Quick Start

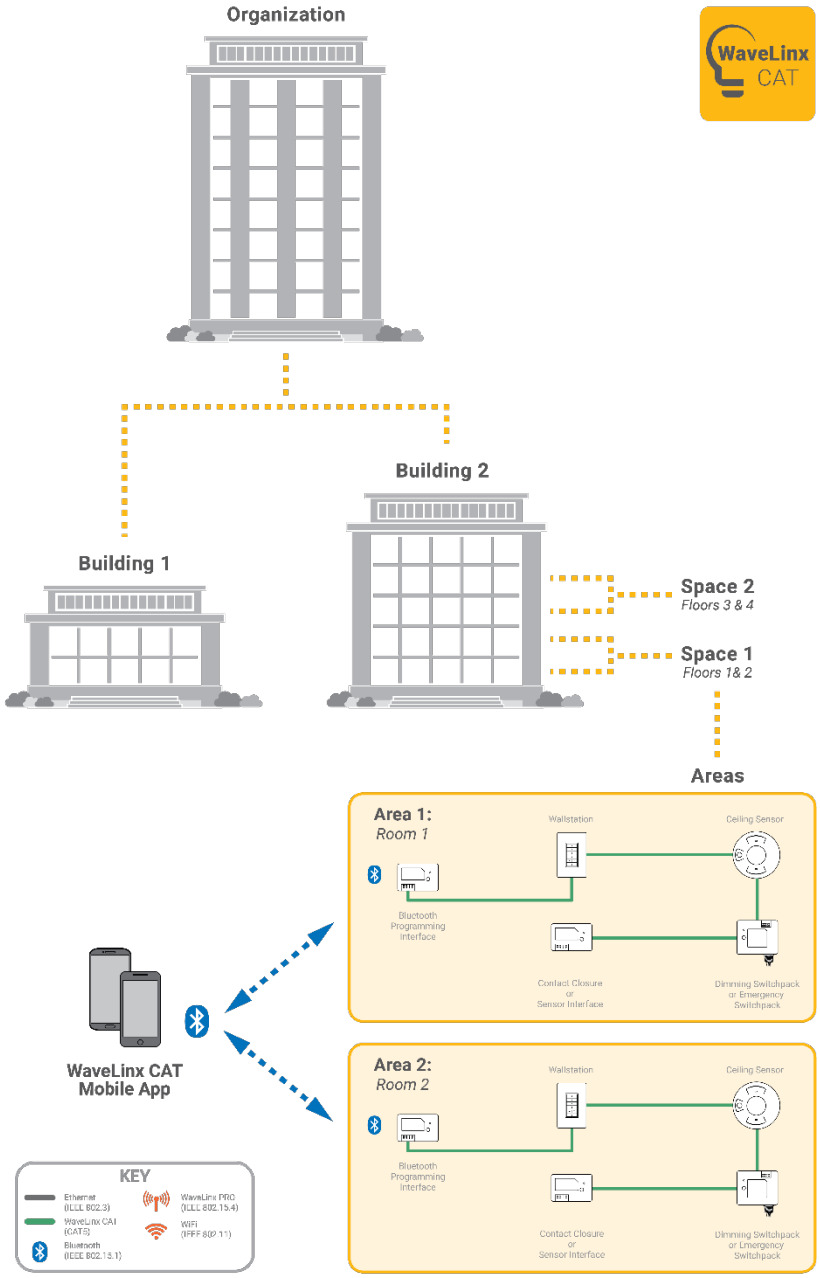
WaveLinx CAT

Begin Here

- Get the WaveLinx CAT application from the Apple App Store® or Google Play™, using a mobile device with iOS 13+ or Android™10+.
- Confirm all WaveLinx CAT devices have been properly connected and powered up, and that the network has been terminated.
- Launch the app and tap **Register** to create an account.
- Turn on the mobile device Bluetooth and stay close to the Bluetooth Programming Interface (within 60 feet/18 meters).
- Log in with a single WaveLinx CAT app. DO NOT have multiple apps logged in at the same time.

WaveLinx CAT lighting systems use CAT 5 networking (to 1000 feet) for reliable, secure device communication and to power most of the devices.

The WaveLinx CAT mobile app connects to the lighting system over Bluetooth to control and configure the devices on the network.



