

ECOWITT SERVICE TILE FOR CRESTRON HOME

Revision: 1.0

Date: 18 August 2026

SUPPORTED INSTALLATION

This is a Crestron Home driver for Crestron Home processors.

DESCRIPTION

The Ecowitt Service Tile driver is designed to display weather data from an Ecowitt-compatible weather station using the Ecowitt Cloud API.

The driver retrieves telemetry data from the Ecowitt service and presents it within the Crestron Home Client, allowing users to view a range of live environmental readings and station data reported by their weather station. This includes values such as temperature, pressure, rainfall, UV index, and wind conditions.

In addition to displaying weather data, the driver supports configurable notifications for selected telemetry values. This functionality requires the Ultamation Notice Tile, which is a separate product that can be purchased from the shop page. When integrated, the installer can set user-defined thresholds, and when a condition is met, notifications can be delivered to the Crestron Home client app or sent as mobile push notifications. Notifications include a custom title, message, and priority level via the Ultamation Notice Tile.

If the Ultamation Notice Tile is not installed, notification functionality will not be available.

Features include:

- Displaying weather data from an Ecowitt-compatible device
- Providing up-to-date readings such as temperature, pressure, rain rate, rainfall, UV, and 'feels like' temperature, updated every five minutes
- Displaying wind information including wind speed, wind gust, and wind direction
- Installer-defined thresholds for telemetry-based alerts when used with the **Ultamation Notice Tile**

INSTALLATION

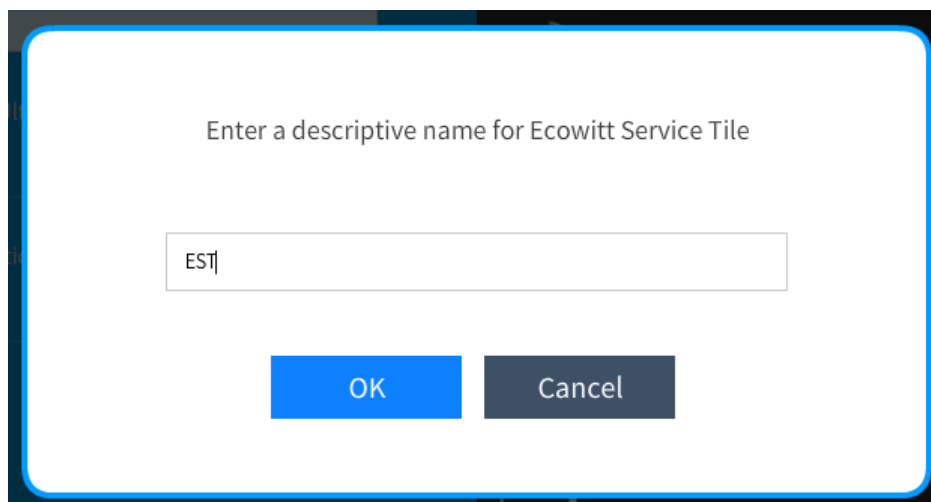
The driver can be found under:

Drivers > Weather Station > Ultamation > **Ecowitt Service Tile**

Adding the Driver

Ensure a room is selected, and then click on the '+' against the appropriate device.

You will be asked to provide a descriptive name – this can be anything you wish.



Enter a descriptive name for Ecowitt Service Tile

EST1

OK Cancel

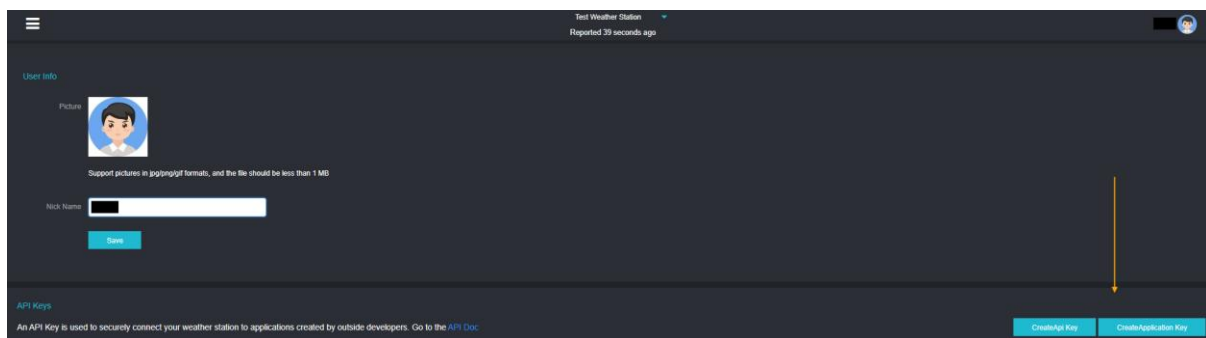
The driver is licenced via the cloud, please first refer to the "Licensing" section below. If you do not have a cloud licence the system will function for **one hour** and then control will be suspended.



	Ecowitt API Key
Your Ecowitt API Key, found in your Ecowitt account under User Profile.	
	Application Key
Your Ecowitt Application Key, found in your Ecowitt account under User Profile.	
	Device MAC Address
The MAC address of the Ecowitt weather station gateway device (e.g. GW1000, GW2000). Found on the device label or in the Ecowitt app.	

