Quick Start Guide

WaveLinx LITE

Begin Here

- ✓ Confirm all WaveLinx LITE devices have been properly connected and powered up.
- ✓ Install the WaveLinx LITE Application from the App Store® or Google Play™ on a mobile device with iOS 14+ or Android™ 11+

LITE **Mobile App**

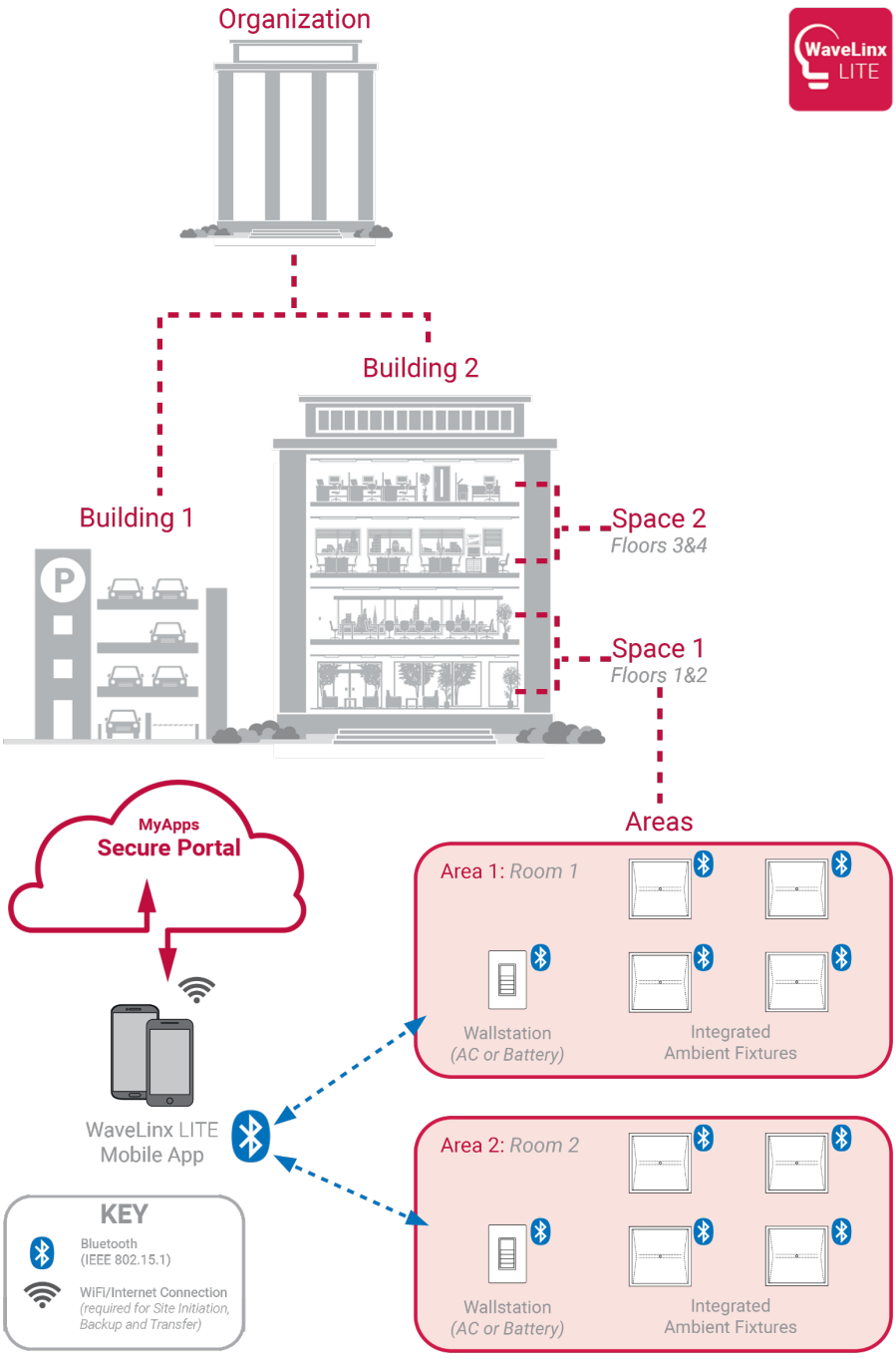
- ✓ Launch the app and tap **Register** to create an account

The WaveLinx LITE smart digital lighting system offers wireless control to save energy and manage lighting without the need for a centralized controller.

The WaveLinx LITE system provides occupancy based, daylighting, or manual lighting control solutions for both indoor and outdoor spaces such as offices, education, industrial/manufacturing spaces, and parking garages.

The WaveLinx LITE mobile application provides a secure method to organize devices and customize programming without complicated commissioning.

This document provides a quick overview of using the mobile application: a walkthrough of the creation of the structure, the assignment of devices, modifications of programming, and basic troubleshooting techniques.



Contact Cooper Lighting Solutions Tech Support
(800) 553-3879
controltechsupport@cooperlighting.com

Key Concepts

A WaveLinx LITE system is organized using the following:

Organization	The company that owns/manages the WaveLinx LITE devices and programming.	*A corporation*
Building	A specific physical location within the organization.	*A building, parking garage, or other facility*
Space	A place within the building that contains rooms of WaveLinx LITE devices. A building may contain any number of spaces.	*A floor or multiple floors of a building*
Area	A room within the space- Devices in the room operate lighting in that room. **Maximum: 28 user defined areas per space**.	*A room within the space*
	• **Networked Area**: Devices interact together and form a Bluetooth mesh network with each other.	*A wallstation or sensor controls the room's lighting/devices*
	• **Standalone Area**: Devices operate independently and communicate independently to the WaveLinx Mobile App.	*Each fixture is controlled only by its own connected sensor*
Zone	A collection of load devices within a networked area that operates together **Maximum 16 zones per networked area.** *Standalone areas do not have zones*	*A row or group within the area*
Device	A WaveLinx LITE component- **Maximum 50 devices (40 best practice) per networked area** *Standalone areas have no device maximum.*	*A switchpack, wallstation, integrated, fixture mounted or tilemount sensor*

Additional Key Terms

Provisioning	The process of adding a device to an area using the WaveLinx LITE Mobile App
Energy Saver Mode	A feature used with occupancy sensors to allow a transition to a lower light level when the space is unoccupied before transitioning to OFF or the defined unoccupied state.

WaveLinx Devices

WaveLinx LITE Ambient Integrated Sensor	• Passive infrared sensor for motion sensing • Daylight sensor for daylight dimming
WaveLinx LITE Industrial Fixture Mount Sensor	• High bay (max 40/45 ft) and low bay (max 15 ft) IP66 rated models • Passive infrared sensor for motion sensing • Daylight sensor for daylight dimming
WaveLinx LITE Outdoor Fixture Mount Sensor	• High (max 40/45 ft) and low mount (max 15 ft) IP66 rated models • Passive infrared sensor for motion sensing • Daylight sensor for daylight harvesting

WaveLinx LITE Tilemount Sensor	• Provides control of non-integrated luminaires through connected control module
	  • 120/277 VAC 3A relay control
	  • Continuous 0-10V dimming of LED and non-LED loads, 10mA Sink
	• Passive infrared sensor for motion sensing
	• Daylight sensor for daylight dimming

WaveLinx LITE Switchpack	• 120/277 VAC 20A relay control • Continuous 0-10V dimming of LED and non-LED loads, 30mA Sink
WaveLinx LITE Emergency Switchpack	• Controls luminaires powered by an emergency circuit • Detects power loss while only requiring emergency line power • 120/277 VAC 20A relay control • Continuous 0-10V dimming of LED and non-LED loads, 30mA Sink
WaveLinx LITE Wallstation	• Multi-scene and area dimming • Programmable buttons • AC and battery powered models

Out of the Box Operation

When a WaveLinx LITE device is installed and powered, it will begin out of the box operation.