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controltechsupport@cooperlighting.com

Key Concepts

A WaveLinx CAT lighting system is made up of the following:

Organization	The company that owns or manages the WaveLinx CAT devices and programming.	*A corporation or non-profit*
Building	A specific physical location within the organization.	*A building or other facility*
Space	A place within the building that contains rooms of WaveLinx CAT devices. A building may contain any number of spaces.	*A floor or multiple floors in a building*
Area	A collection of lighting devices on the CAT network. **Maximum 28 areas in a space.**	*A room or space*
Zone	A collection of devices within an area that can operate together. **Maximum 16 zones in an area.**	*A room, group, or row*
Device	A WaveLinx CAT component that can join an area and be controlled. **Maximum 40 devices in an area.**	*A fixture, wallstation, or receptacle*

WaveLinx CAT Devices

Bluetooth Programming Interface (BPI)	• Enables wireless communication between the local CAT area and the WaveLinx CAT mobile app • Two RJ45 ports • Powered by CAT bus
Relay Switchpack	• Provides CAT bus power up to 350 mA • 120/277 VAC 20A relay control • Continuous 0-10V dimming of LED and non-LED loads • Can provide normal power beacon
Emergency Switchback	• Controls luminaires powered by an emergency circuit • Detects power loss • Requires only emergency line power
Occupancy Ceiling Sensor	• Passive infrared, photocell, and dual-tech sensors • Automate light control over the CAT communication bus with compatible dimming and switching devices • Modify sensor setting with the app
Sensor Input Module	• Two Greengate brand Dual Tech Sensor inputs (ceiling mount, wall mount/corner mount, and wall box) • Provides network addressability for analog devices • Powered by CAT bus
Wallstation	• Multi-scene and single area dimming • Configurable buttons • Powered by CAT bus
Contact Closure Input Module (CCI)	• Four dry programmable contact inputs • Provides network addressability for analog devices • Powered by CAT bus

Out of the Box Mode

When a WaveLinx CAT system is installed, all connected devices start to work together as an Area, based on their factory or default settings.

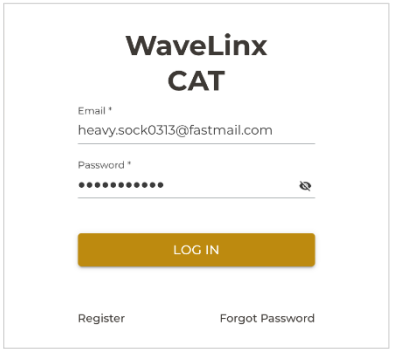
- All the lighting output devices (Relay Switchpack, Emergency Relay Switchpack) will function in default Zone 1
- The ESP (Emergency Relay Switchpack) will be in emergency mode, meaning:
  - The connected load will be at 100% light level
  - The ESP will not respond to Wallstation or Occupancy Sensor commands
- To make the ESP controllable, enable Emergency Mode on the normal RSP (see the *WaveLinx CAT Configuration Manual* for details)
- Sensors, including the Ceiling and Sensor Interface Module, turn on all zones at 50% occupancy with a 20-minute hold time
- Wallstation buttons will set scenes as configured
- Sensor Interface Module will control default occupancy set with a 20-minute hold time
- Contact closure inputs have the following configuration:
  1. Alert mode
  2. Demand Response (DR) reduction to 20%
  3. Not configured
  4. Not configured

Initial Configuration

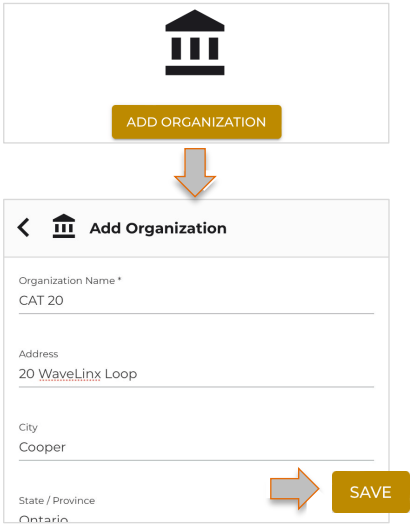
Follow the steps below to create an organization, building, space, and area; connect to the BLE Programming Interface; and discover network devices.

IMPORTANT
You should now be standing in the physical location for this area, with 33 feet/10 meters of the BLE Programming Interface device.

