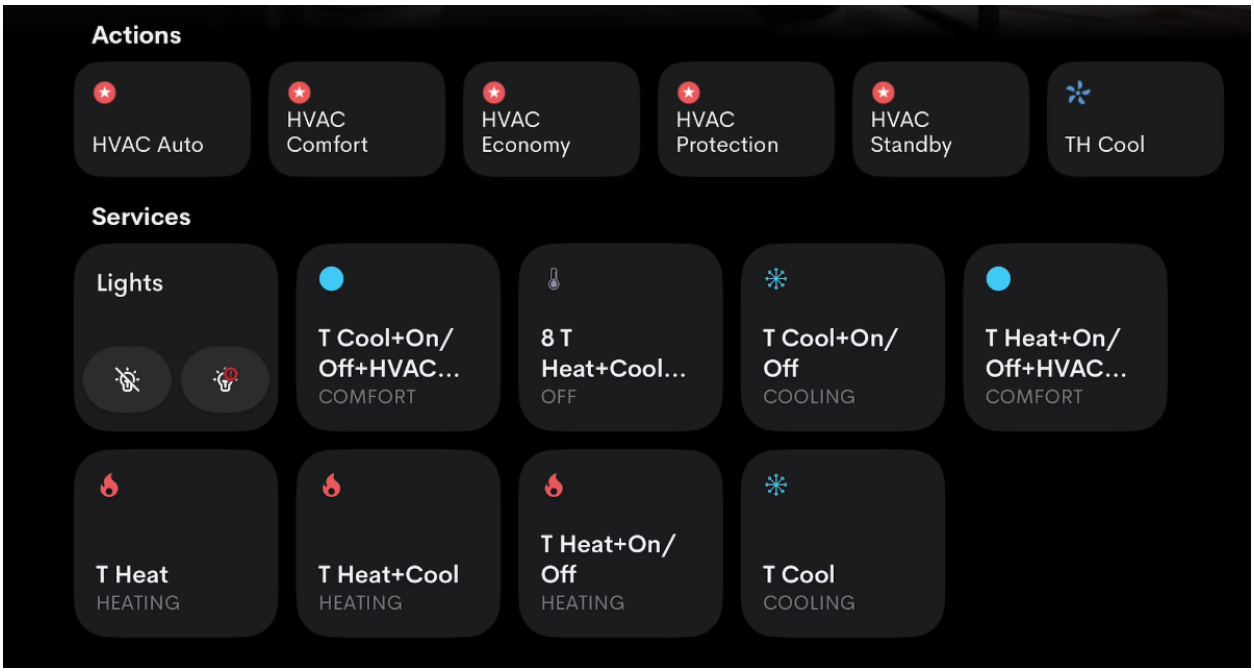


- garagedoor: Open/Close functionality in Home OS, Actions, Event.
- Provides control for opening
- and closing garage doors.
- Includes status monitoring to ensure safety and proper operation.

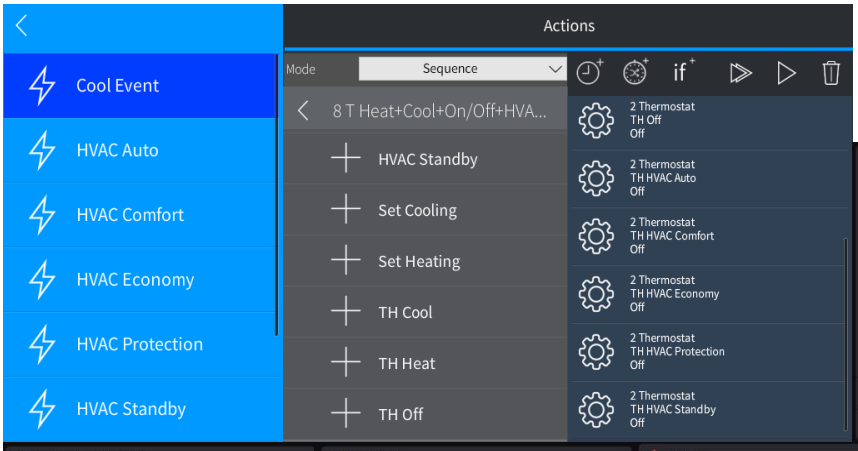
ACTIONS:



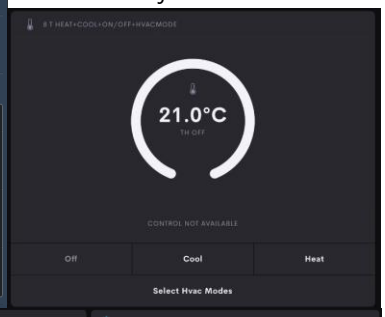
- thermostat: Manage heating and cooling setpoints, system modes (Actions, Events).
- Manages heating and cooling setpoints, mode states and HVAC operation modes.
- (Events for Thermostat and Aircon will populate dynamically according to the configuration done on 1Home)
- Supports modes such as auto, heat, and cool, and HVAC Modes for fine control over room temperature.

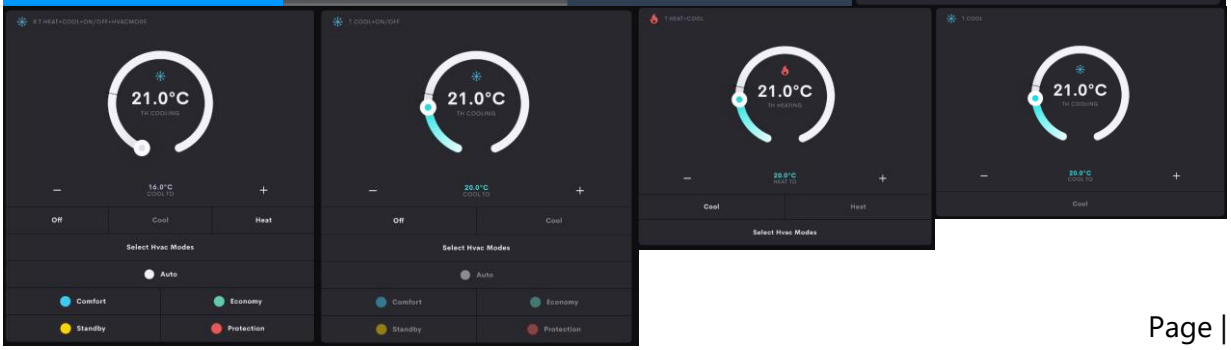


ACTIONS:

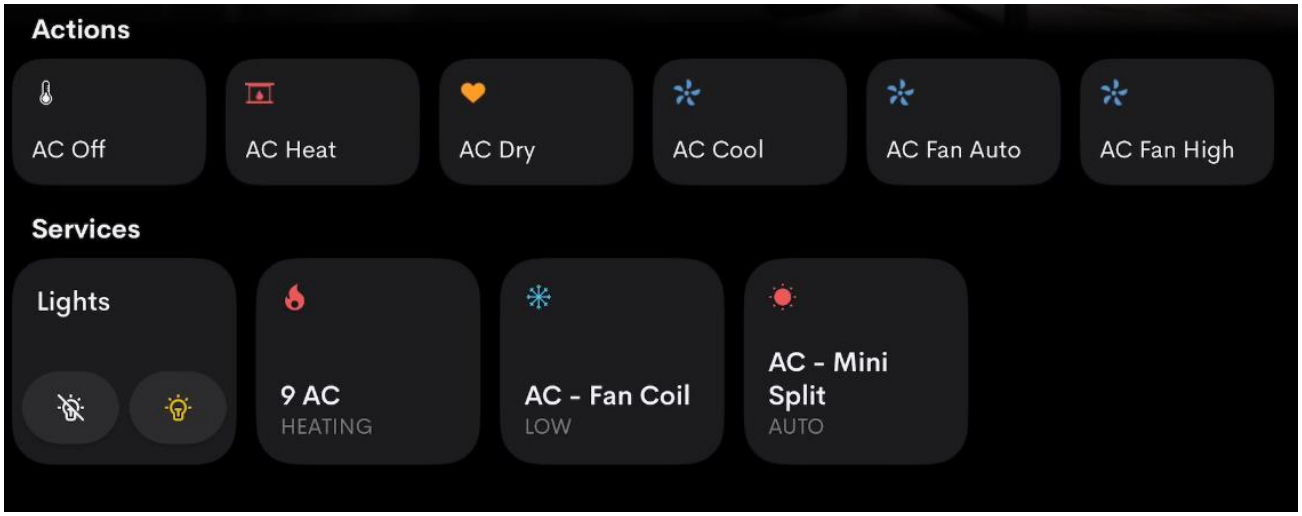


Events and Actions will populate according to the KNX device and settings done in 1Home. The UI below will adjust to follow.



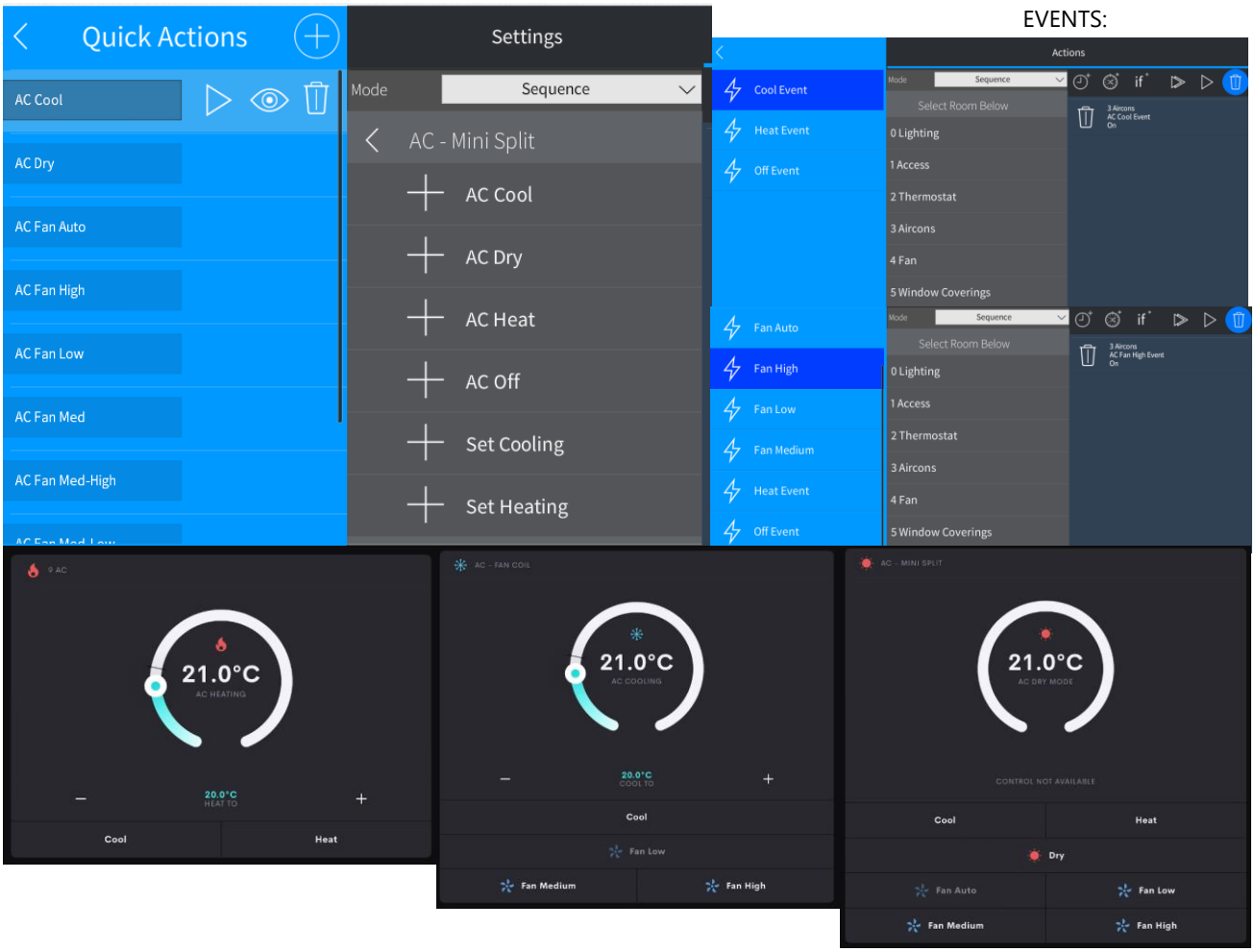


- roomairconditioner: Control fan and temperature settings (Actions, Events).
- Controls air conditioning units, including fan speed and operational modes (cool, heat, fan, dry).
- Provides real-time monitoring and adjustments for comfort.