For the installation of the driver, you will need three details. To get the **API** and **Application Keys**, you'll need to head to Ecowitt Weather (first link after searching Ecowitt.net) and sign in. Upon signing in and viewing your weather station telemetry, look at the top right corner, click on your icon then select "User Profile".

You will then be greeted with this screen where you can generate the two API keys.



The **device MAC address** can be discovered by following the device manual or in some cases, on the weather station itself.

	Temperature In Degrees Celsius
Check to display temperature in Degrees Celsius, otherwise shown in Fahrenheit.	☐

	Wind In MPH
Check to display wind speed in MPH, otherwise shown in KPH.	☐

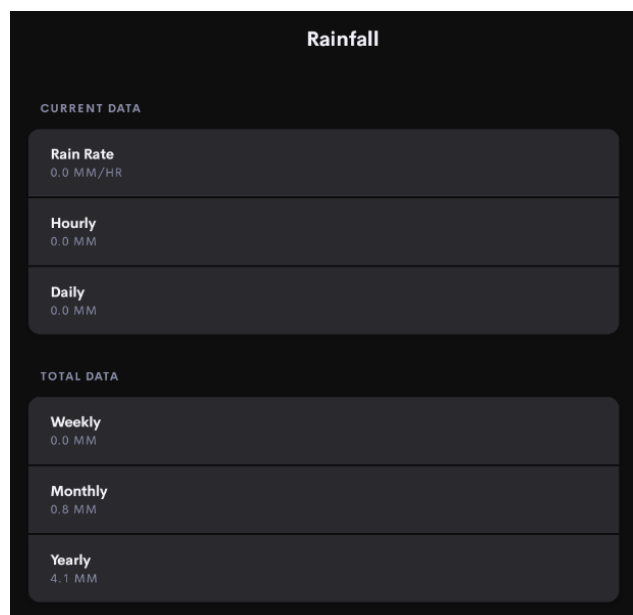
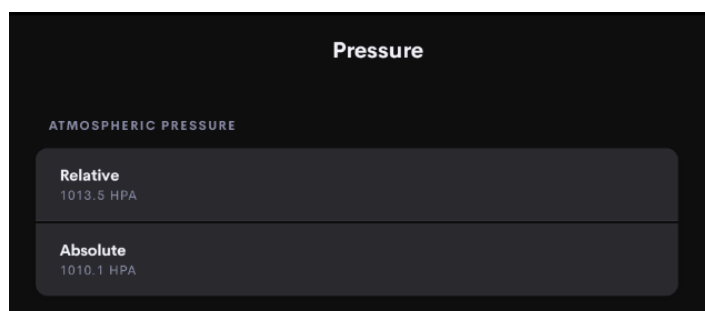
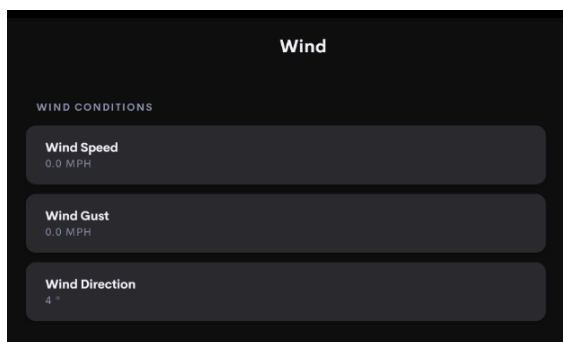
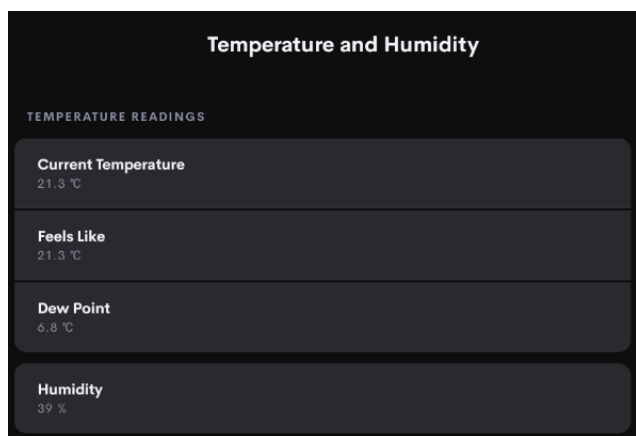
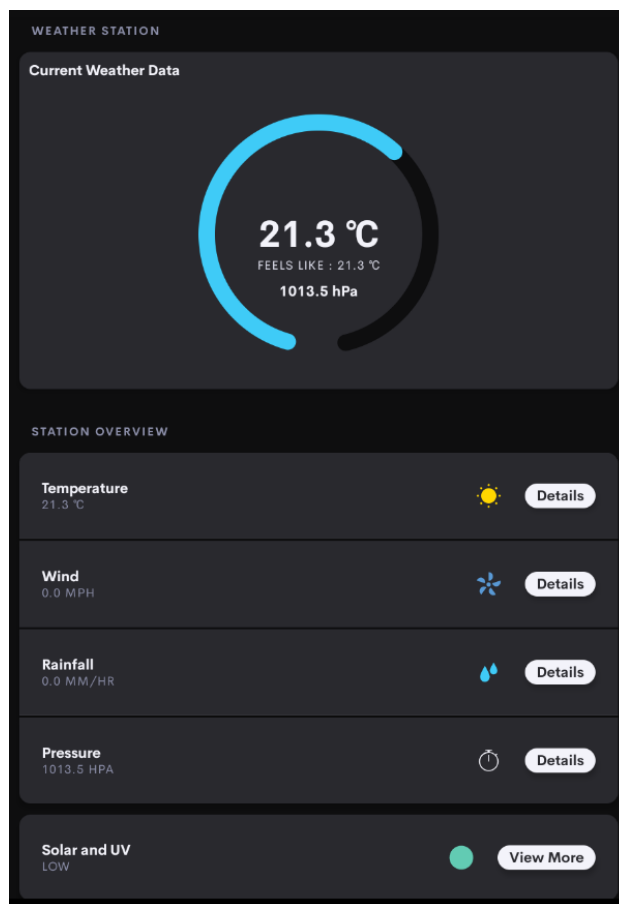
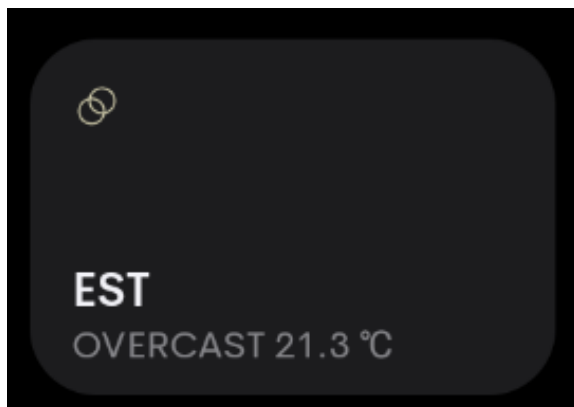
The above settings allow you to change the temperature units and the wind speed units.