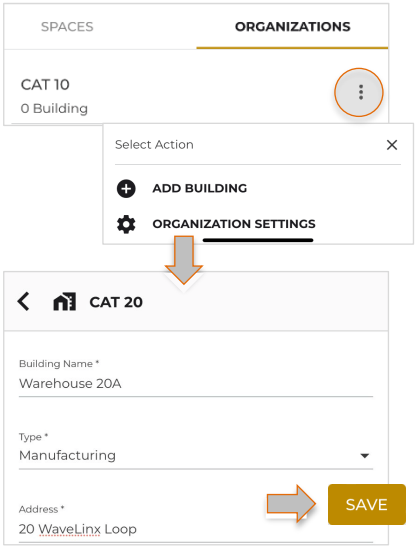
1 – Log into App



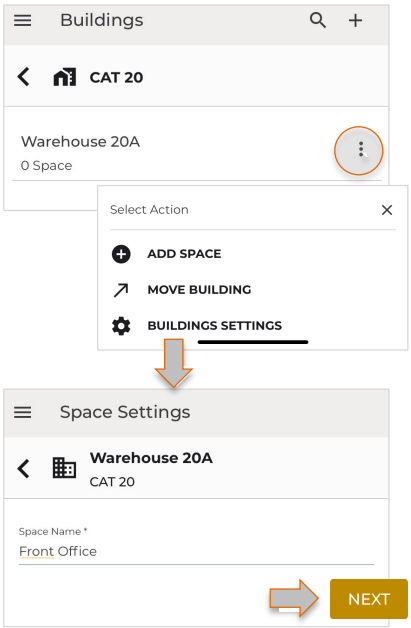
2 – Add Organization



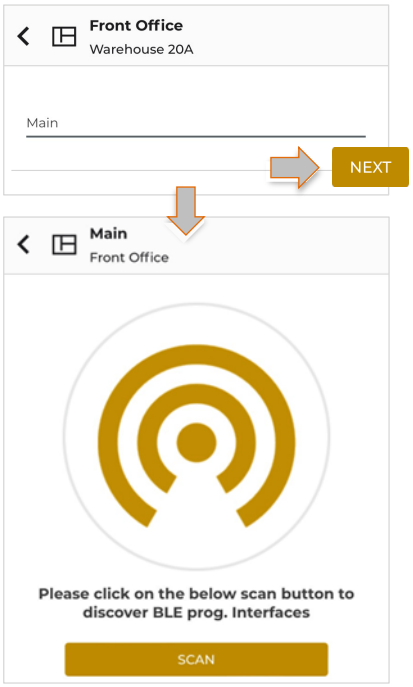
3 – Add Building



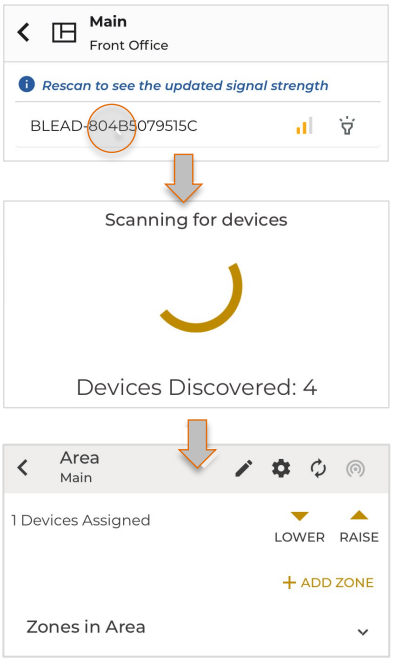
4 – Add Space



5 – Create Area + Scan for BLE Interface



6 – Scan for Devices + View Area



Device LEDs

Each WaveLinx CAT device has an LED to indicate status, as follows:

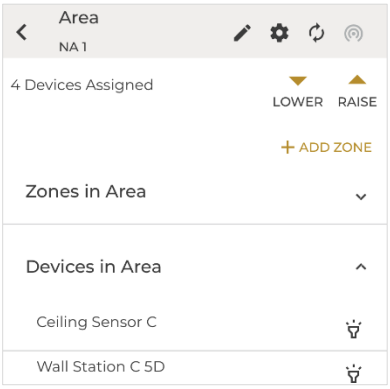
- **Blue** – normal operations
- **Orange** – identified by app (blink 1 second on / 1 second off)
- **Yellow** – factory reset performed

Add a Zone

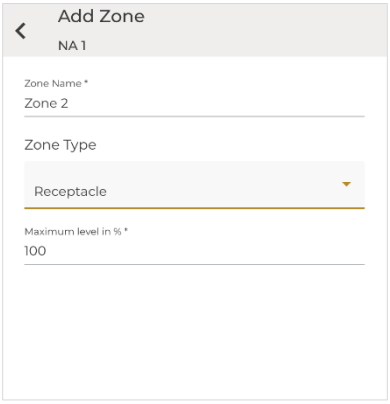
A Zone is used to group lighting devices so they operate together.

Follow the steps below to create a new zone.

