



Nest Learning Thermostat Integration Release Notes

Content

- Introduction...1
- Supported features...2
- Installing the Nest thermostat...3
- Connecting the Nest thermostat to ClareHome...3
- Configuring Nest in the apps...3
- Creating Notifications with Nest...8
- Creating Scenes with Nest...10
- Creating a Schedule with Nest...13
- Creating an Automation with Nest...16
- Device and structure limits...19
- Contact information...19

Last modified: 05/03/18

Introduction

The Nest thermostat is a smart thermostat. It has been tested and certified for integration with the ClareHome system.

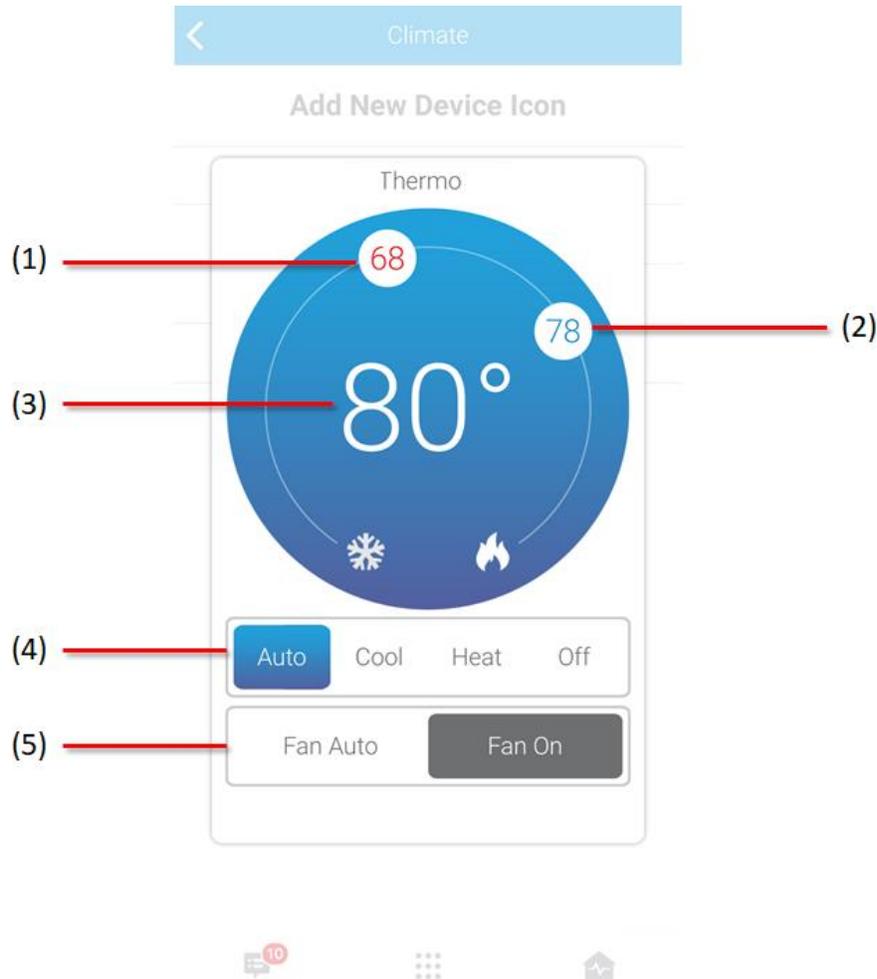
By integrating the Nest thermostat to a ClareHome control system, your customers can send commands to the thermostat to change modes, cool and heat settings, and fan status from their mobile iOS devices or Android smartphones. To adjust temperature settings, they can simply turn the scroll wheel to the right or left on their ClareHome display.

When integrating the Nest thermostat into your ClareHome project, no wires or extra connection is necessary. Install the thermostat normally and connect it directly to Wi-Fi on the home network according to the instructions provided with the Nest thermostat.

The Nest thermostat integrates with the ClareHome system in a way similar to the existing HVAC integrations. All HVAC integrations share a common UI, so that the user experience is consistent.

The following figure shows the Nest controls on the ClareHome UI.