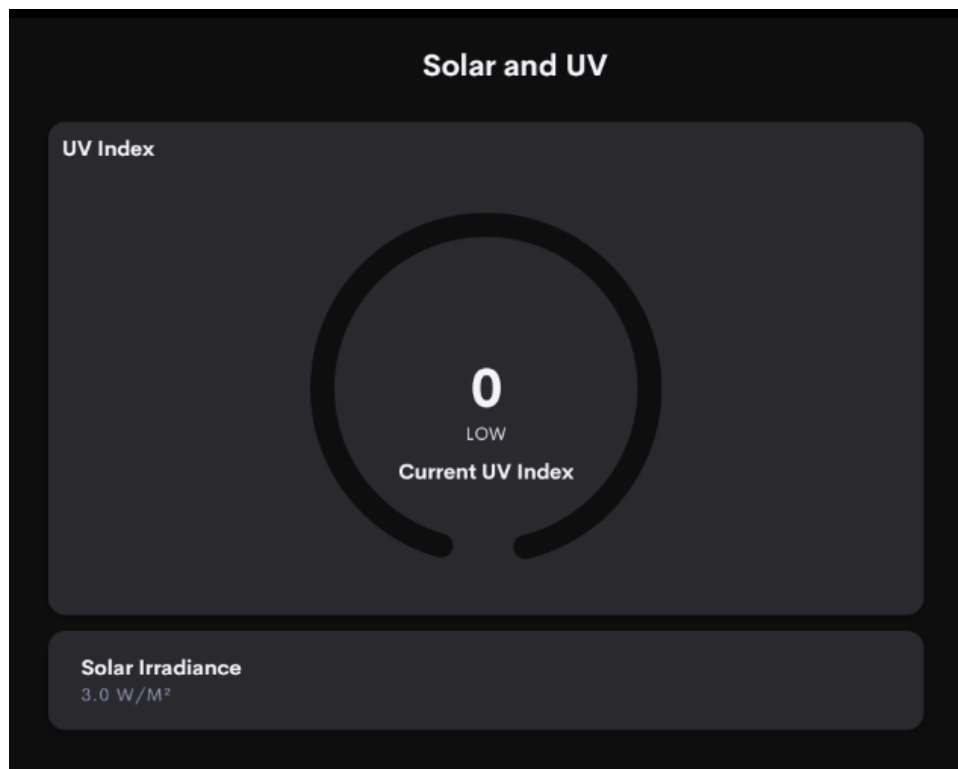
	Show in Room Page	
Check to make the tile visible on the room page.		☐
	Show in Home Page	
Check to make the tile visible on the home page.		☒
	Show Condition Icons	
Check to display weather condition icons.		☒
	Show Temperature on Tile	
Check to display the current temperature alongside the weather condition on the tile.		☒

The next page of the installation presents preferences for how and where you want the tile to appear.

After configuration

Once the Ecowitt Service Tile has been set up, current weather conditions and forecast are displayed. Below is an example of a loaded tile:

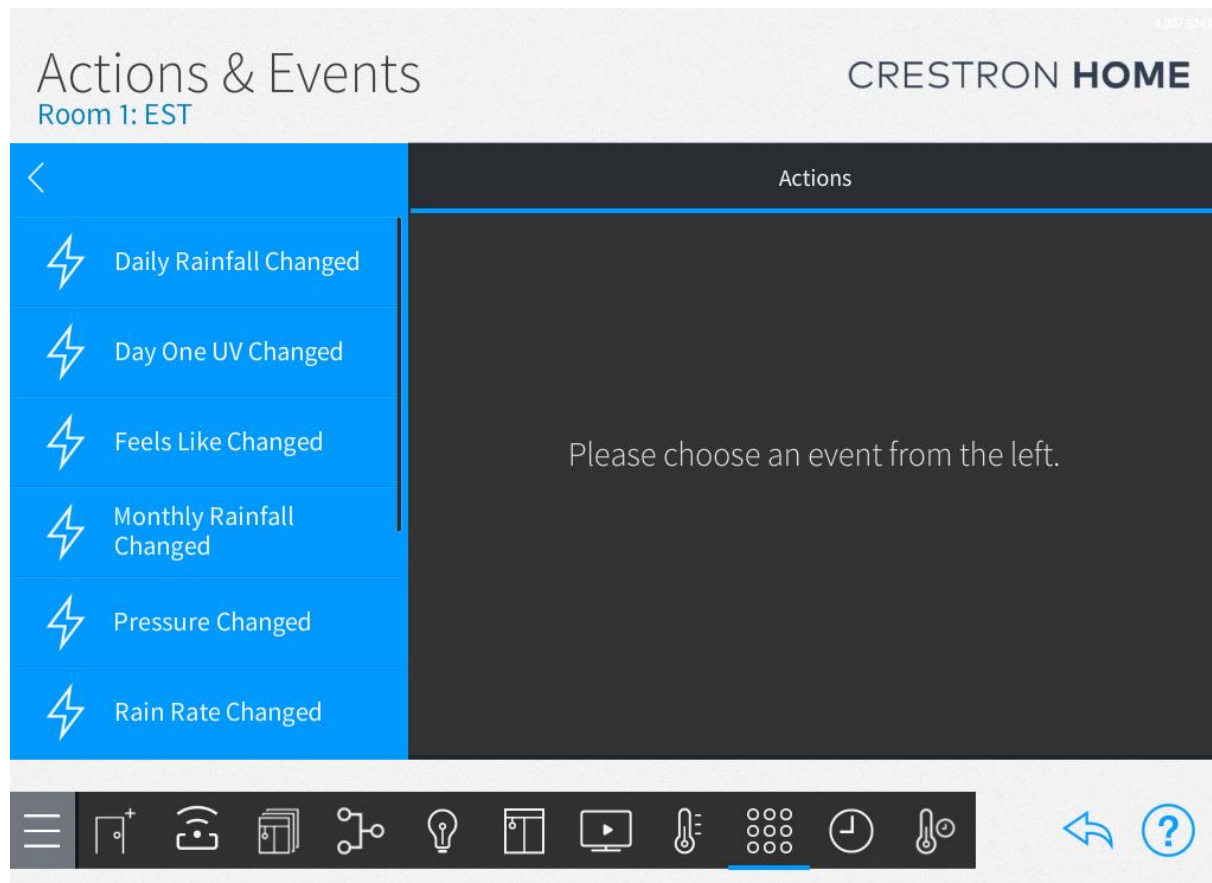




EXPOSED PROPERTIES

When the driver has been loaded, these properties become exposed and allow for logic to be applied on them.

You can find them by clicking into Actions & Events, clicking into the room with the driver and choosing the Ecowitt Service Tile folder.



The properties that are exposed are:

- Rain Rate
- Daily Rainfall
- Monthly Rainfall
- Wind Speed
- Wind Direction
- Wind Gust
- Day One UV
- Temperature
- Feels Like
- Pressure

Please note that you might not have all these properties if you don't have an official Ecowitt Weather Station.

An example of using these exposed properties can be seen below.

THRESHOLD NOTIFICATIONS WITH THE NOTICE TILE

The driver notifications are generated based on changes in the weather station telemetry, with messages sent from the **Ultamation Notice Tile** (which can be found on the Ultamation Shop Front). If configured, notifications can also be delivered as mobile push notifications through **Pushover**. If you do not own or wish to use the Notice Tile integration, you can skip this section.

For example, a temperature threshold of 30°C may be configured. If the weather station reports a value exceeding this threshold, the driver will generate a notification via the Notice Tile **at five-minute intervals**.

The general message schema for notice messages is as follows:

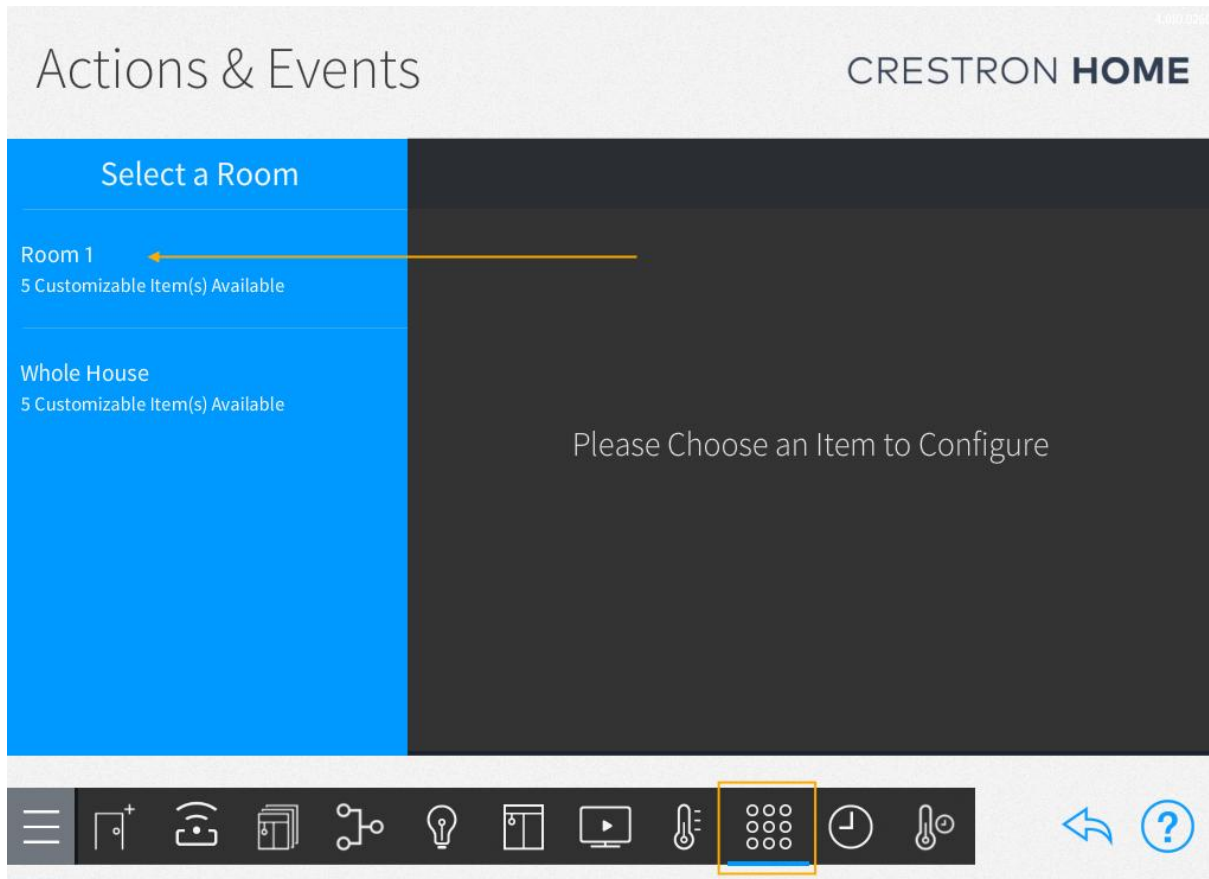
Field	Description	Requirement
Title	Title of the notice	1-30 characters
Message	Main body of the notice	1-60 characters
Priority	To determine importance	Low/Medium/High

For more information refer to the Notice Tile help file for more information on how the Notice Tile is setup and its capabilities.

Installation

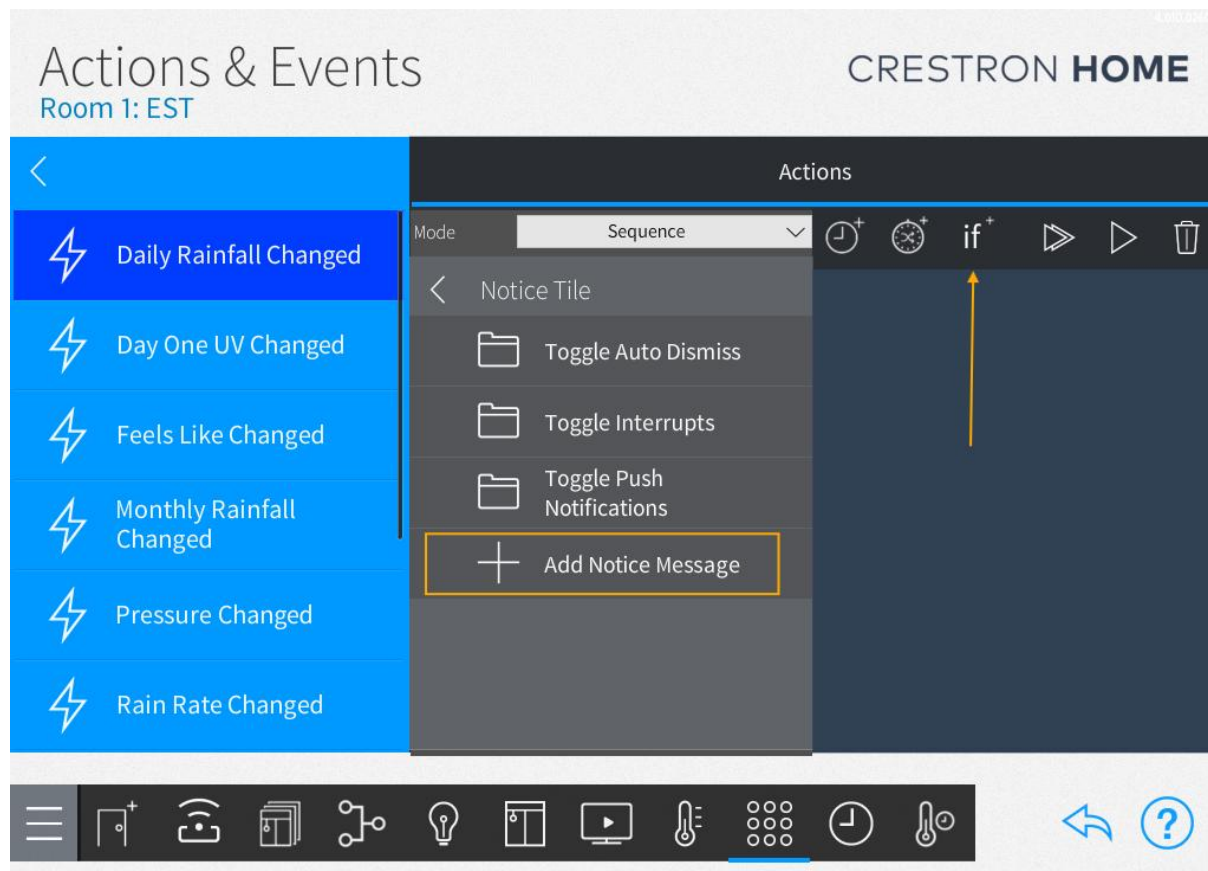
Before proceeding, the Notice Tile must be installed on the same processor.