- Relay Switchpack and Emergency Relay Switchpack will turn ON and remain ON.
- Wallstation buttons will not operate until provisioned in the WaveLinx LITE App.
- Integrated, Fixture Mounted or Tilemount Sensor Operation:

	Ambient & Tilemount Sensors	Industrial Sensors	Outdoor Sensors
Daylighting	disabled	disabled	lights ON dusk/ OFF dawn
Occupied	ON 100%	ON 100%	ON to daylight determined level
Unoccupied	• after 10 min. go to 50% • after 10 min. more go to OFF 0%	• after 10 min. go to 50% • after 10 min. more go to 10%	• after 7.5 min. go to 50% (during dusk operation)

Using the Mobile App to Create a New Organization

Follow the steps below to create a new organization, create a building, create a space, create areas, and assign devices.

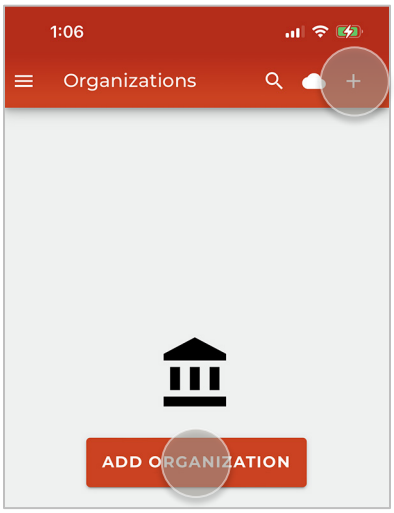
IMPORTANT:
Turn on the mobile device Bluetooth and ensure that the mobile device has internet access.

Step 1: Create a New Organization

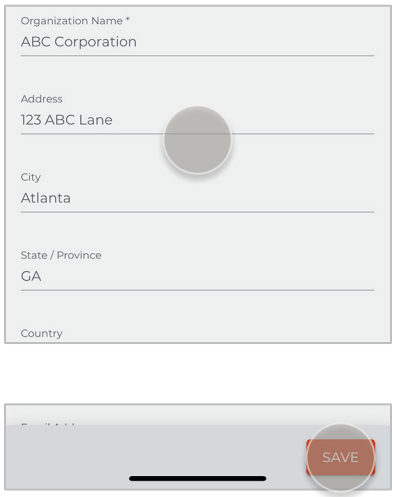
1 – Open and, if not already signed in, login to the WaveLinx LITE App

2 – Add a new organization

- Tap **+** or **ADD ORGANIZATION**

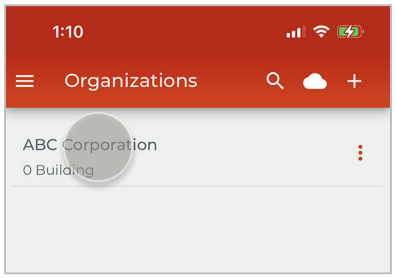


3 – Fill in organization details and optional contact info



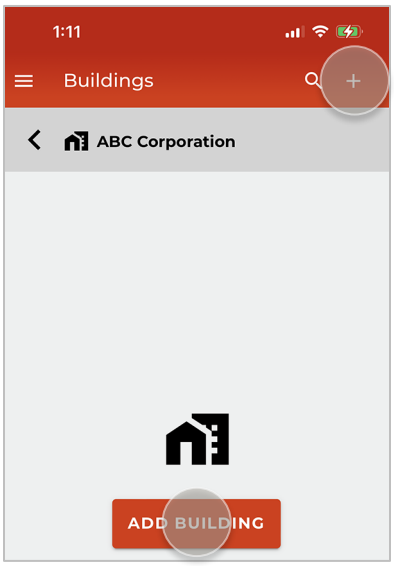
Step 2: Create a New Building

1 – Open the organization

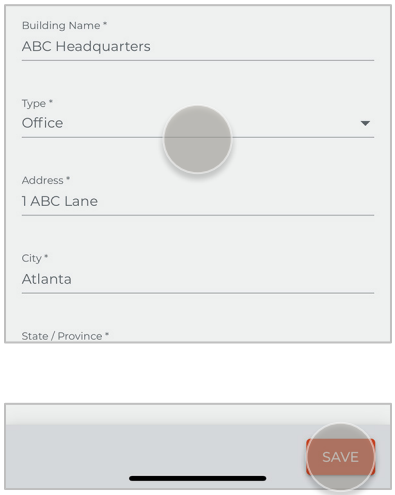


2 – Add a new building

- Tap **+** or **ADD BUILDING**



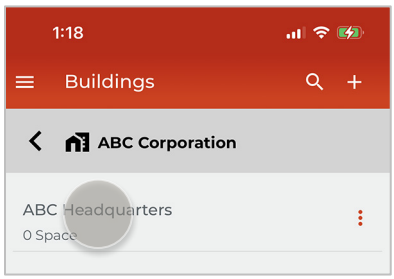
3 – Fill in the building details



Note: For smaller facilities, the organization and building may contain the same details.

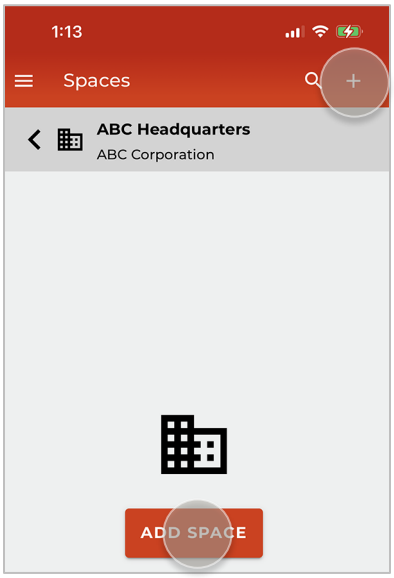
Step 3: Create a New Space

1 – Open the building

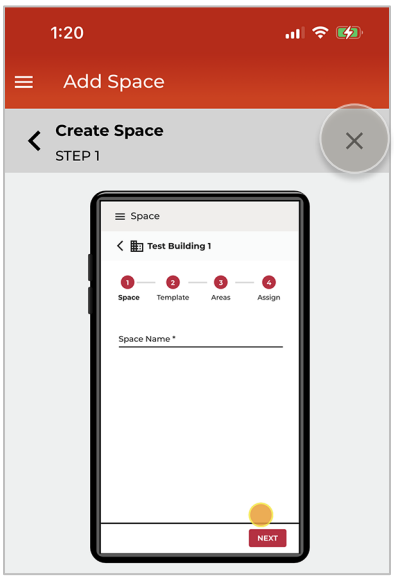


2 – Add a new space

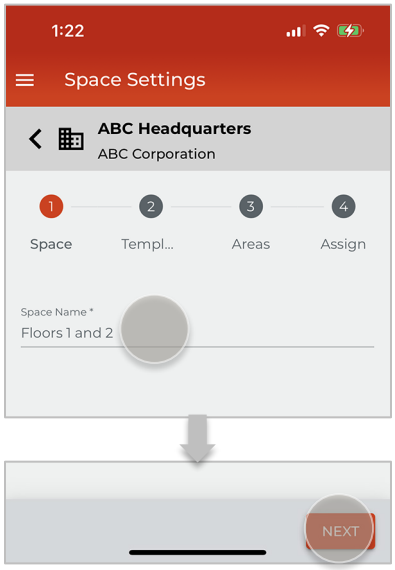
- Tap **+** or **ADD SPACE**



3 – Close the tutorial



4 – Name the new space and tap NEXT

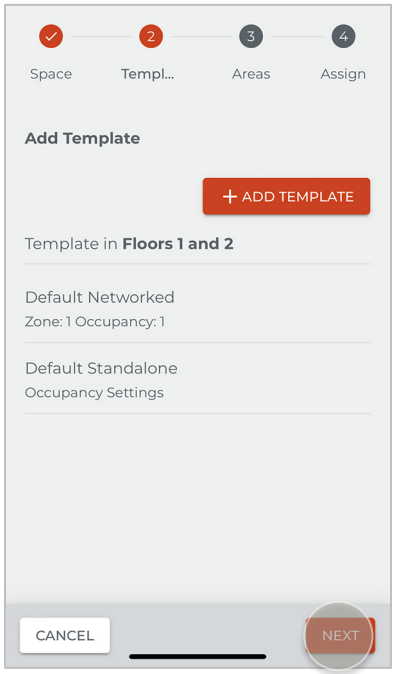


Note: For smaller facilities with fewer than 28 areas, the organization, building, and space may be named the same.