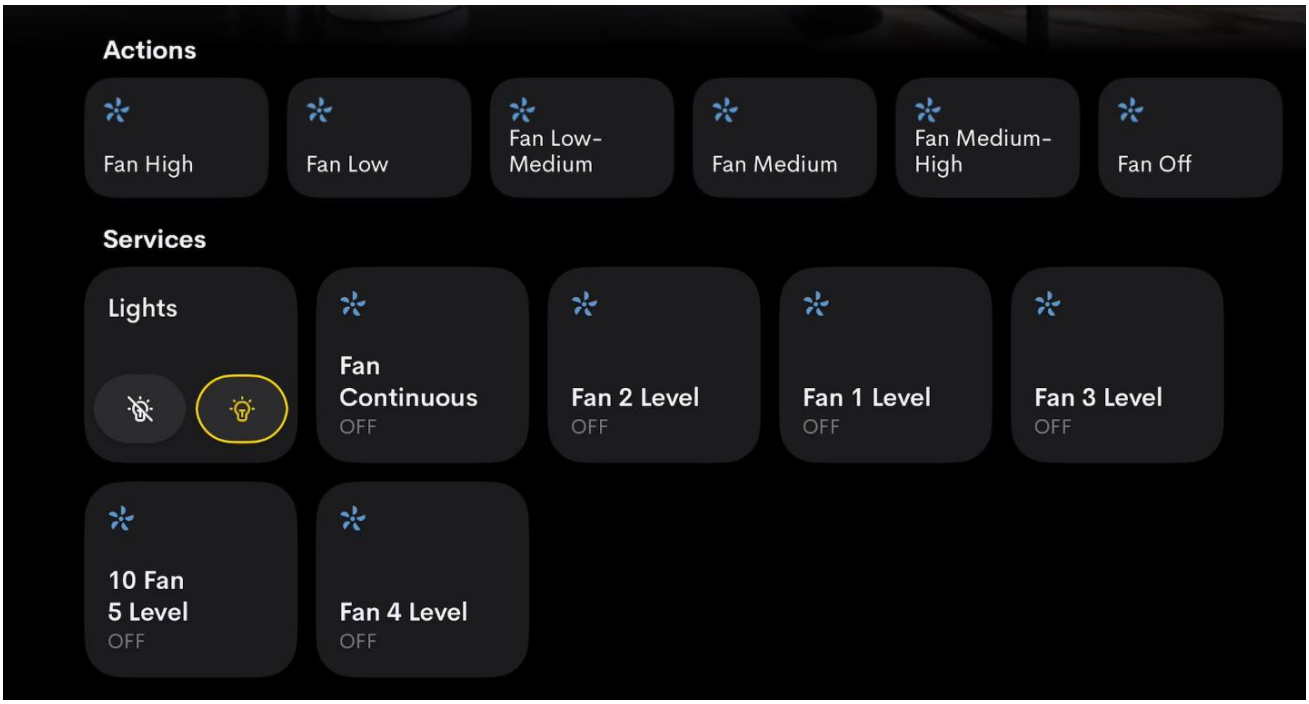


ACTIONS:

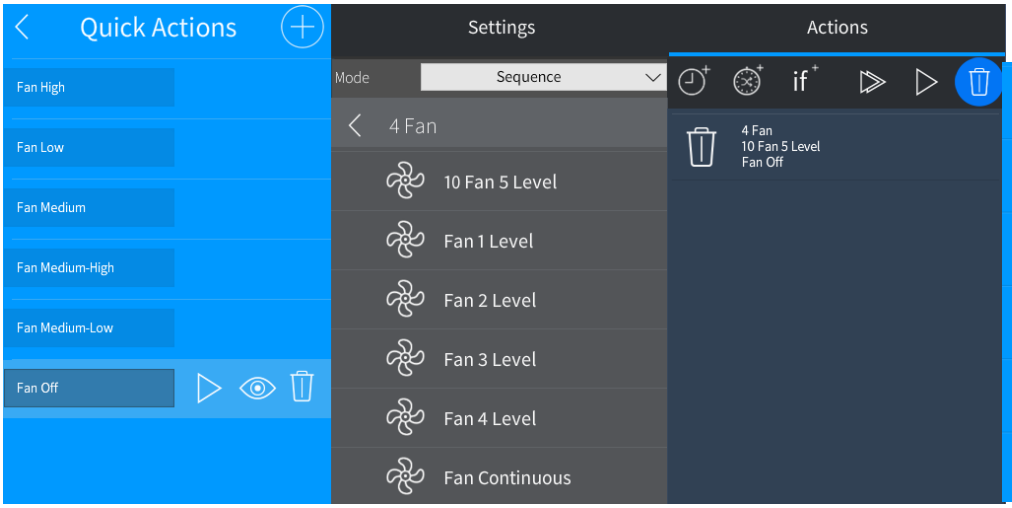
EVENTS:



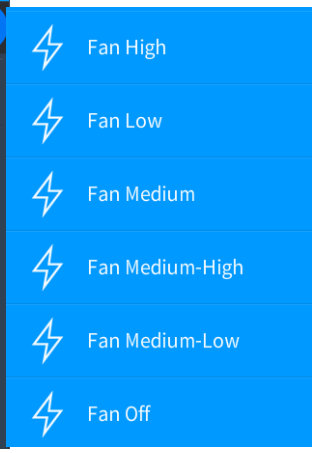
- fan: Control dedicated Fan Devices (Scenes, Actions, Events)



ACTIONS:

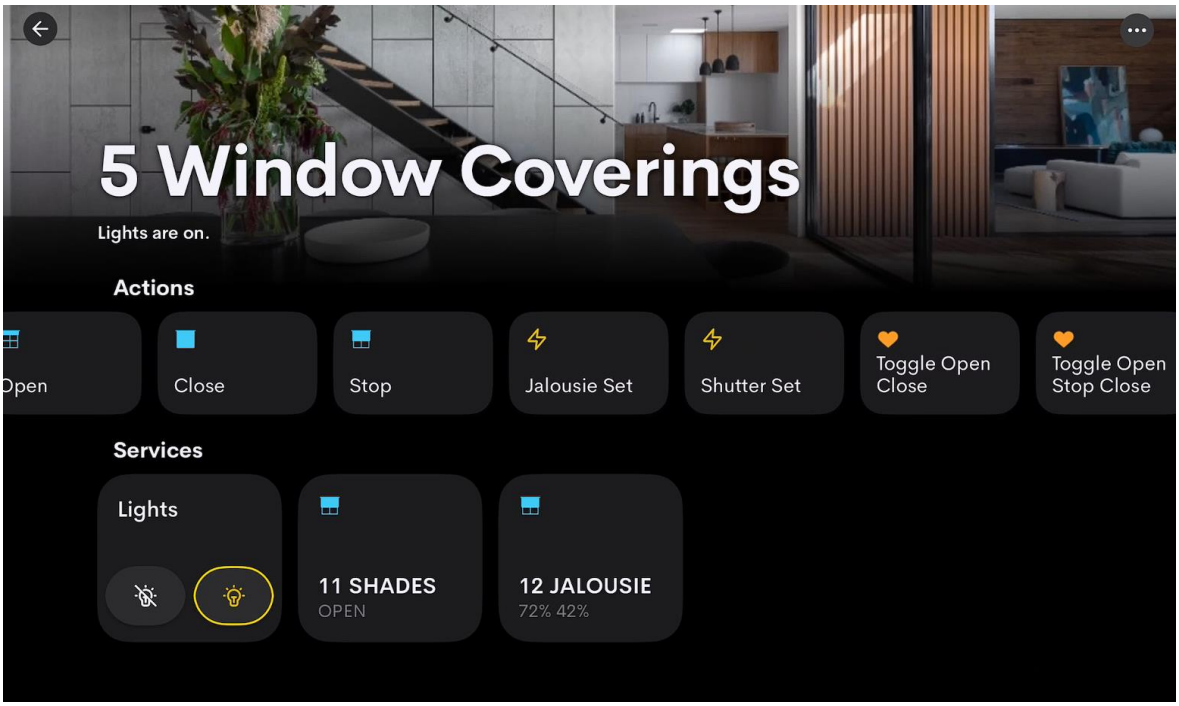


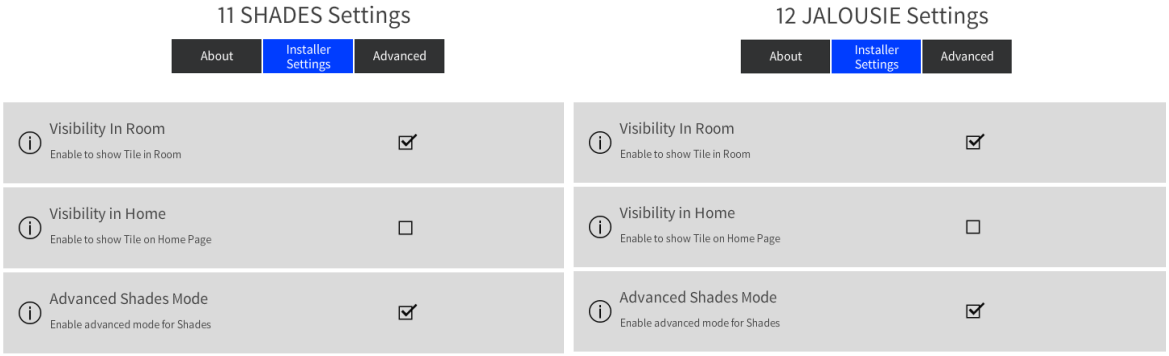
EVENTS:



Each Fan stage will have actions and events populate dynamically according to the 1Home Settings and KNX Supports.

- windowcovering:
- Enables opening, closing, and tilt control for Shutters and Jalousie Devices

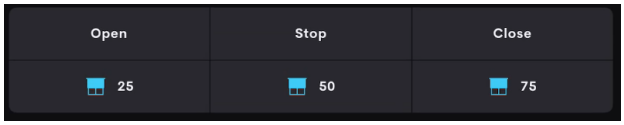




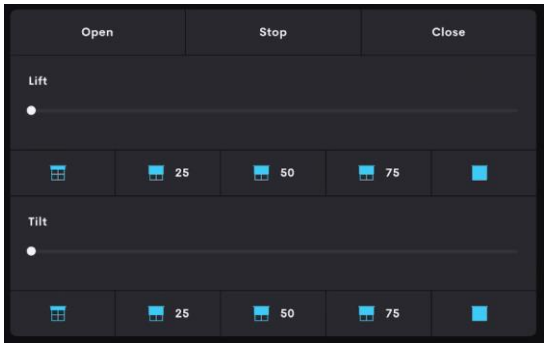
Visibility In Room or In Home can be set for each using the Installer Settings Section.

SHUTTER ADVANCED MODE: vs Basic Mode will layout the buttons for the device differently.

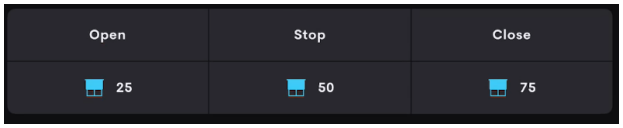
SHUTTERS BASIC LAYOUT:



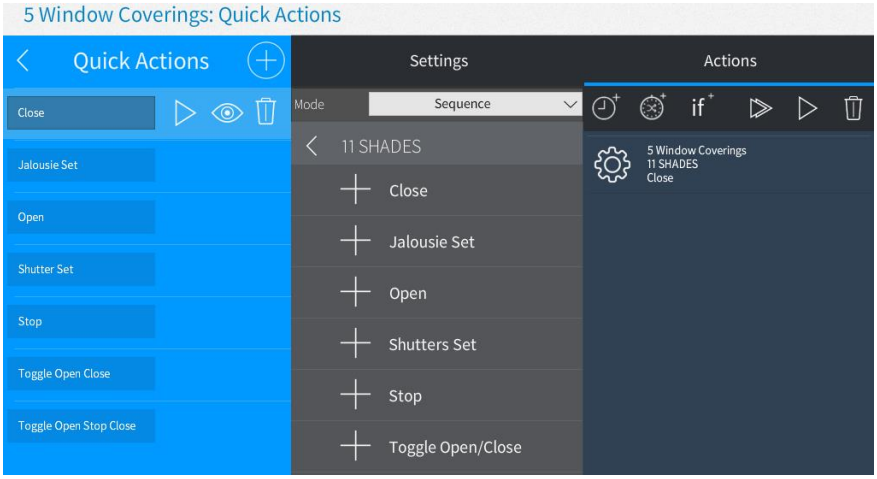
JALOUSIE ADVANCED MODE:



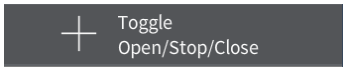
JALOUSIE BASIC MODE:



ACTIONS:



Use for Keypad Trigger

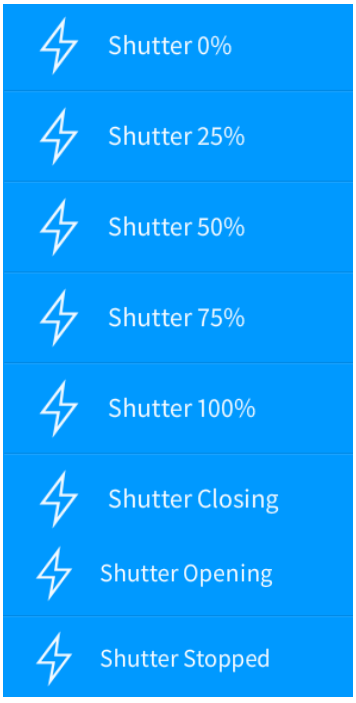


Shutters Support Lift Set

Jalousie Support Tilt Set

Set target lift or tilt for each below using integer 0 - 100

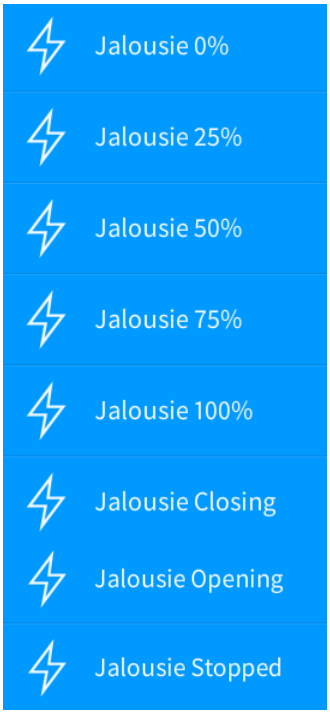
EVENTS: LIFT

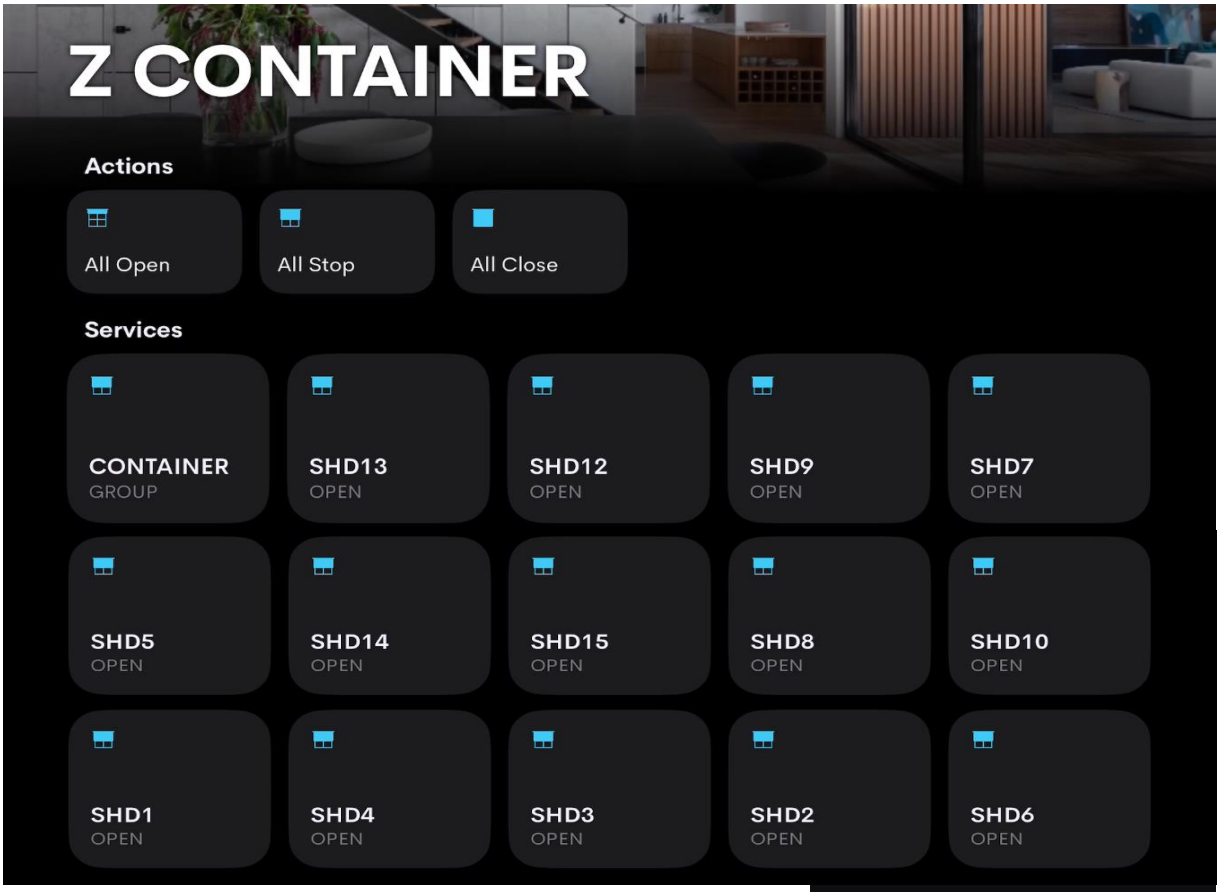


Jalousie will show events where Lift is supported, In addition to this,

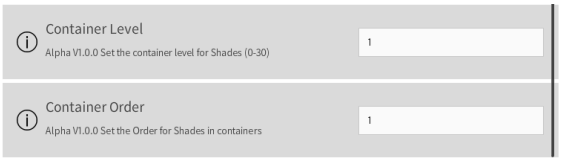
If Tilt is supported the next set of Event will be visible as seen below.

EVENTS: TILT



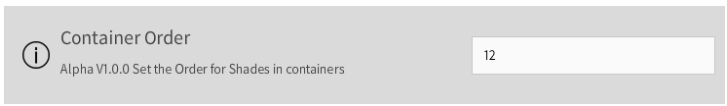


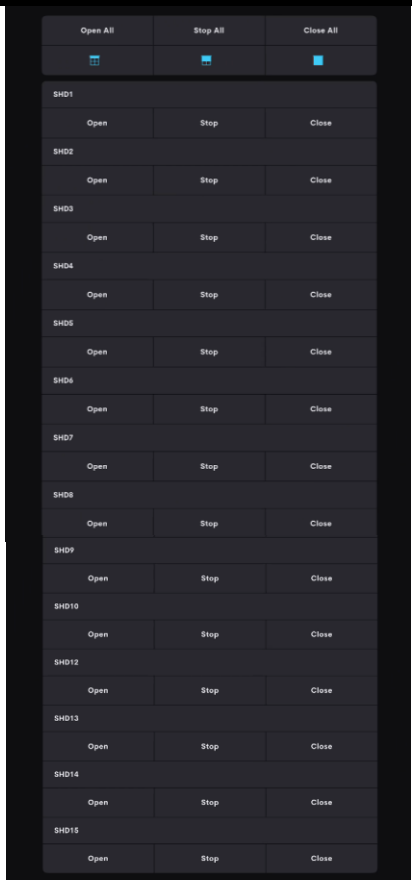
Container Level (0 to 30) Level 0 = Is generic non-contained and Default Level 1 to 30 can be assigned to individual containers.