Once the driver and the Notice Tile are loaded, navigate to **Actions & Events** and select the room containing the driver.



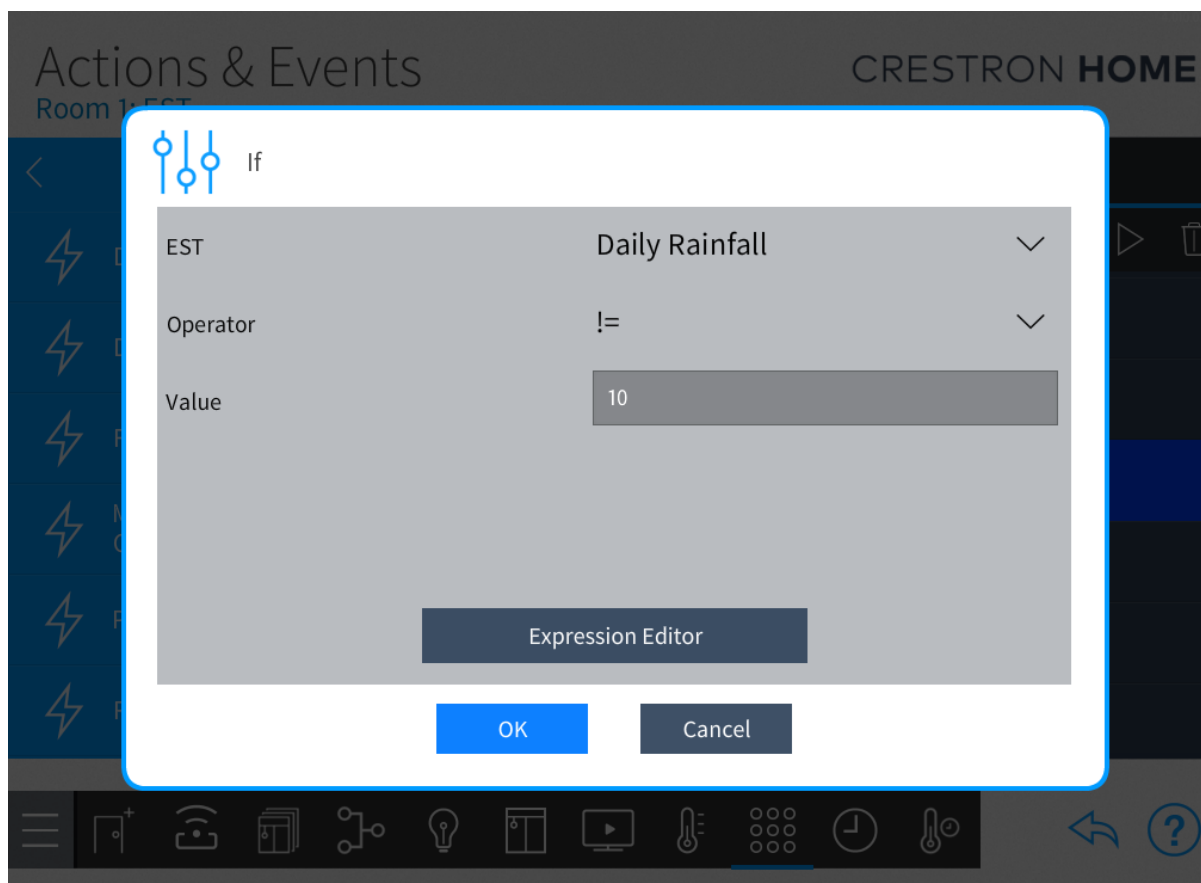
Within the driver folder, the available telemetry values for threshold configuration will be displayed.

Selecting one of the property changes reveals the actions menu. From here click Mode > Sequence, then select the room and driver folder with the Notice Tile to access the Notice Message.