Figure 1: Temperature mode showing temperature set points



- (1) Change the Heat set point by sliding the indicator around the dial.
- (2) Change the Cool set point by sliding the indicator around the dial.
- (3) Temperature setting displays on the ClareHome UI in Fahrenheit.
- (4) Change the Operation mode using the slider control.
- (5) Change the Fan mode using the slider control.

Supported features

The Nest Learning Thermostat supports the following features.

- Nest can display temperature readings in both Fahrenheit and Celsius.
- Real time status support for Auto-away mode.

Note: Auto-away mode cannot be set, it occurs when the device has not sensed movement for an extended period of time.

Installing the Nest thermostat

A qualified installation technician should install the Nest thermostat. Refer to the Nest installation interactive page available at <https://nest.com/works>. Use this information to verify that Nest is compatible with your HVAC system. You will also receive custom wiring instructions when you reach the end of the interactive page.

Note: Know that the name entered upon installation is the permanent name of the device. The same name is required in Fusion and it is case sensitive.

There is no need for any adapters or extra wiring. The Nest thermostat connects using the home's Wi-Fi network. The ClareHome Host controller communicates with the Nest thermostat via the Nest presence in "the cloud". In order to control the Nest, the ClareHome Host must have an Access Token, as described below.

Connecting the Nest thermostat to ClareHome

Use the Nest app, available in the iOS App Store and Google Play Store. Once the app is installed, follow the displayed on-screen instructions for thermostat and account setup.

Configuring Nest in the apps

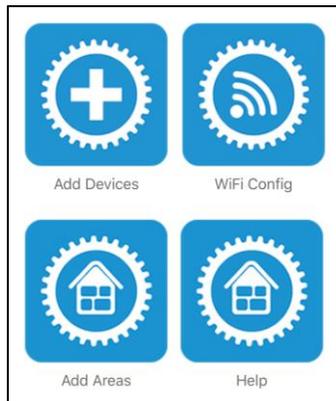
Once you have installed and setup the thermostat using the NESTA, add and configure it with the ClareHome app.

Notes

- The Nest thermostats can be added using the Install Assist app.
- An internet connection is required when adding a Nest device. It cannot be added when the CLIQ.mini is in AP mode.
- You will need the **homeowner's** Nest account credentials.
- The Nest Learning thermostats must be configured on the Nest website before they can be added to ClareHome.

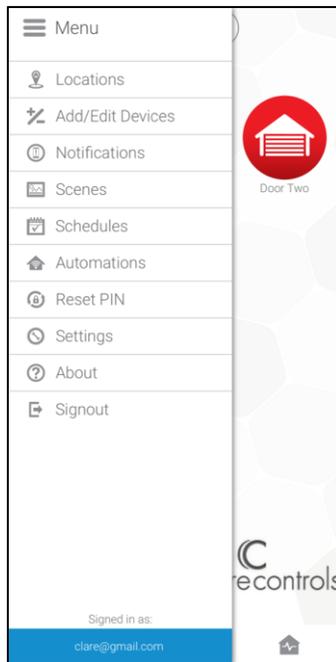
To add a Nest device using the Install Assist or ClareHome app:

1. Access the Clare Controls Install Assist app, and then tap **Add/Configure Devices**.

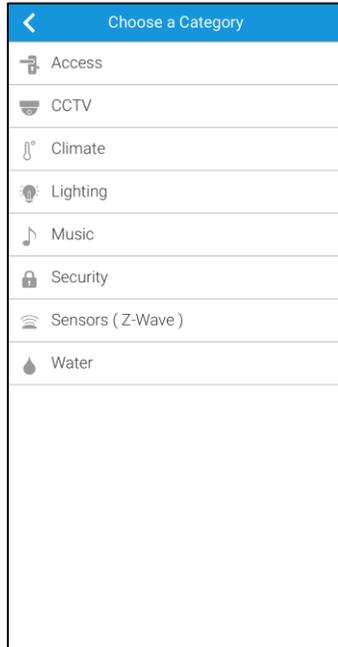


– or –

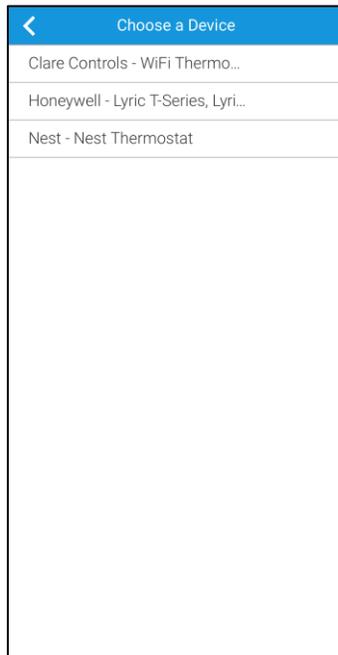
Access the ClareHome app's Mega Menu, and then tap **Add/Edit Devices**.