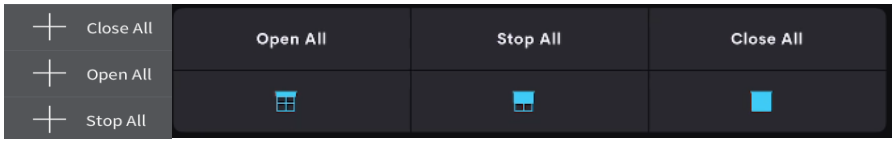
In this example all Shades 1 to 15 have been assigned to a single container. Once a device assigns, the container will be available in managed platforms Managed Platforms

Order can then be applied per shades device, to move devices up and down the container, assigned order is from 1 to 30, 0 by default will be un-ordered 1 will be top, 30 bottom. Example SHD1 = 1 and SHD12 = 12

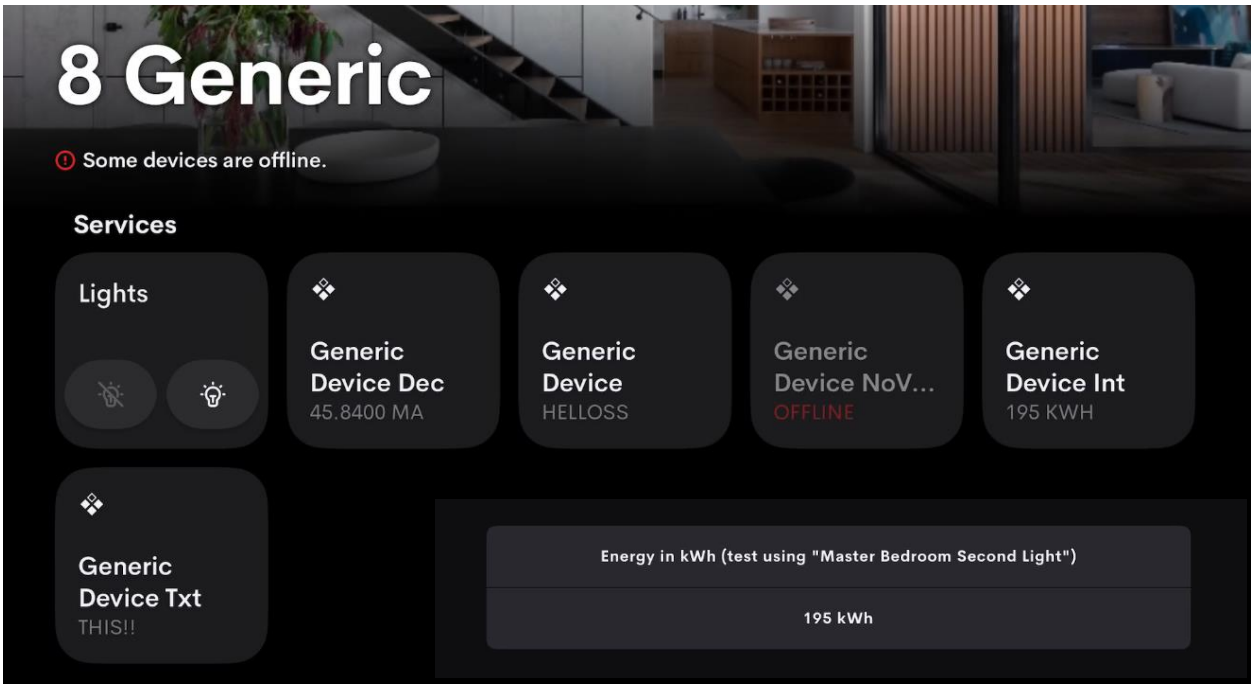




Top Level commands can be used to control all shades in the container using one button.

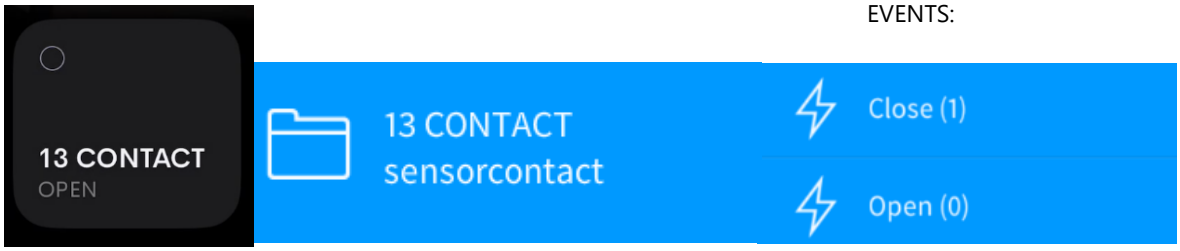


- Generic: Display custom data (UI Only)



- sensorcontact: Contact sensors (e.g., doors, windows) (Events)
- Detects the opening and closing state of doors, windows, or other contact points.
- Useful for security and automation triggers.

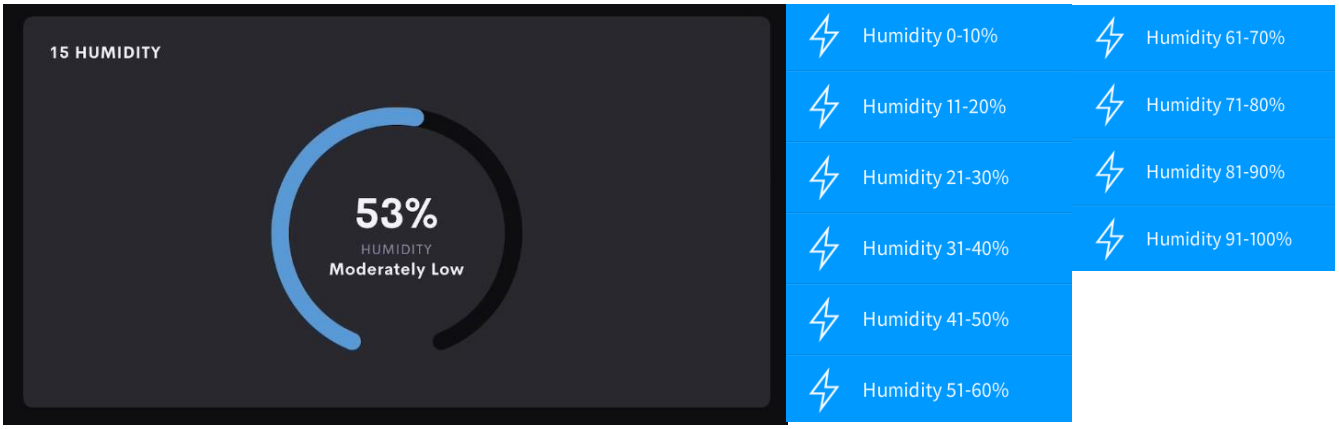
EVENTS:



- sensortemperature: Temperature sensors (Events)
- Monitors ambient temperature.
- Often integrated into HVAC systems or standalone for monitoring purposes.