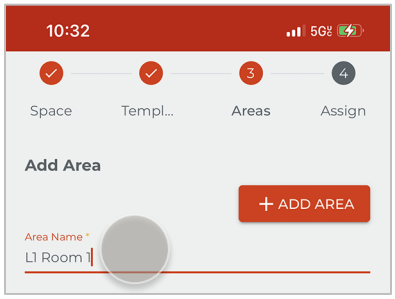
Step 4: Create Area(s)

IMPORTANT
Only default templates will be used in the following steps. For details on creating and using additional templates, see the WaveLinx LITE User Guide.

1 – In the Template screen, tap NEXT

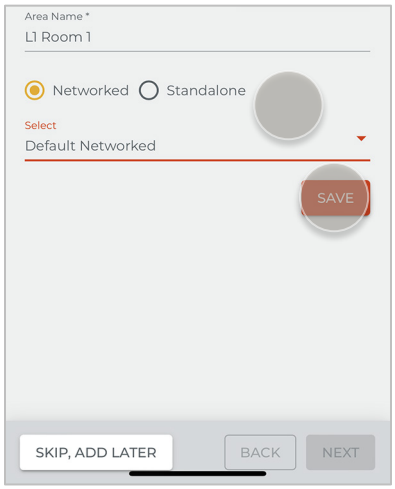


2 – Enter a name for the first new area/room



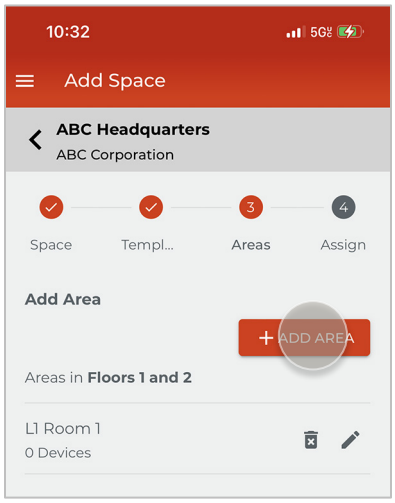
3 – Configure the area/room

- Select the room/area configuration:
  - **Networked Area**: Devices interact together in the area
  - **Standalone Area**: Devices operate independently
- Select the default template
- Tap **SAVE**

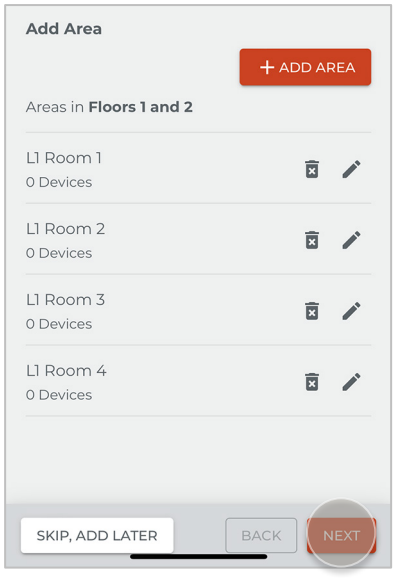


4 – Add additional areas until all rooms/areas are added for the space

- Tap **+ ADD AREA** to add more rooms



5 – Once all areas/rooms are added, Tap NEXT



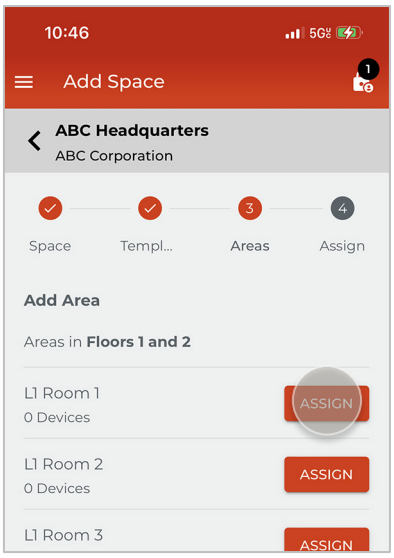
Step 5: Assign Devices to Areas (Provisioning)

The process of assigning devices to the created areas is referred to as **provisioning**.

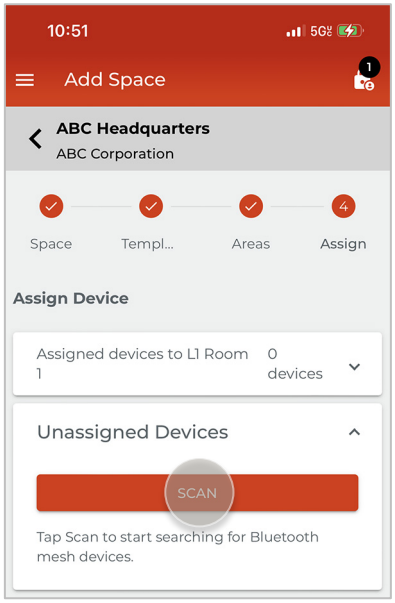
IMPORTANT

The mobile device's Bluetooth connection is used for provisioning devices. For best results, bring the mobile device as close as possible to the WaveLinx LITE device being assigned. The distance should not exceed 60 feet/18 meters.

1 – Physically go to the location for the first area, locate the area on the mobile device screen, and then tap ASSIGN

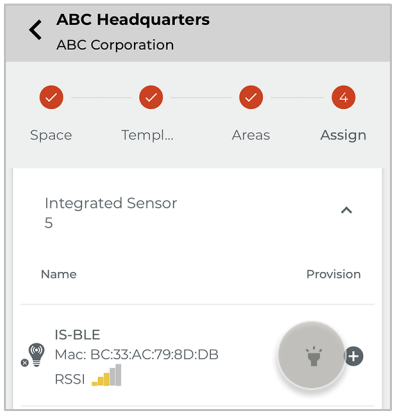


2 – Tap SCAN to start a device search and wait for the search to complete



3 – Indentify the first AC powered device in the room

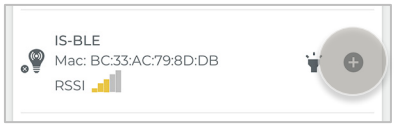
- Devices will be listed in categories with the closest device listed first.
- Tap the identify icon and verify that the desired device is flashing its LED/connected light for 15 seconds.



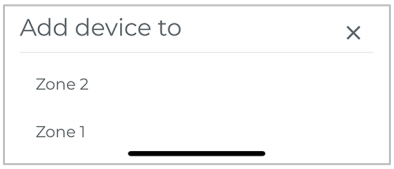
Note: Standalone areas will only display standalone compatible devices.

4 – Add/provision the identified device to the area

- Tap ⊕ next to the identified device.
- Wait for provisioning to complete.