2. Tap the **Plus** icon  to add a new device, and then tap **Climate**.



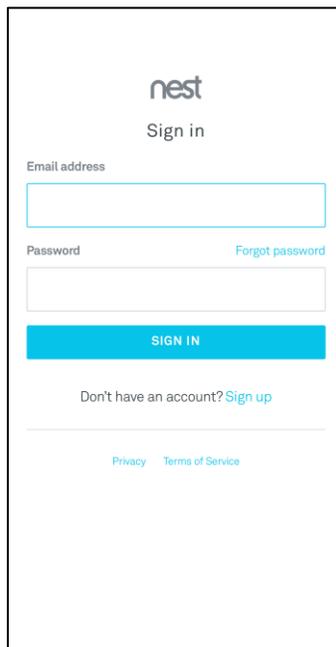
3. Tap **Nest – Nest Thermostat**.



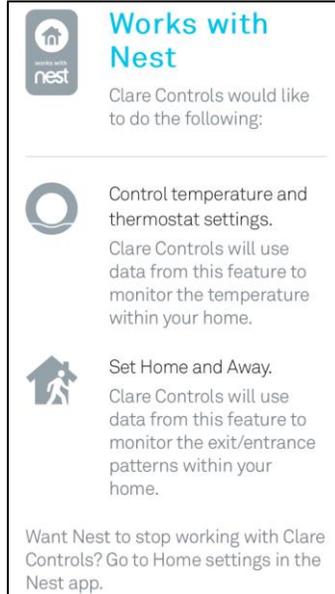
4. Read the displayed Device Authorization message, and then tap **Authorize Device**.



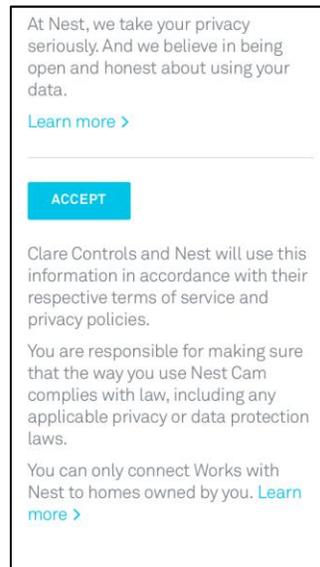
The Nest Login page displays.



5. Login with the credentials created using the Nest app.
You are prompted to authorize ClareHome to access the Nest thermostat.



6. Scroll down and then tap **Accept**.
Note: Each device on the Nest account is added to ClareHome when Nest allows access.



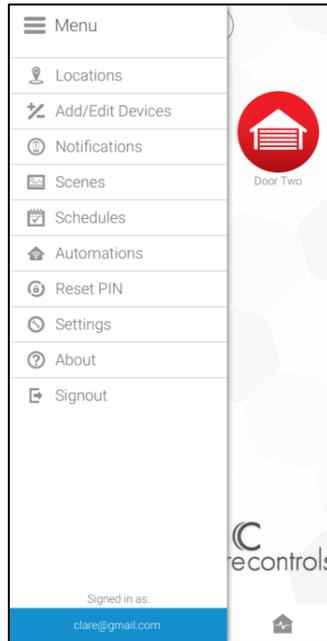
Once the devices are authorized, a success message displays.
The thermostat is now accessible in the ClareHome app.

Creating Notifications with Nest

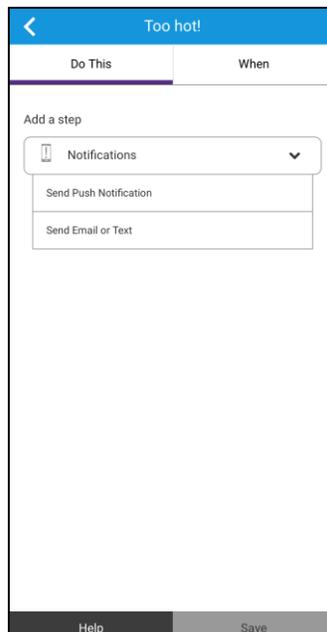
Create a notification using your Nest thermostat. The example below walks through creating a warning notification, sending a push notification to the user when the temperature reaches above 80°F in their home.