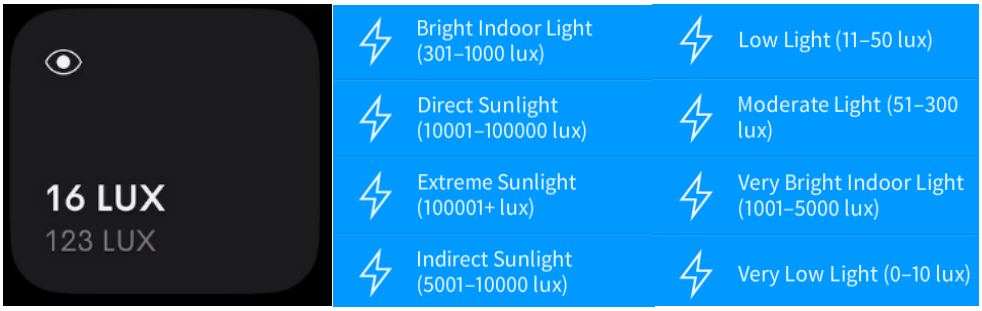
EVENTS:

- sensorhumidity: Humidity sensors (Events)
- Tracks humidity levels in the environment. EVENTS:
- Useful for climate control and air quality monitoring.



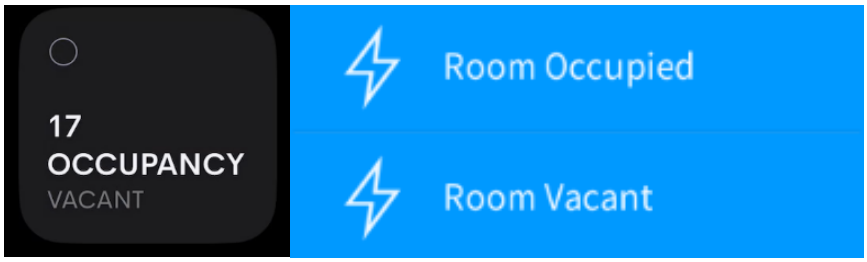
- sensorlight: Ambient light sensors (Events)
- Measures ambient light levels - Automation based on lighting conditions using Lux measurements.

EVENTS:



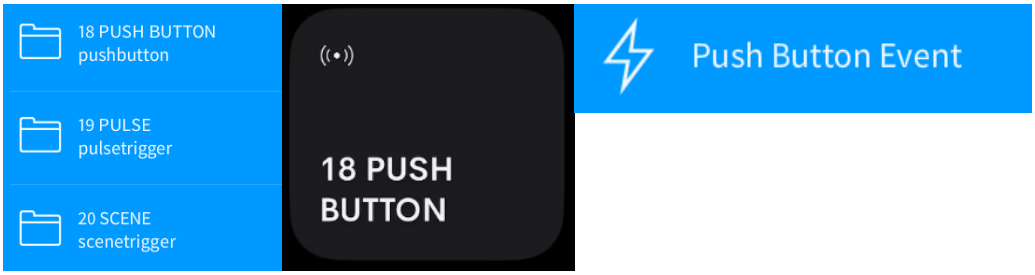
- sensoroccupancy: Occupancy detection (Events)
- Detects motion or presence in a room.
- Useful for security systems and energy-saving automation.

EVENTS:

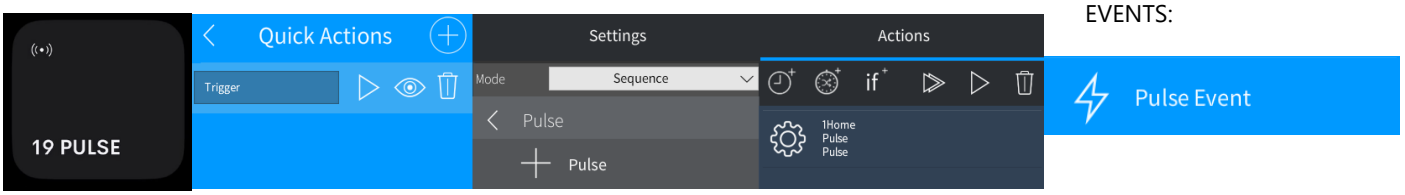


- pushbutton: Generic push-button support (Events Only).
- Provides functionality for manual triggers through virtual buttons. (One Way – 1Home to Crestron)
- This driver does not natively support KNX Keypads to function as a pushbutton device

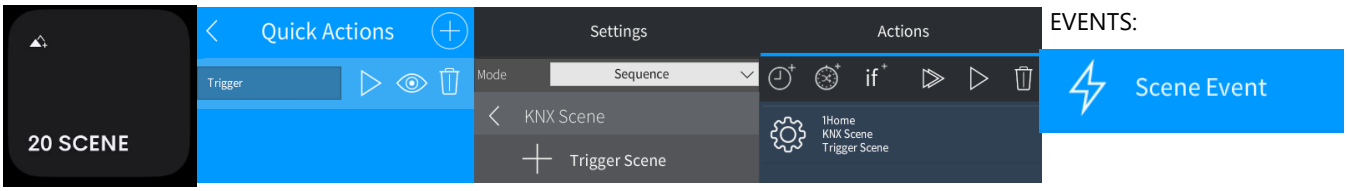
  – KNX Keypads are required to be programmed outside the scope of Crestron, if included using Pushbuttons, feedback status and device functionality will be limited by momentary pulse events only and buttons will not include LED backlight feedback states and states inside CH.



- pulsetrigger: Trigger for specific events (Actions, Events).
- Used to trigger specific events or actions.
- Ideal for momentary actions or temporary states.