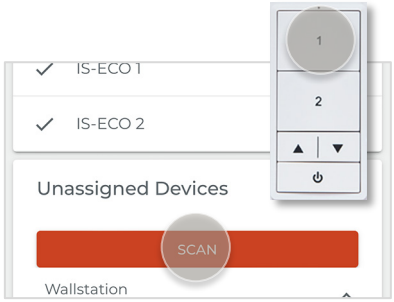
Note: If a custom template is used with multiple zones, select the desired zone when prompted for sensor and switchpack devices.



Repeat steps 3 through 4 for all AC powered devices in the room

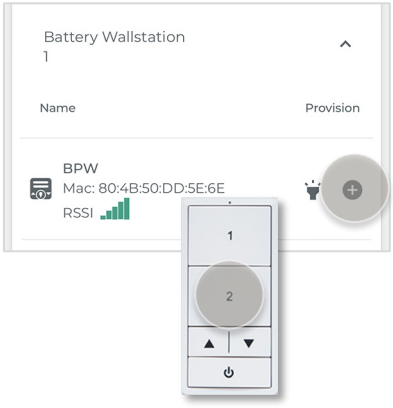
5 – If there are battery powered devices, SCAN for the first battery powered device

- Press any button on the battery powered wallstation.
- Within 30 seconds, tap **SCAN** in the mobile app.
- Wait for the scan to complete.



6 – Add/provision the battery powered device to the area

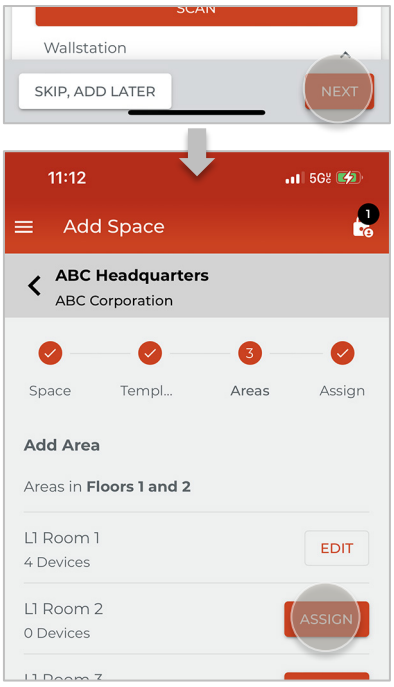
- Tap ⊕ next to the battery powered wallstation and when prompted, press a button on the wallstation.
- Wait for provisioning to complete successfully.



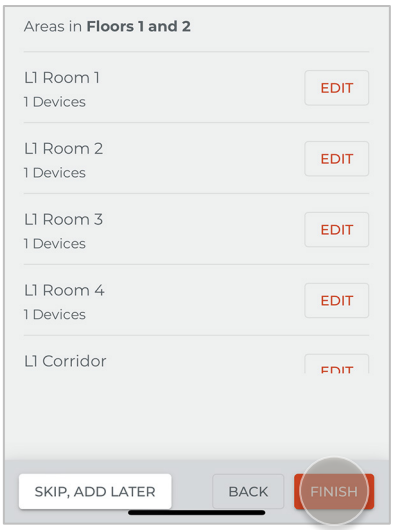
Repeat steps 5 and 6 for additional battery powered devices in the room

Step 5: Assign Devices to Areas (Provisioning) Continued

7 – Once all devices are provisioned in the area tap NEXT



8 – Once all areas are assigned, tap FINISH



Repeat the process to assign devices to the next area

LED Behavior after Provisioning

Once the WaveLinx LITE devices are provisioned, the LEDs of the devices will reflect their provisioned status.

- Integrated, Fixture Mount and Tilemount Sensor LEDs will flash white, then blue, and then OFF and repeat every 3 seconds when motion is occurring.
- Switchpack LEDs turn white when relay is ON.
- Line voltage powered Wallstation LEDs will flash white, then blue, and then OFF, repeating the pattern for 10 seconds when a button is pressed.
- Battery powered Wallstation LEDs will flash white, and then a second color, either blue (battery OK), yellow (battery low) or red (battery very low), before turning OFF. The LED will repeat this pattern for 10 seconds when a button is pressed.

Provisioned Device Operation

When a WaveLinx LITE device is provisioned, it will begin default to the following behavior.

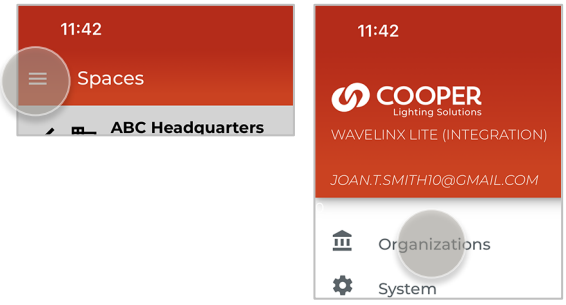
- Relay Switchpacks and Emergency Relay Switchpacks will respond to occupancy set and wallstation commands from devices in the same area.
- Wallstation buttons will operate lighting in their area with default scene and zone commands.
- Integrated, Fixture Mounted or Tilemount Sensor Operation:

	Ambient & Tilemount Sensors	Industrial Sensors	Outdoor Sensors
Daylighting	disabled	disabled	lights ON dusk/ OFF dawn
Occupied	ON 100%	ON 100%	ON to daylight determined level
Unoccupied	• after 10 min. go to 50% • after 10 min. more go to OFF 0%	• after 10 min. go to 50% • after 10 min. more go to OFF 0%	(during dusk operation) • after 10 min. go to 50% • after 10 min. more go to OFF 0%

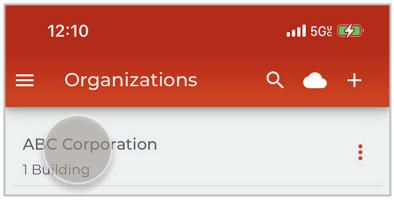
View the Organization and Devices

Follow the steps below to view the organization and devices:

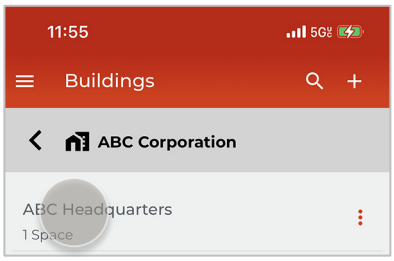
1. Open the **WaveLinx LITE App** and, if needed, **Login**.
2. From the menu ☰, select **Organizations**.



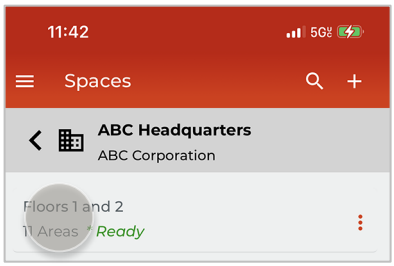
3. Tap the desired **organization** name to display the buildings.



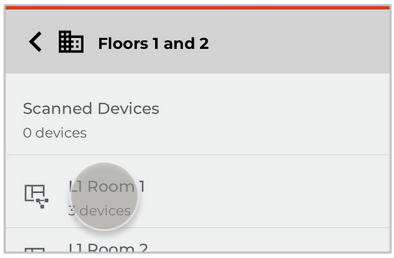
4. Tap the desired **building** name to display the spaces.



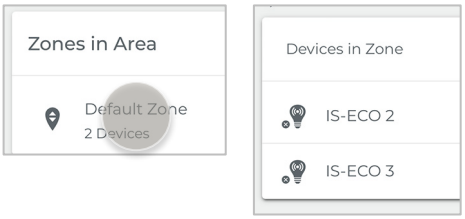
5. Tap the desired **space** name to display the areas.



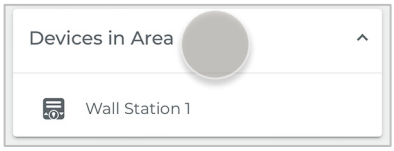
6. Tap any **area**/room to display the devices.



