

Clairity Pro Mobile App User Guide

Welcome to the Acuity Controls Clairity Pro mobile app, optimized to quickly and easily startup nLight® AIR lighting control solutions. Clairity Pro is available for both Android™ and iOS devices. This guide explains all the features and functionality within the Clairity Pro mobile app.

Table of Contents

Startup Process Overview.....	4
Out of Box Functionality.....	4
Download Clairity Pro.....	5
Enable Bluetooth on Your Mobile Device.....	5
Create a User Account.....	6
Forgot my Password.....	6
Sign into the App.....	6
Support.....	7
Saving and Retrieving Site Information.....	7
Recent Sites Screen.....	8
Create a New Site.....	8
Search for an Existing Site.....	8
Edit an Existing Site Name or Address.....	9
Create a New Group.....	9
Search for an Existing Group.....	10
Edit an Existing Group.....	11
Discovering New nLight AIR Devices & Adding Devices to a Group.....	12
Moving Devices on the Grid.....	14
Removing Devices from the Grid.....	14
Commissioning an nLight AIR Adapter.....	15
Associate a Group with an nLight AIR Adapter.....	16
Move a Group from one nLight AIR Adapter to Another.....	16
Making Customer Requests a Reality.....	17
Adding Discovered nLight AIR Devices to a Zone.....	19
Changing which nLight AIR Devices are in an Existing Zone.....	20

Table of Contents, cont'd



Selecting a Behavior for a Zone.....	20
Behaviors Explained.....	21
Calibrating the Daylighting in an Area	22
Disable a Sensor.....	22
Setup Dual Zone Offset	23
Adjust Microphonics Sensitivity.....	23
High End and Low End Trim	24
Group Firmware Updates	25
Individual Device Firmware Updates.....	26
Site Access	27
Sharing Sites	27
Communication Architecture.....	27
Troubleshooting	28
Who to Call if You Have Questions	28
Updating Clarity Pro	29
Multiple Users on One Site.....	29
Reprogramming an Area.....	29
Whole Group Decommissioning.....	30
Physically Removing Equipment.....	30
Definition of Terms.....	31

Startup Process Overview



nLight® AIR consists of fixtures (with and without integrated radios), wall switches, and sensors. There are no communication wires between the devices. Installers and other onsite personnel use the Clarity Pro mobile app to define how these devices interoperate to achieve the result our customers request.

An overview of the startup process we recommend you follow is shown below.

NOTE

A definition of terms section is located near the end of this guide.

1. Install and energize the equipment. You can proceed to the next step once all nLight® AIR equipment has been installed in a given functional area of the building.
2. Download the Clarity Pro app (first time users must follow the steps to create a user account)
3. Create the site
4. Create the first group, identify devices, and associate with the grid
5. Create all zones
6. Set behaviors for each zone
7. Return to step 4 when you're ready to move to the next group

Out of Box Functionality

Prior to programming, the devices will operate in their out of box functionality:

- Indoor fixtures with integrated occupancy sensors - All operate independently, and have occupancy enabled. 7.5 minutes after vacancy, the lights will dim to their dim level. After 2.5 more minutes of no activity, the lights will turn off.
- Switches - Do not control any fixtures
- Other indoor fixtures - will turn on when powered.
- Outdoor fixtures - will turn on at night and turn off in the morning.

Download Clairity Pro



Start by downloading the Clairity Pro mobile app from the Apple store (Clairity Pro). The app is no charge.





Enable Bluetooth on Your Mobile Device

Once the app has downloaded, ensure that Bluetooth® is enabled on mobile device. If you're unsure, follow the steps below for either an Android or iOS device.


NOTE

Disconnect from any existing Bluetooth devices before commissioning.

For **Android** Devices:

1. Open your device's Settings menu. 
2. Under Wireless & Networks, touch Bluetooth.
3. Touch the switch to turn Bluetooth On or Off.
4. A Bluetooth icon  at the top of your screen will indicate when Bluetooth is turned on.