- scenetrigger: Scene management and activation (Actions Only).
- Enables activation of predefined scenes or automation routines.
- Useful for quickly setting multiple devices to a desired state.



OS Notes

Latest SDK V25.0000.0033
Latest Driver Version: V25.08.06
Latest 1HOME FW: V4.1.0
Latest OS Version: OS4.006.0173

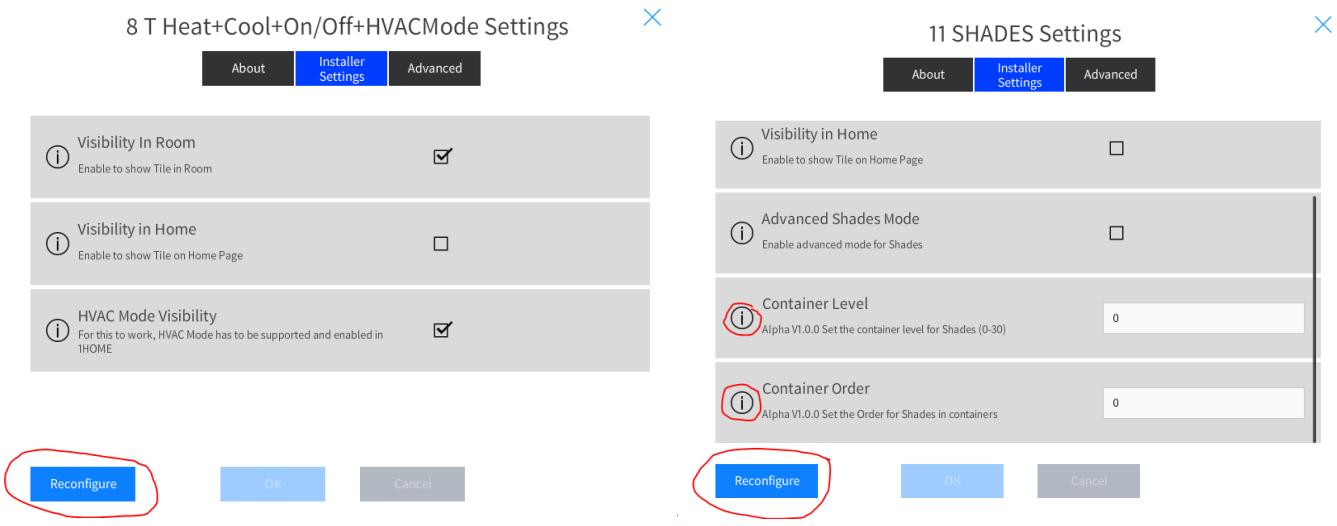
SUPPORT

Please email support with a detailed explanation of the issue, add as much detail as possible when describing the issue, with screenshots, per device and per functionality used on the device when the issue occurs, the information can be sent to either the support groups.

1. **support@1home.io** (For KNX Support and Driver Support)
2. **driversupport@tig.eu** (For internal driver support Crestron Home (DIN-KXI / CI-KNX))

IMPORTANT

1- All upgrades made from older versions to 25.08.06 will require a processor reboot to finalize the upgrade – in addition to this, configured HVAC modes and Shades / Containers will require manual upgrade input – if settings are not visible press the reconfigure button to reload the device to show additional options, this is only required once after the upgrade.



2- This driver does not have native support for KNX Keypads – KNX "Pushbuttons" are required to be programmed outside the scope of Crestron, if included using Pushbuttons, feedback status and device functionality will be limited by momentary pulse only and buttons will not include LED backlight feedback states and states inside CH.

25.03.10

Version: Platform Driver V25.03.10 - 1Home Firmware v3.2.1

- Multi Instance Multi Driver fix, allowing more than one Driver to be loaded for cases multiple 1Home servers would be connected to a single processor, Callback ports will auto increment with required instances allocation per added driver.
- AC Fan speed slider visibility fixes and attributes remapping.
- Auto device discovery and auto rename device

25.04.02

Version: Platform Driver V25.04.02 - 1Home Firmware v3.2.1

- Auto Deletion fix, Devices will now add and remove in complete.
- Startup time for online 70% faster.
- Visibility for Home and Room added for each device
- Added enqueue updates for startup performance on larger devices
- Open, Close and Stop support for Shades devices
- Advance and Basic layout support for Shades

25.04.20

Version: Platform Driver V25.04.20 - 1Home Firmware v3.2.1

- All Native lighting updates to combat edge cases for KNX 0 / 100% value scenarios
- HVAC Modes show and Hide functionality
- Lighting Update for Edge case with Scenes
- Container Update for Reboot States
- Shading Update for Tile Percentage States

25.08.06 – OS4.6

Version: Platform Driver V25.08.06 - 1Home Firmware v4.1.1

- New: AC SupportedFanMode and FanMode new to reflect on UI and added as additional device.
- AC and TH FanPercent has been deprecated.
- New: AC and TH CurrentlyAvailableSystemModes supports edge case and matter scenarios
- New: Generic Device added to support custom readings and UI visual states
- New: Fan Device added to support fan controls from 1Home KNX
- Native lighting Actuator feedback support – in some cases actuators reports values after a delay causing sliders to jump and lighting to flicker, all values are now listed for update after a few seconds to combat erratic feedback behaviour and removes flickering.
- Curtains / Shades now send commands in explicit, adding support to keypad integration.
- Shades containers updated from Beta to Alpha, adding order support and dedicated regeneration "Please note upon update you will need to re-add containers from Managed platform, as the container will appear offline"
- Hot Swappable and Disposal Support ("Please note drivers will not automatically go online after this upgrade, a CH reboot will be required for all states to sync and devices to reload, this adds functionality to all future updates, which allows hot swapping and disposal")
- Driver database "Faster online states and driver sync time, Estimated time 1Min/100 Devices"
- Crestron Home - Matter Device Support for 1HOME SERVER PRO
- Quality Enhancements on Device Feedback and Response in case of actuator delays.
- New: Door lock entity updates to allow for device sounds and notifications settings.
- PlatformManagedDevice SDK Framework upgrade for structure, rename, add, remove and model support for faster deployment.

1Home device type
Light: On/Off
Light: Dimming
Light: Color Temperature
Light: Color
Thermostat
Socket: On/Off
Window Covering
Door Lock
Push Button
Sensor: Contact
Sensor: Temperature
Sensor: Light
Sensor: Occupancy
Sensor: Humidity
Air Conditioner
KNX Scene
Pulse
Garage Door