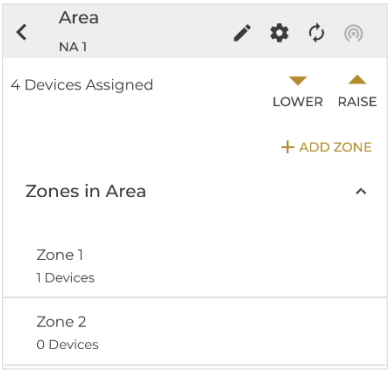
1. Connect using the mobile app. Navigate to the desired area.



2. Tap **Add Zone**, and then configure the new zone.



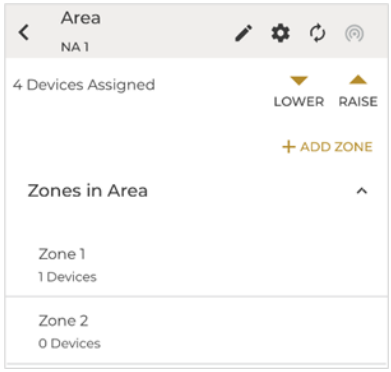
3. Tap **Add** to create the new zone.



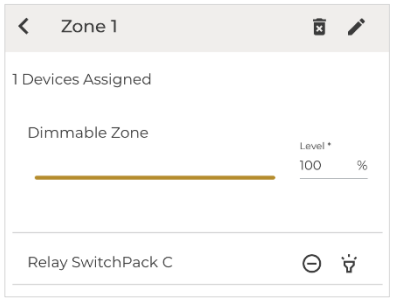
Move a Device

Follow the steps below to move a device from one zone to another.

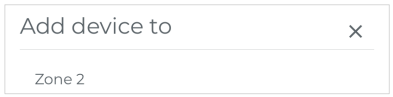
1. Connect using the mobile app. Navigate to the desired area.



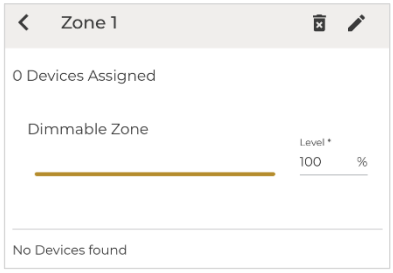
2. Tap **Zone 1**, which contains the device to be moved.



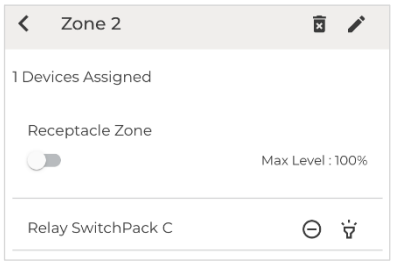
3. Tap ⍰ beside the device you want to move.



4. Tap destination **Zone 2** at the bottom of the screen.



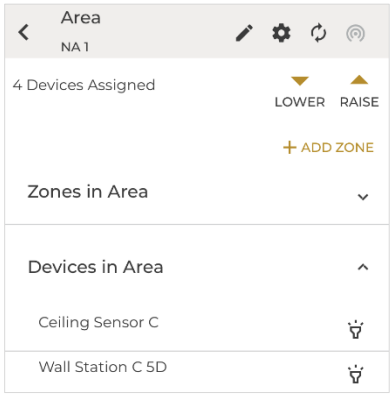
5. Tap **<** , and then tap the destination **Zone 2** to view it.



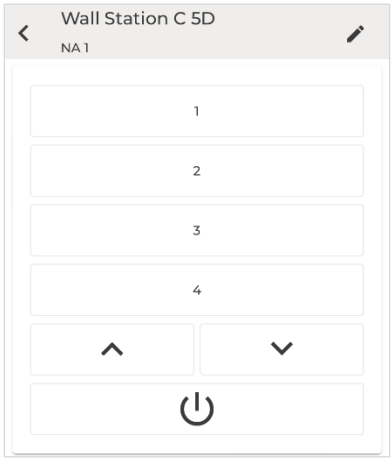
Modify a Wallstation

Follow the steps below to configure the wallstation buttons.

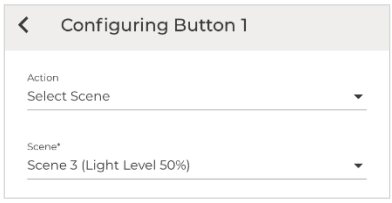
1. Connect using the mobile app. Navigate to the desired area.



2. Tap the wallstation in **Devices in Area**. To modify the wallstation name, tap .



3. Tap a wallstation button to modify its configuration. Select an action (scene or zone), and then a corresponding behavior, and then tap **Save**.



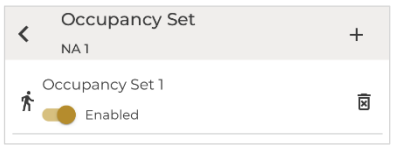
4. When the button configuration is complete, tap to return to the Area screen.