To create a warning notification:

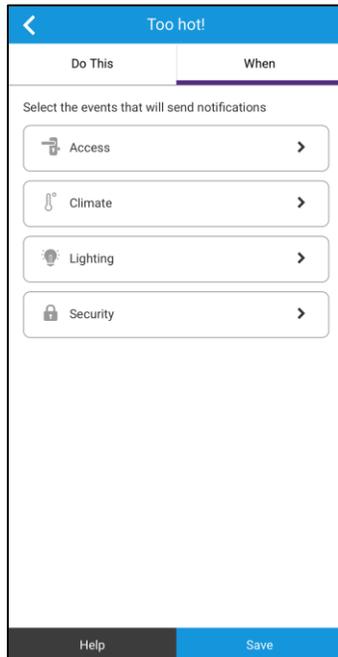
1. Access the ClareHome app's Mega Menu, and then tap **Notifications**.



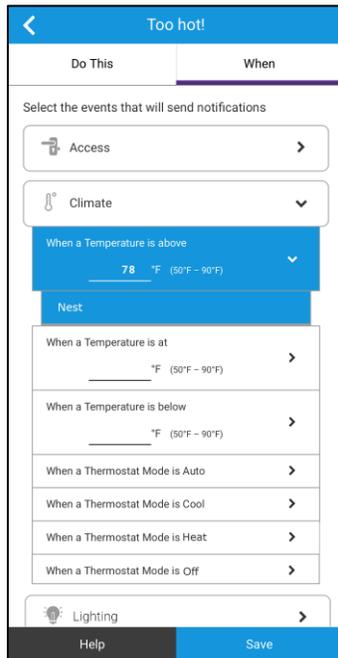
2. Tap the **Plus** icon  to add a new notification.
3. Enter a name for the notification, and then tap **Notification**.



4. Select Send Push Notification, and then tap **When**.

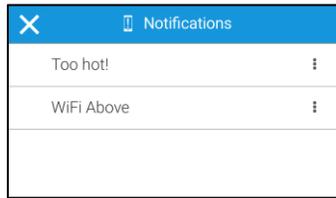


5. Select Climate, enter the temperature at which the alarm triggers, and then select the Nest thermostat.



6. Tap **Save**.

The Notification is now available in the Notifications list.

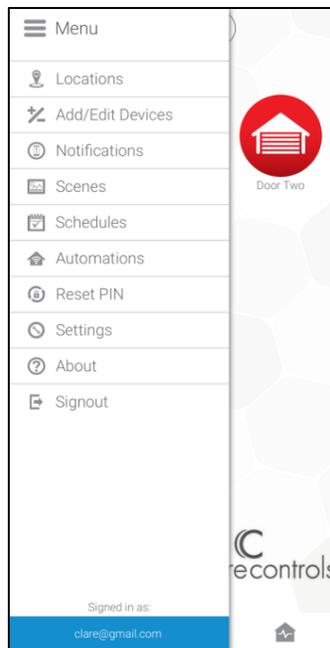


Creating Scenes with Nest

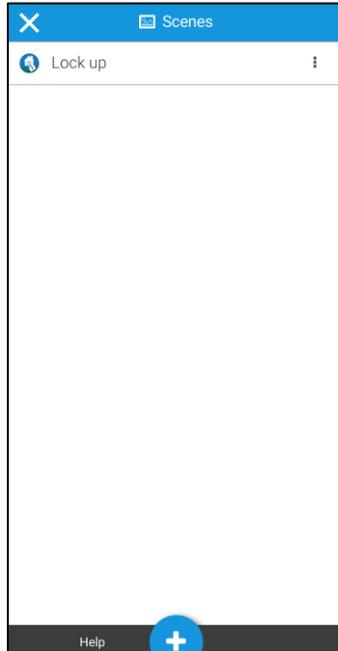
Configure a Scene with your thermostat. The example below walks through creating a cool down Scene, changing the thermostat mode to cool when the button is tapped.