7. Tap any **Zone** to display any assigned devices. Tap **back** ‹ at the top of the screen to return to the area.



8. Review **Devices In Area** to show wallstations in the area.



Modifying Area Programming

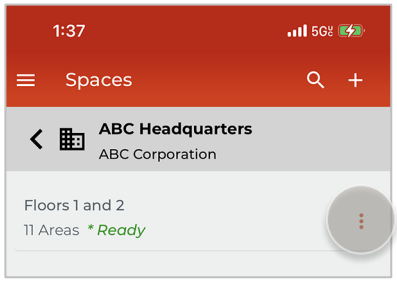
In this section, learn how to modify basic program settings by adding zones, moving devices between zones, changing wallstation commands, modifying occupancy set or sensor settings, and adjusting scene levels.

Enter EDIT SPACE Mode

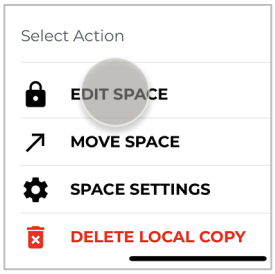
Enter **EDIT SPACE** mode to modify an area's programming. This "checks out" the space from the cloud and locks it, preventing it from being modified by other authorized users until changes are submitted.

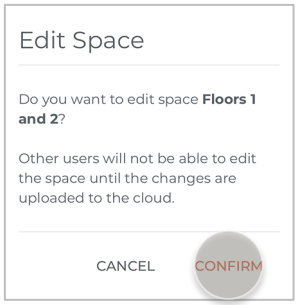
1. Open the **WaveLinx LITE App** and, if needed, **Login**.

2. Navigate to the organization's **Spaces** and then tap the **more icon** ⋮ next to the desired space.



3. Tap **EDIT SPACE** and then tap **Confirm** to lock the space for editing.



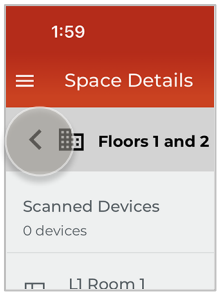


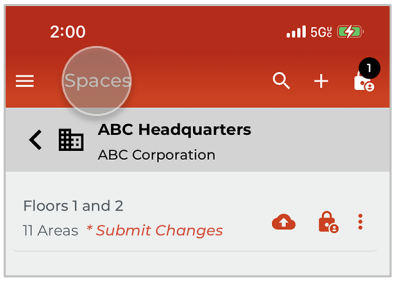
4. Proceed with the desired change(s) and then **Exit EDIT SPACE** mode.

Exit EDIT SPACE Mode (Submit Changes)

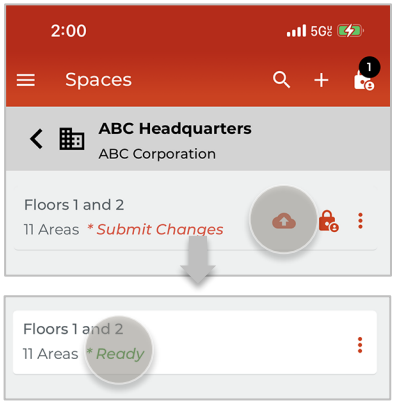
Once changes are complete, submit the changes to the cloud to back up the changes and **Exit EDIT SPACE** mode. This unlocks the space for programming access by other authorized users.

1. Navigate back to the **Spaces** list.





2. Tap the **submit icon** ☁ and wait for the upload to complete. Once uploaded, the area will show **Ready**.



Note: The WaveLinx LITE mobile app will automatically try to sync changes every 15 minutes dependent on the mobile device's operating system, performance, battery charge, and internet connection.

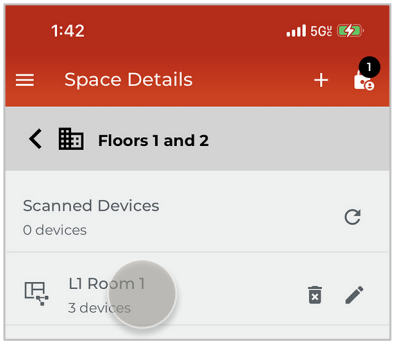
Add a Zone

Zones apply to networked areas only. A Zone is used to group lighting devices so that they operate together.

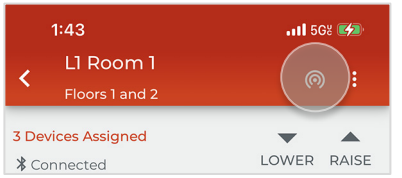
Follow the steps below to create a new zone.

1. Enter **EDIT SPACE** mode (see page 9) and bring the mobile device to the location being modified (within 60 feet/18 meters of the device).

2. Tap the desired **area**.



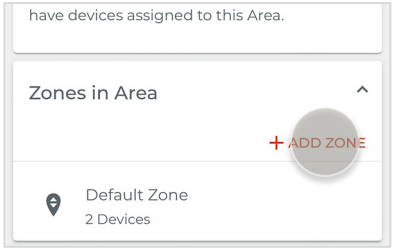
3. Verify that the mobile app is connected to the area's Bluetooth mesh network.



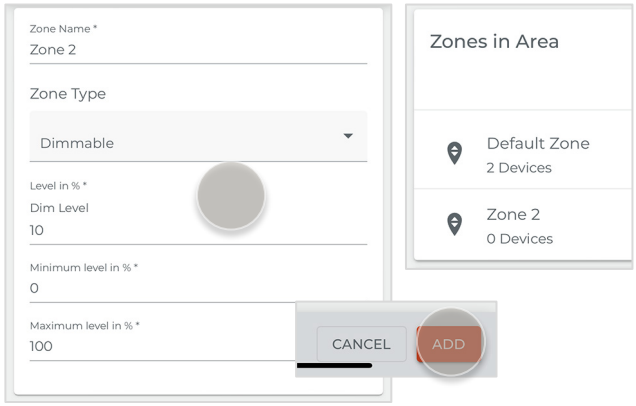
Connected

Disconnected

4. Select **+ ADD ZONE.**



5. Configure the new zone and then tap **ADD**.



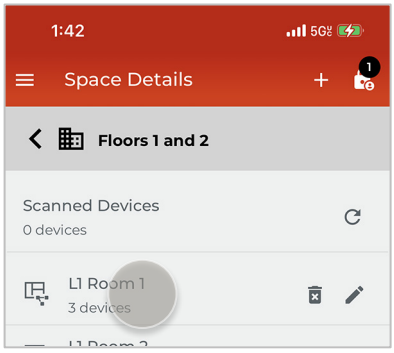
6. Once complete, **Exit EDIT SPACE** mode (see page 9).

Move a Device to a Different Zone

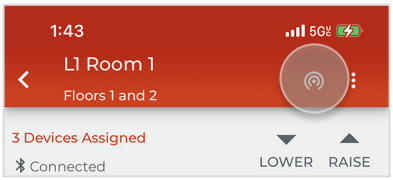
Zones apply to networked areas only. Follow the steps below to move a device from one zone to another.

1. Enter **EDIT SPACE** mode (see page 9) and bring the mobile device to the location being modified (within 60 feet/18 meters of the device).

2. Tap the desired **area**.



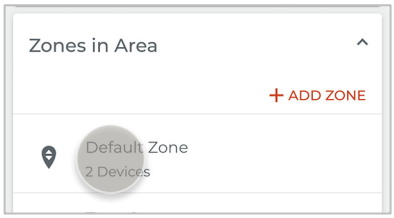
3. Verify that the mobile app is connected to the area's Bluetooth mesh network.