For **iOS** Devices:

1. On your iOS device, tap Settings > Bluetooth
2. Tap the switch to turn Bluetooth On
3. Once complete, look for the Bluetooth icon  in the status bar of your device

Create a User Account



If this is your first time using the Clarity Pro app, follow the steps below to create a new user account.

1. Download the Clarity Pro App
2. Tap on the Sign up link at the bottom of the sign in page
3. Enter your information, including your email address, what you'd like your password to be, first name, last name, and your display name.
4. Once complete, tap on the Send Verification Code button.
5. Check your email.
6. You will receive an email with a verification code.
7. Go back to the app and enter the verification code you received.
8. Click on the Create Button.
9. Sign into the app with your email and password (Figure 01.)

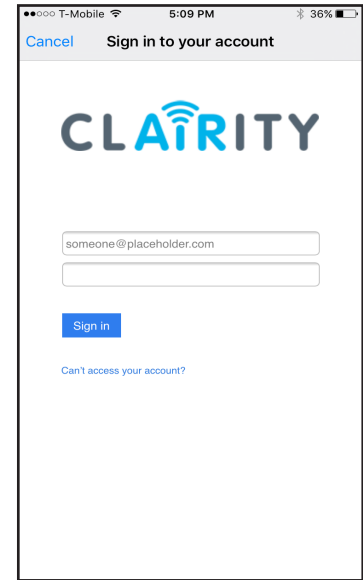


Figure 01: Clarity Pro Sign In

Forgot my Password

If you've forgotten your password, tap on the Can't Access My Account link just below the Sign In button. Follow the steps to reset your password.

Sign into the App

If you already have an account, use your email address and password to sign into Clarity Pro.

Once you've successfully signed in, you'll see the sync screen (Figure 02). While this screen is shown, the application is connecting to the cloud to retrieve your sites.

NOTE

You must have a connection to the Internet to complete this process.

NOTE

Users may only log into one mobile device at a time. If you use the same login on multiple devices simultaneously, the system will not program properly. If you need to use more than one mobile device, ensure each mobile device is using a different user name for the login credentials.

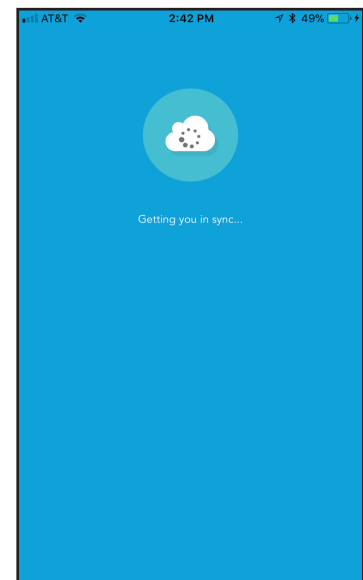


Figure 02: Clarity Sync Screen

Navigate to the support page from the sites screen by tapping on the question mark on the bottom right portion of the screen. The support page (Figure 03) provides contact information for Acuity Brands, a link to an instructional video, a link to a Quick Start Guide, and version information about the Clairity Pro app.

For new users we strongly recommend to view the Quick Start Guide and startup video to become familiar with the process and the app.

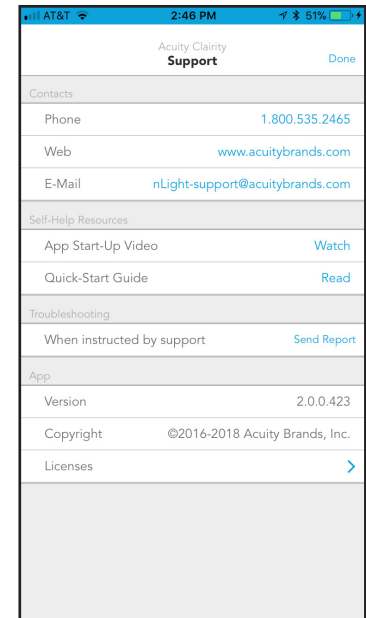


Figure 03: Support Page

Saving and Retrieving Site Information

Saving and retrieving previously saved sites in Clairity Pro is very easy. All the data you enter is saved in cloud-based servers for your future use. If you're not familiar with the cloud, that's OK – we take care of all the technical stuff behind the scenes. Just know that your data is very secure and is ready for your use when you need it. And, best part of the cloud, you can share the site with others (i.e. – others on your staff and/or the end user when the time comes).