To create a cool down Scene:

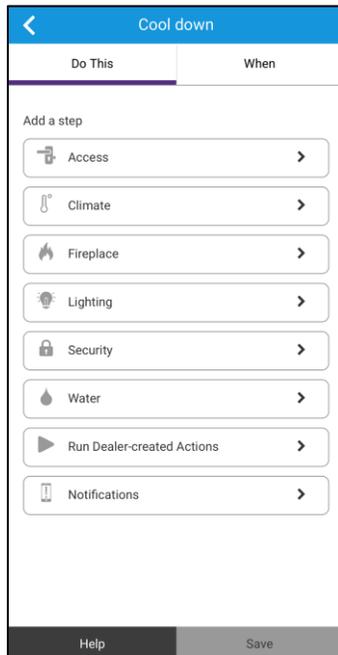
1. Access the ClareHome app's Mega Menu, and then tap **Scenes**.



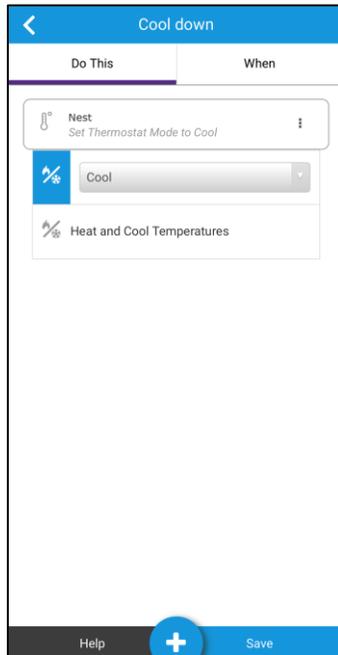
2. Tap the **Plus** icon  to add a new Scene.



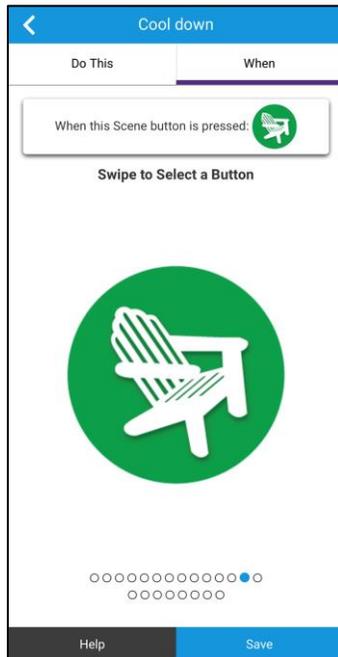
3. Enter a name for the Scene, and then tap **Climate**.



4. Select the thermostat and mode.

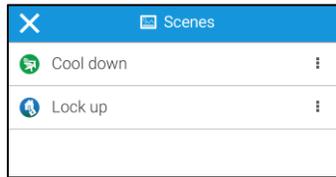


5. Tap the **When** tab, and swipe the screen left or right to select the desired icon.



6. Tap **Save**.

The Scene is now accessible in Scenes list.

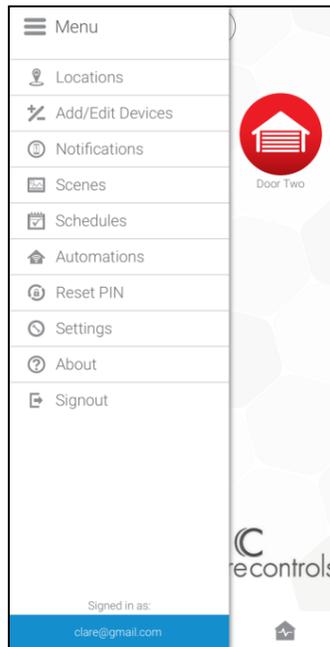


Creating a Schedule with Nest

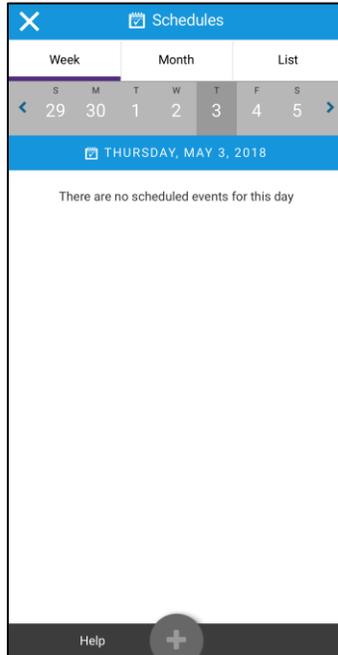
Set a Schedule for your thermostat. The example below walks through creating an evening cool down Schedule, lowering the cool setpoint at 8 pm Monday through Friday.