Connected

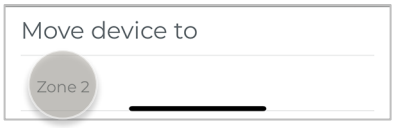
Disconnected

4. Tap the **Zone** row that contains the device to be moved.



5. Next to the device, tap the ⊖ **icon**.

6. When prompted, select the **Zone** the device should be moved to and wait for the move to complete.



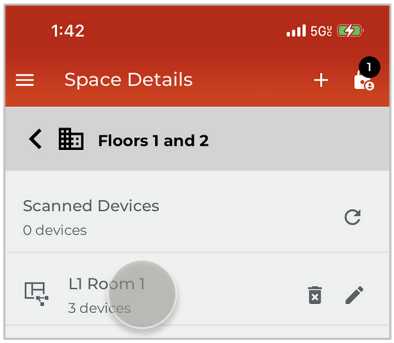
7. Once complete, **Exit EDIT SPACE** mode (see page 9).

Modify a Wallstation

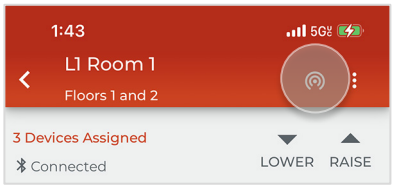
Wallstations modifications apply to networked areas only. Follow the steps below to change the wallstation button commands:

1. Enter **EDIT SPACE** mode (see page 9) and bring the mobile device to the location being modified (within 60 feet/18 meters of the device).

2. Tap the desired **area**.



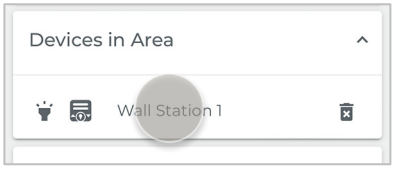
3. Verify that the mobile app is connected to the area's Bluetooth mesh network.



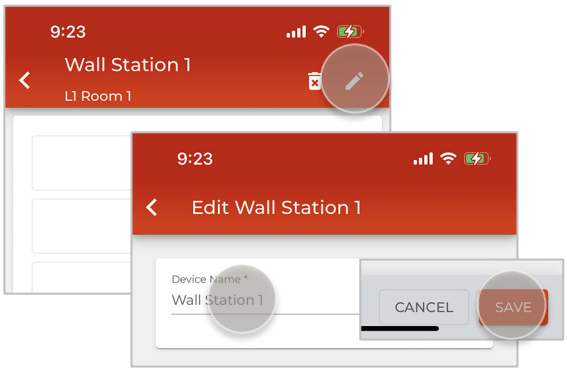
Connected

Disconnected

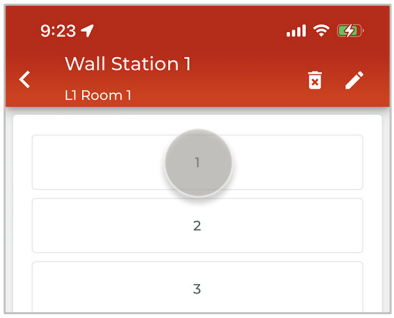
4. Locate **Devices in Area**, and then tap the wallstation.



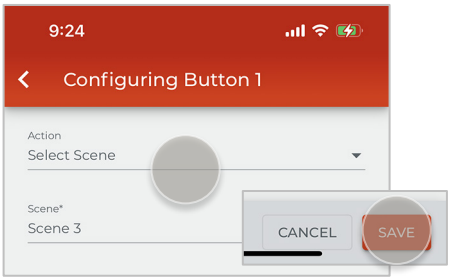
5. Tap **edit** ✎ to rename the wallstation and **save** the change.



6. Tap a wallstation button to modify its command.



7. Select the desired action and the corresponding behavior, and then tap **save**.



8. Repeat steps 6 and 7 to change behavior for additional buttons.

9. Once complete, tap **back** ‹ to return to the area and then **Exit EDIT SPACE** mode (see page 9).

Modify Occupancy Sensor Behavior

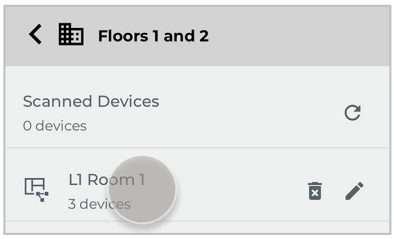
Occupancy sensor behavior modification is slightly different between a **networked area** and a **standalone area**.

Networked Area: Modify an Occupancy Set:

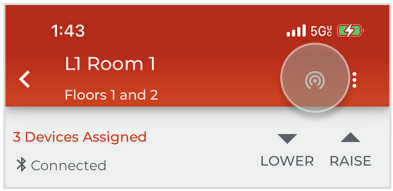
In a **networked area**, make changes to the occupancy set.

1. Enter **EDIT SPACE** mode (see page 9) and bring the mobile device to the location being modified (within 60 feet/18 meters of the device).

2. Tap the desired **area**.



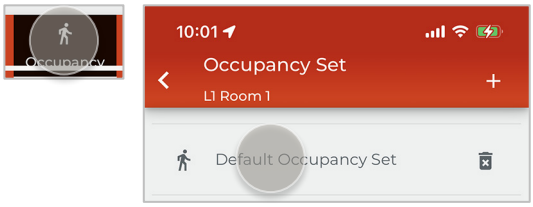
3. Verify that the mobile app is connected to the area's Bluetooth mesh network.



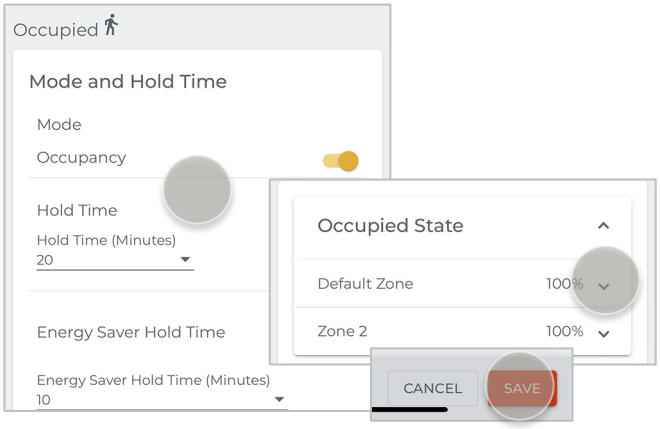
Connected

Disconnected

4. At the bottom of the screen, tap **Occupancy** and then tap the desired **Occupancy Set**.



5. Select the desired **mode** (occupancy or vacancy), edit the **hold times** and **actions**. Tap **save**.



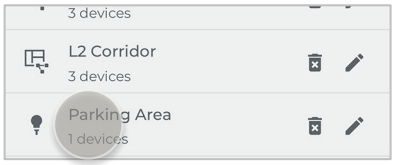
6. Once complete, tap **back** < to return to the area and then **Exit EDIT SPACE** mode (see page 9).

Standalone Area: Modify an Occupancy Sensor

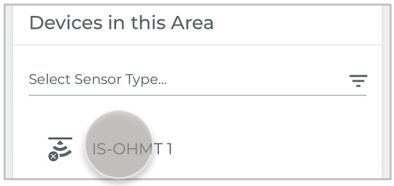
In a **standalone area**, make changes directly to the device's occupancy sensor.

1. Enter **EDIT SPACE** mode (see page 9) and bring the mobile device to the device being modified (within 60 feet/18 meters of the device).