Modify an Occupancy Set

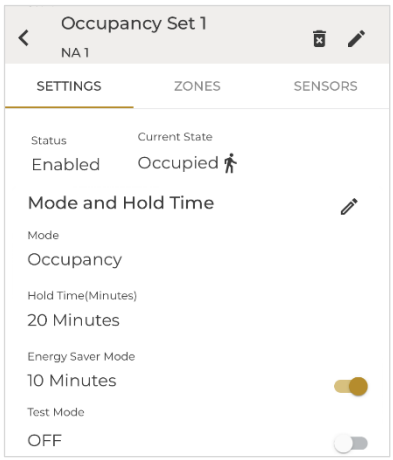
Follow the steps below to modify an occupancy set configuration.

1. Connect using the mobile app. Navigate to the desired area.

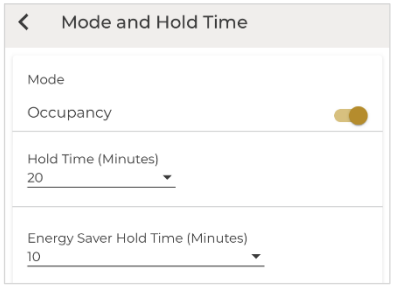
2. Tap **Occupancy** in the bottom menu.



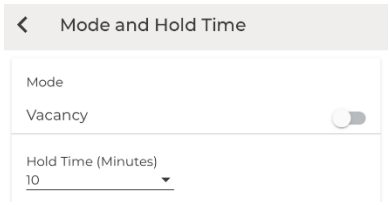
3. Tap the **Occupancy Set 1** row.



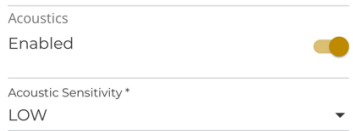
4. Tap beside **Mode and Hold Time**.



5. Edit the Hold Time and Energy Saver settings. If desired, t the **Occupancy** toggle button to switch to **Vacancy** mode.



6. On a dual-tech sensor, toggle the **Enabled** button for Acoustics, and then tap and select an Acoustic Sensitivity value (e.g., **Medium**).

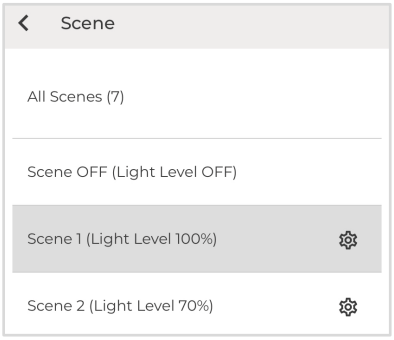


7. Tap **Save** to apply the changes, then tap to return to the Occupancy Sets screen, then tap **Area** in the bottom menu.

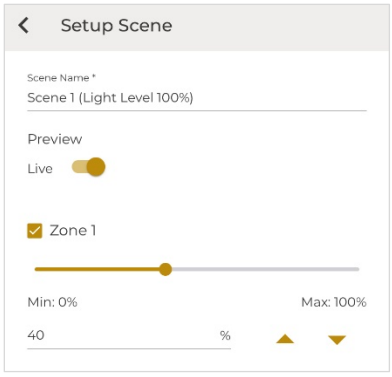
Modify a Scene

Follow the steps below to modify a scene configuration.

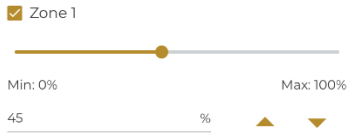
1. Connect using the mobile app. Navigate to the desired area, and then tap **Scenes** in the bottom menu.



2. Tap ⍰ on the Scene 1 row. Tap the **Preview** toggle button to switch to Live output control.



3. Edit the **Zone 1** level settings as desired.



Tap **Save** to apply the configuration, then tap **Area** in the bottom menu to return to the area screen.

Add a Device

If an installer adds a new device to your network, it will appear under New Devices on the Area screen. Tap the ⍰ beside the device to add it.

Troubleshooting Tips

If you are unable to connect to the BLE Programming Interface, confirm that Bluetooth communication is enabled and your device and that you are as close to the BLE Programming Interface as possible.

If the mobile app is not responding, try force-quitting the app and then launch it again. You can also try logging out of the app, and then logging back in again.

If the devices are not behaving as expected, check all CAT cable connections, and confirm the devices at either end of the CAT cable have a termination plug installed.

For More Details

This document is designed to get you up and running with your WaveLinx CAT system, so it only covers the basics of configuring and operating your system. For more details, see the *WaveLinx CAT Configuration Manual*.

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a Signify business