To create a lock up Schedule:

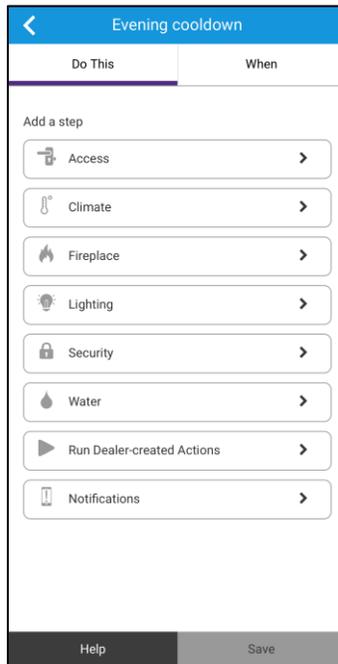
1. Access the ClareHome app's Mega Menu, and then tap **Schedules**.



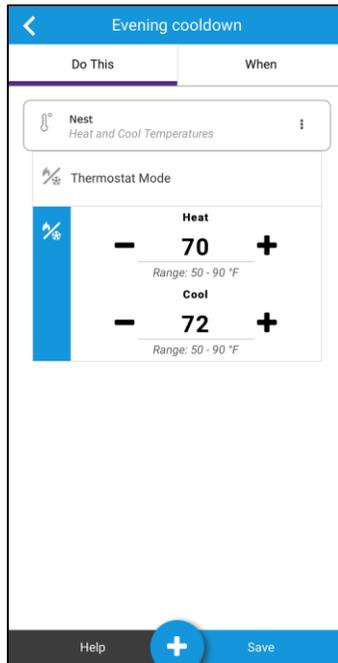
2. Tap the **Plus** icon  to add a new schedule.



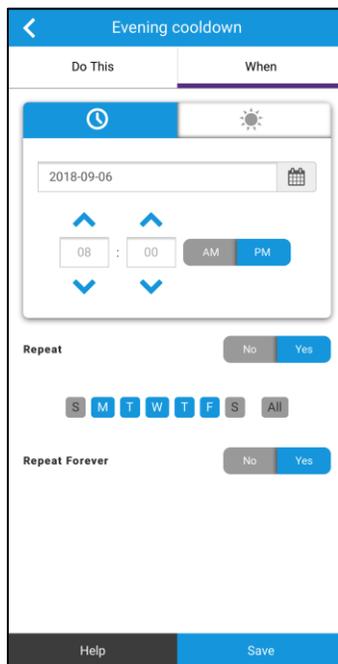
3. Enter a name for the schedule, and then tap **Climate**.



4. Select thermostat, and then tap adjust the cool setpoint.

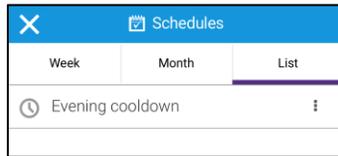


5. Tap the **When** tab.
6. Select the start date, time, and if the Schedule repeats.



7. Tap **Save**.

The Schedule is now displayed in the Schedule List.