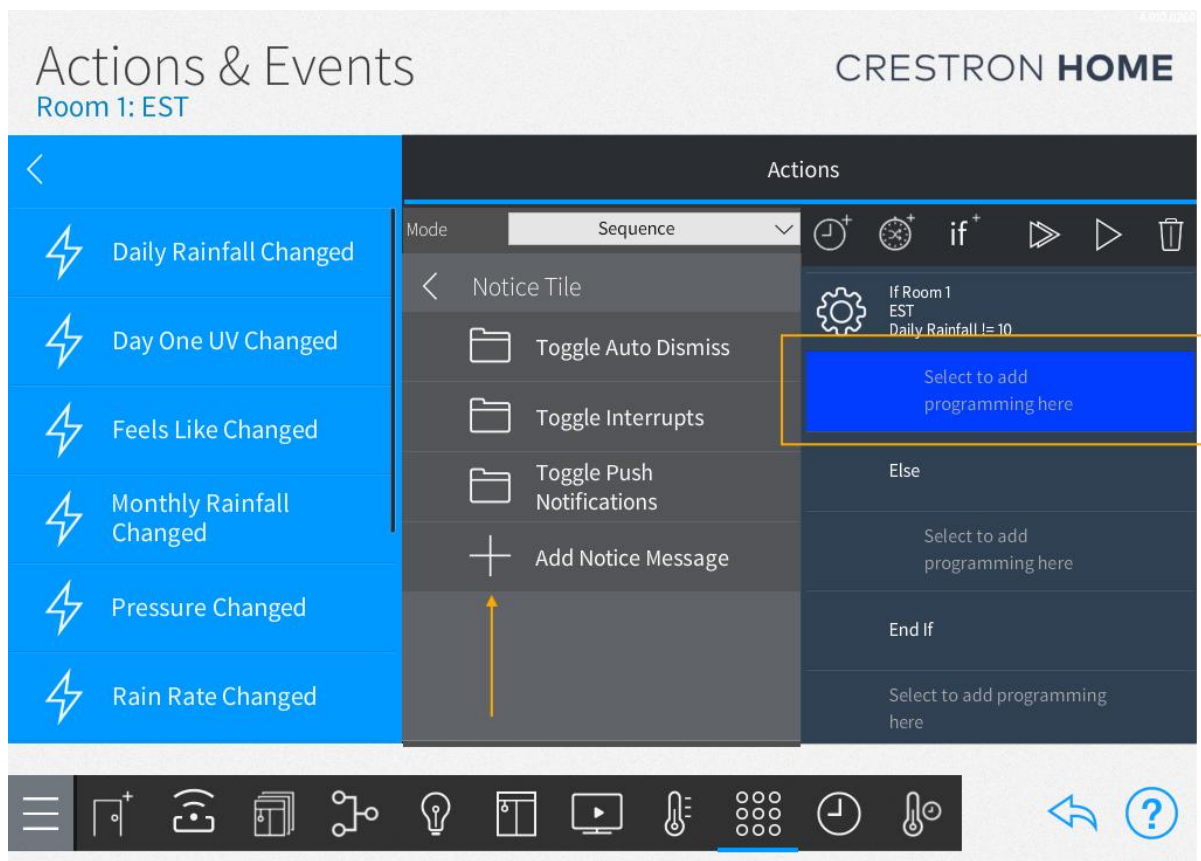


This is where notification logic can be configured.

Selecting the **if** condition provides access to the available telemetry properties for logic configuration. For example, selecting Daily Rainfall allows conditions to be defined based on that value.



After confirming the condition, add the "Notice Message" action to the if statement.