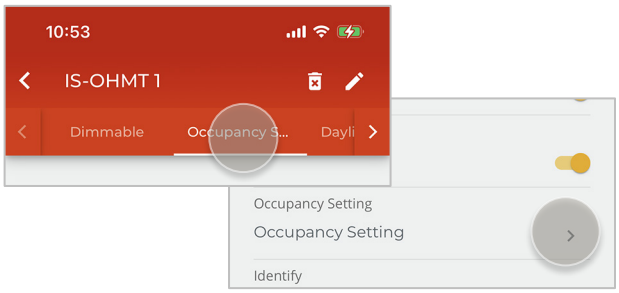
2. Tap the desired **area**.



3. In **Devices in this Area** tap a **device** and wait for the mobile app to connect.



4. At the top of the screen, tap **Occupancy Sensor** and then tap > next to **Occupancy Settings**.



5. Select the desired **hold time**, **energy saver hold time**, and the **light levels** for the occupied, state, energy saver state, and unoccupied state. Tap **save**.

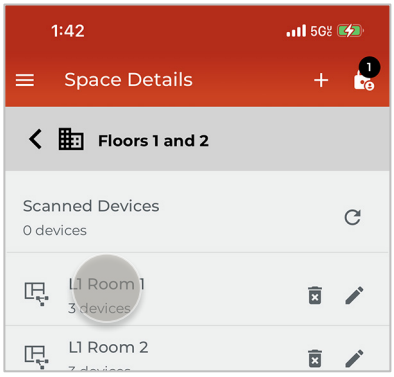
6. Once complete, tap **back** < at the top of the screen to return to the area and then **Exit EDIT SPACE** mode (see page 9).

Modify a Scene

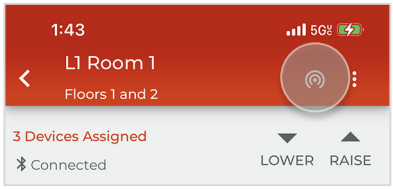
Scene modifications apply to networked areas only. Follow the steps below to modify a scene configuration:

1. Enter **EDIT SPACE** mode (see page 9) and bring the mobile device to the location being modified (within 60 feet/18 meters of the device).

2. Tap the desired **area**.



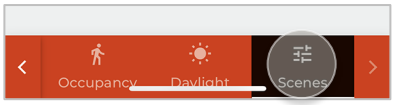
3. Verify that the mobile app is connected to the area's Bluetooth mesh network.



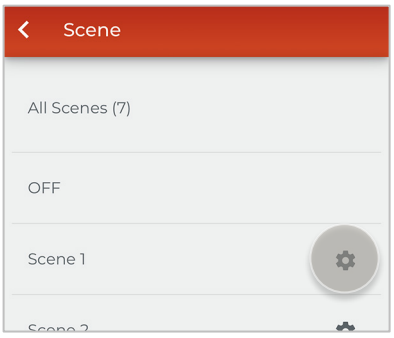
Connected

Disconnected

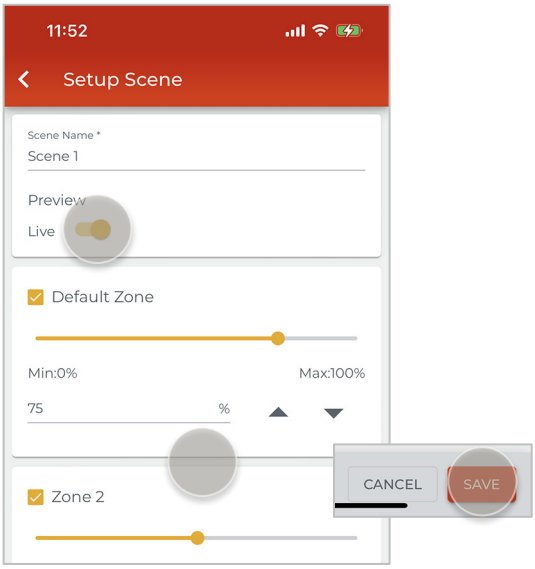
4. At the bottom of the screen, scroll to the **right** > and tap **Scenes**.



5. Tap ⚙ in the row of the desired scene.



6. Tap the **preview** toggle to switch to **live** control and then edit each Zone to the desired level. Tap **Save** and then tap back < to return to the scene list.



7. Repeat steps 5 and 6 to change additional scenes.

8. Once complete, tap **back** < to return to the area and then **Exit EDIT SPACE** mode (see page 9).

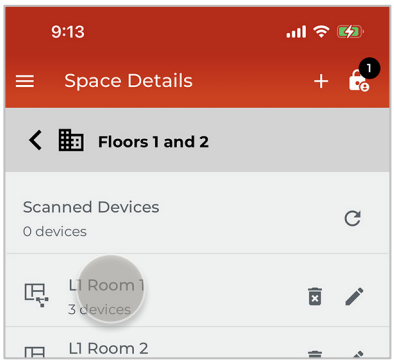
Add a Device

If an installer adds a new device or if adding devices was skipped during the initial setup wizard, the device can be scanned and added in the area screen. The steps are slightly different for AC powered devices and battery powered wallstations. Optionally, the WaveLinx PRO IR Remote can aid in streamlining the process of adding fixtures with integrated sensors.

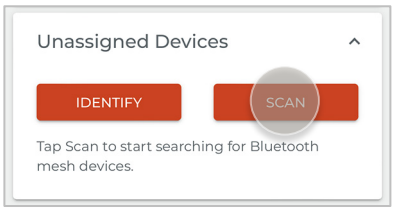
Add an AC Powered Device

1. Enter **EDIT SPACE** mode (see page 9) and bring the mobile device to the device being added (within 60 feet/18 meters of the device).

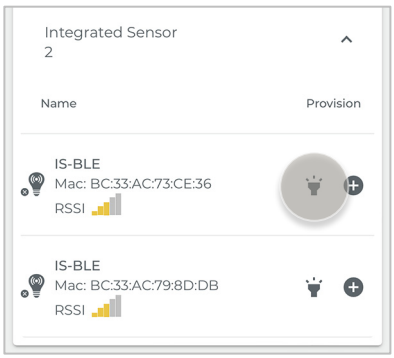
2. Tap the desired **area**.



3. Scroll down and tap **SCAN**. Wait for the scan to complete.



4. Tap the **identify icon** and verify that the desired device is responding (flashing LED/connected light for 15 seconds).



5. Tap ⊕ to provision the device to the area (if requested, select the desired zone). Wait for provisioning to complete.

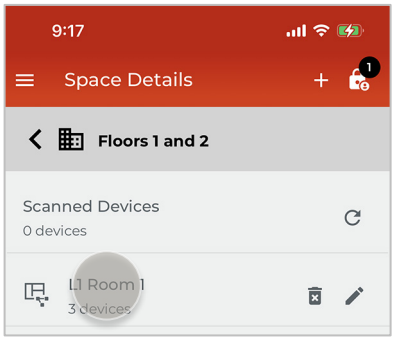
6. Repeat for additional AC powered devices.

7. Once complete, **Exit EDIT SPACE** mode (see page 9).

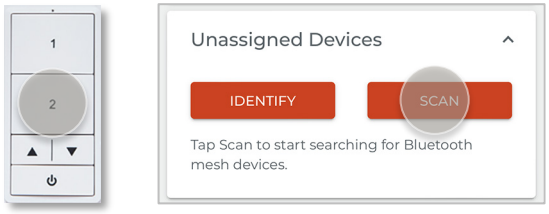
Add a Battery Powered Wallstation

1. Enter **EDIT SPACE** mode (see page 9) and bring the mobile device to the device being added (close enough to press the device button).

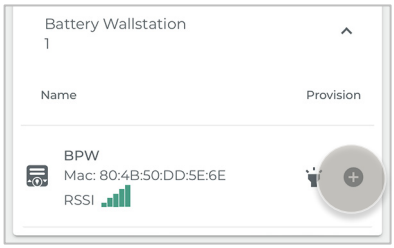
2. Tap the desired **area**.