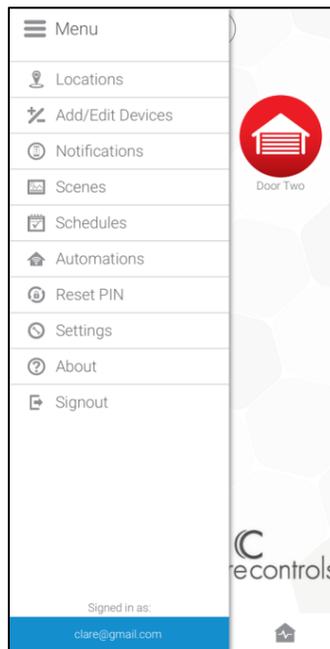


Creating an Automation with Nest

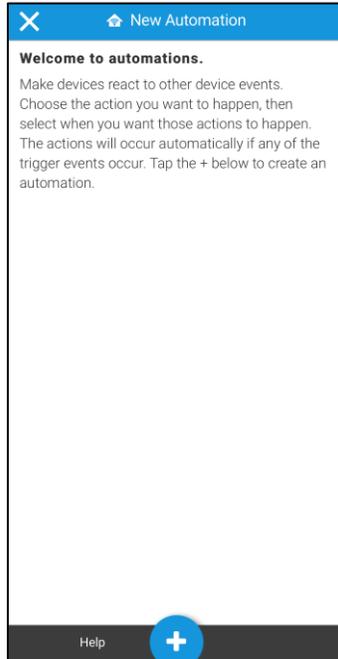
Create an Automation for your thermostat. The example below walks through creating a power saving automation, raising the cool setpoint when the alarm is set.

To create a power saving automation:

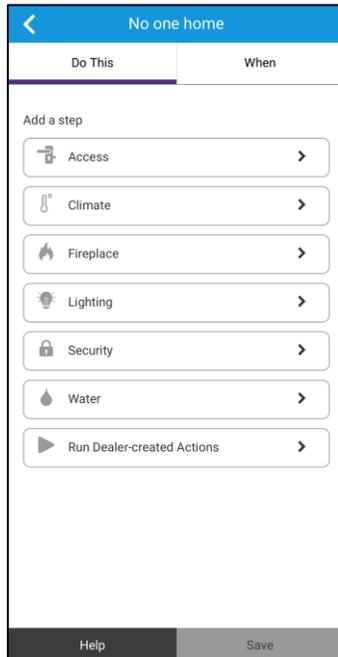
1. Access the ClareHome app's Mega Menu, and then tap **Automations**.



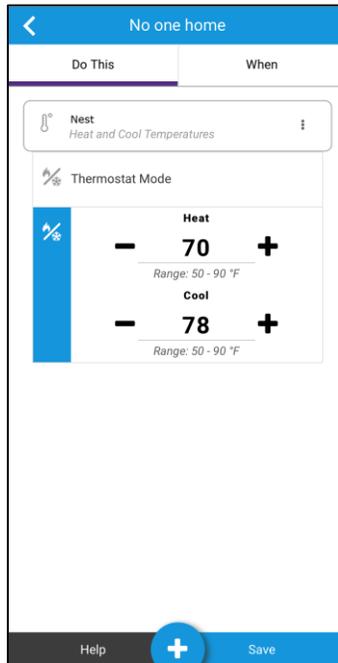
2. Tap the **Plus** icon  to add a new Automation.



3. Enter a name for the automation, and then tap **Climate**.

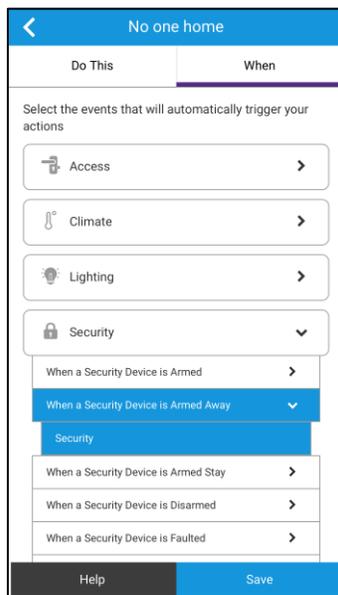


4. Select the thermostat and set the cool setpoint.



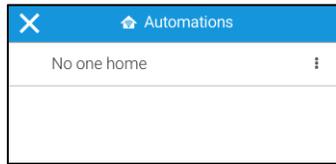
5. Tap the **When** tab, and then tap **Security**.

6. Select When an Alarm is Armed and the security device.



7. Tap **Save**.

The automation is now displayed in the Automations List.



Device and structure limits

Every change requires the device to wake up and synchronize its state. This can impact performance and battery life of the thermostat. Nest limits the number of device changes that third-party users can make. Detailed information on this issue can be found at the following web address:

<https://developer.nest.com/documentation/data-rate-limits>

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