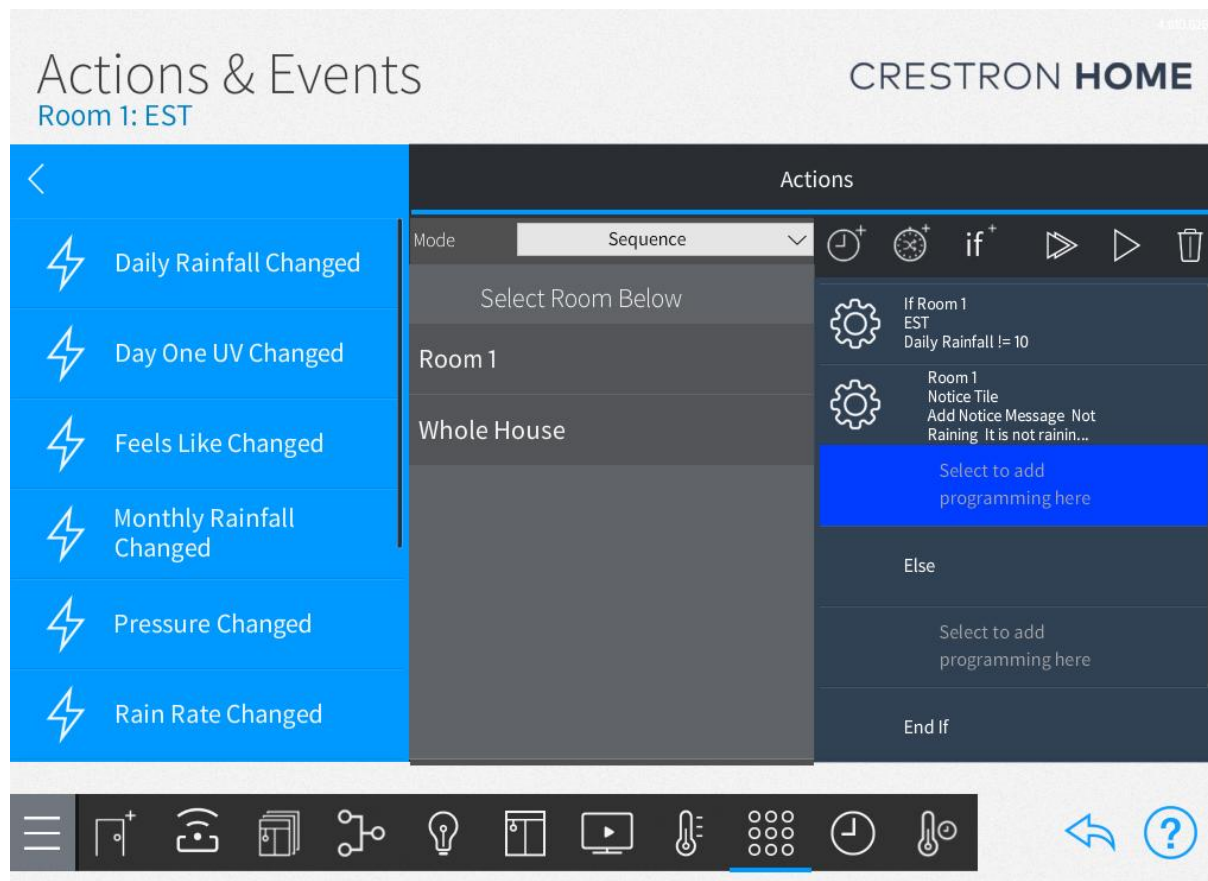


The screenshot shows the 'Add Notice Message' dialog box within the 'Actions & Events' section of the 'CRESTRON HOME' interface. The dialog is titled 'Add Notice Message' and contains the following fields and options:

- Title (1-30 chars):** Not Raining
- Message (1-60 chars):** It is not raining
- Priority:** Medium (with a dropdown arrow)
- Time-to-Live (m):** 0
- Sensitive (PIN to dismiss):** ☐

At the bottom of the dialog are two buttons: 'OK' (highlighted in blue) and 'Cancel'.

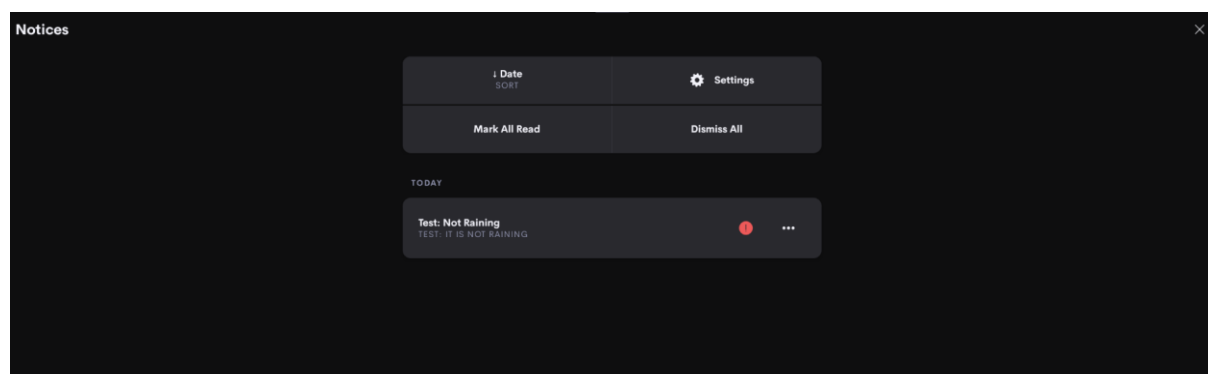
The notification can then be configured with a Priority, Title, and Message.



The polling rate is **five minutes** meaning notifications will also be coming through every five minutes. For example, a condition such as Daily Rainfall $\neq 10$ will trigger a notification whenever the condition is met. Further logic can be added with custom variables created in Crestron Home.

More advanced alert logic can be implemented with the additional operators "=", " $\neq$ ", "<", "<=", ">", ">=".

This is how configured messages will appear within your Notice Tile.



Please note, both temperature and wind speed units are defined during the driver installation. This means your defined thresholds for property change logic in your Notice tile messages must also be adjusted.

SUPPORT

If you have any issues with an integration solution please let us know by contacting Ultamation support on support@ultamation.com and please include as much detail about your issue as possible, such as a recent processor error log.

Licence verification messages are posted to the error log, so please ensure you have checked this.

LICENCING

This integration solution (including software, images and all other associated assets distributed as part of the purchased download package) is licenced on a PER PROCESSOR basis.

A purchase should not be completed without correct information as refunds cannot be issued for errors or changes made to details following purchase.

This is an electronic product and there is no physical delivery.

The integration solution is provided without any warranty with respect to the reliability of the controlled device or changes to device protocol. We will endeavour, through best efforts, to maintain the integration solution's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this integration solution and this will be a separate, purchasable, product.

CLOUD LICENCE

This integration solution contacts Ultamation's licencing server at startup. If the server finds a matching licence for the integration solution and processor then the integration solution will be licenced. Otherwise, the integration solution will check the offline licence key. If you purchase a licence **after** you have loaded the integration solution, please reboot the system to see changes take effect.

If you purchased a licence **before** it was migrated to the cloud service, i.e. you have a licence key already, you must enter this into the **Offline Key** user attribute. If you purchased the integration solution **after** it was migrated, and you don't have a licence key, no further action is required.

If no licence exists for the product/processor the integration solution will enter a short trial period (ONE HOUR) to allow for verification of correct control or evaluation.

To request an OFFLINE key, please contact support@ultamation.com with your order details and a brief explanation why you REQUIRE offline activation. Ultamation reserve the right to refuse offline activation.

NOTE: Once an offline key has been issued no further licence changes will be granted. Moving the integration solution to a new processor will require an additional licence purchase.