3. Press any **button** on the wallstation and Within 30 seconds, tap **SCAN** and wait for the scan to complete.



4. Locate the scanned wallstation and then tap ⊕ to add the device.



5. When prompted, press a **button** on the wallstation. Wait for provisioning to complete successfully.

6. Repeat for additional battery powered wallstations in the area.

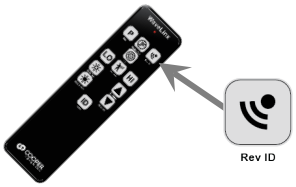
7. Once complete, **Exit EDIT SPACE** mode (see page 9).

Use the Remote Method to Add a Fixture with Integrated Sensor

Optionally, the WaveLinx PRO IR Remote can aid in streamlining the process of adding fixtures with integrated sensors. Only the **Rev ID** button will be used. No other buttons will function for the WaveLinx LITE devices.

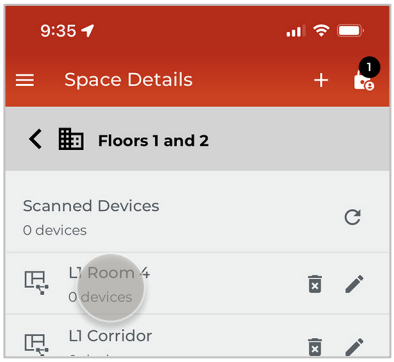
Additional Tools Required:

WaveLinx Pro IR Remote (ACC-P-RT)

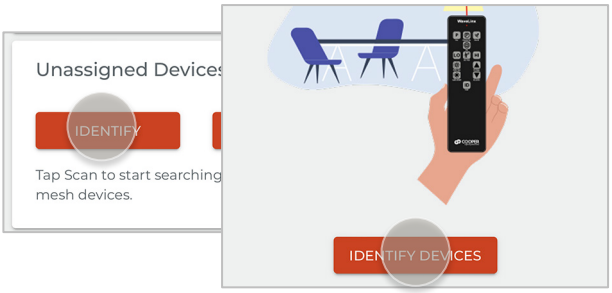


1. Enter **EDIT SPACE** mode (see page 9) and bring the mobile device and IR Remote to the fixture being added (within 60 feet/18 meters of the integrated sensor).

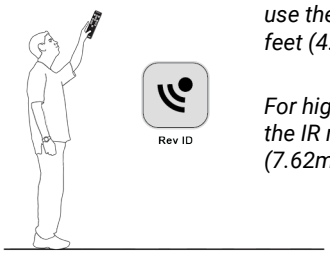
2. Tap the desired **area**.



3. Scroll down and tap **IDENTIFY** and when prompted, tap **IDENTIFY DEVICES** to begin the scan.



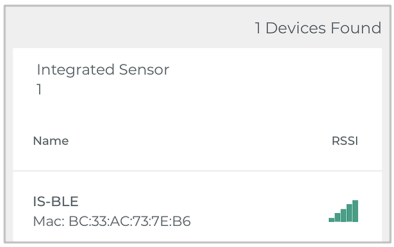
4. Stand under the first fixture in the zone and point the IR Remote at the sensor lens. Press the **REV ID** button.



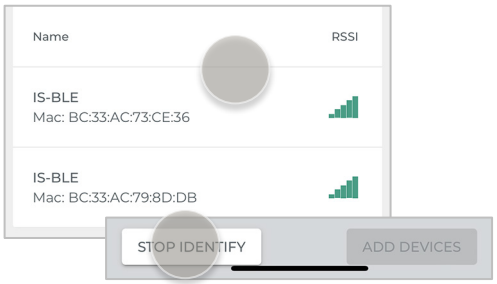
For standard ceiling heights, use the IR remote within 14 feet (4.27m) of the fixture.

For high mount fixtures, use the IR remote within 25 feet (7.62m) of the fixture.

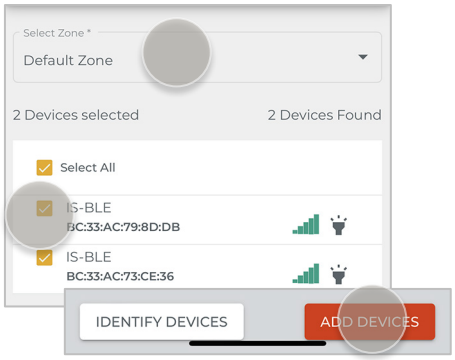
5. The device should appear in the **Devices Found** list.



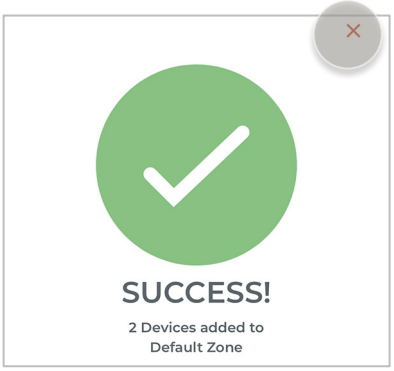
6. Repeat steps 4 and 5 for additional fixtures that should belong to the same zone. Once all fixtures are identified, tap **STOP IDENTIFY**.



7. Select the **Zone** from the dropdown, **checkmark all devices** that should belong to that zone, and then tap **ADD DEVICES**.



8. Wait for a success confirmation. Tap **X** to close the confirmation screen.



9. Repeat for additional zones and areas.

10. Once complete, **Exit EDIT SPACE** mode (see page 9).

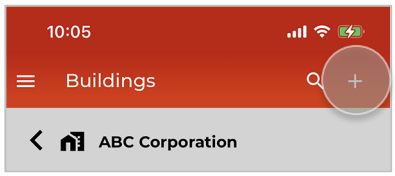
Add Buildings, Spaces, and Areas

Once an organization is created, buildings, spaces and areas can be added at any time.

Add a Building

To add a building:

1. Navigate to the **Buildings** list.
2. Tap **+** at the top of the screen.



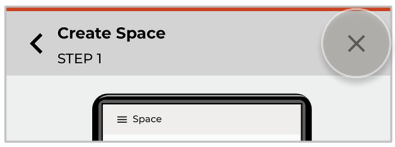
3. Complete the building details and tap **SAVE**.

Add a Space

To add a space:

1. Navigate to the **Spaces** list.
2. Tap **+** at the top of the screen.

3. Tap **X** to close the tutorial

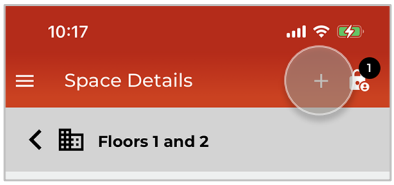


4. Enter the space name and tap **NEXT.** Continue to define the new space using the wizard.

Add an Area

To add an area:

1. Enter **EDIT SPACE** mode (see page 9).
2. Tap **+** at the top of the **Space Details** screen.



3. Enter the area name, select a networked or standalone area, and then select the desired template. Tap **SAVE.**
4. Once complete, **Exit EDIT SPACE** mode (see page 9).

Troubleshooting Tips

If you are unable to connect to the WaveLinx LITE Devices:

- Make sure that the device is powered.
- Confirm that the mobile device's Bluetooth is turned ON.
- Move closer to the WaveLinx LITE device.

If the WaveLinx LITE Mobile App is not responding:

- Try force-quitting the app and then launch it again.
- Try powering off and then power up the mobile device (reboot).

If there is an error on provisioning or modifying a setting:

- Move closer to the device.
- Tap on the alert icon ⚠ to reprocess the command.
- Review the device settings in the WaveLinx Mobile App.

For More Details

This document is designed to get you up and running with your WaveLinx LITE system. It only covers the basics of configuring and operating your system. For more details, see the *WaveLinx LITE User and Programming Manual*.

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