As you make changes and proceed through the screens, information is saved either on your mobile device or in the cloud. In the event that you do not have a wireless or cellular connection to the Internet while making changes, no problem. Those changes are held within the app and pushed to the cloud as soon as you have a connection.

NOTE

All programming changes must be made in the immediate proximity to the area you are programming

NOTE

Internet connectivity is no longer required after this step.

Recent Sites Screen



After the app retrieves your sites from the cloud, it will display a list of those available to you. To work on a site, simply tap it in the list. If you need access to a site that you're not seeing in your list, please contact Acuity or contact the individual who has access to the site.

Create a New Site

To create a new site, follow the steps below.

NOTE

If you are adding equipment to an existing installation, you must add the equipment to the existing site if the design calls for the equipment to work together.

1. From the mobile app, navigate to the site screen (Figure 04) and click on the "+" at the bottom of the screen.
2. Enter the information about the site you're creating. The more information you enter, the easier the site will be to search for and find the site in Clarity Pro in the future. Site Name – the name of the site or project; It will typically be the name of the building in which you're working (e.g. – the White House). We recommend that you do not abbreviate to make it easier to find the site in the future. Organization / Company – The startup service provider should select the name of the customer (e.g. – The US Government)

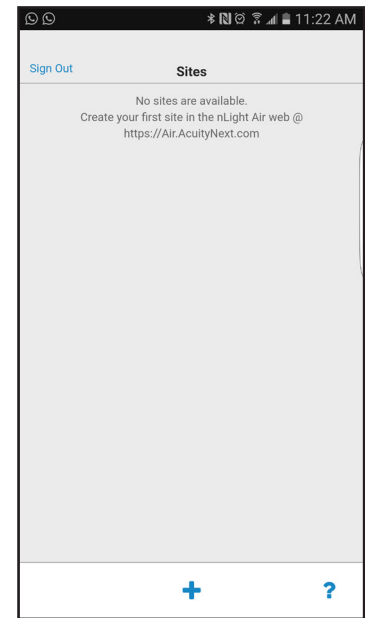


Figure 04: Sites Page - No Available

Search for an Existing Site

The Sites Screen will display all the sites to which the user can access. For some users who visit numerous sites, we have made it Select the site you need to access from the list of sites

NOTE

The search is not case sensitive.

Edit an Existing Site Name or Address



Site details can be edited from the Site Overview screen (Figure 05) by tapping on the information that needs to change, making the change, and tapping done when completed.

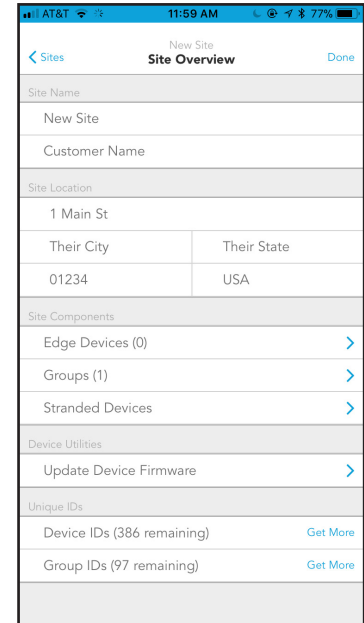


Figure 05: Site Overview

Create a New Group

Typically a group is created for each room. However, a group can not contain more than 127 devices.

To create a new group, follow these steps:

1. Tap on the "+" icon on the Groups screen (Figure 06).
2. Enter a name for the group. The group name is typically going to be the name of the room.
3. Tap the Create button
4. The list of groups will load.
5. Tap the group that you just created and the Group overview screen will load.

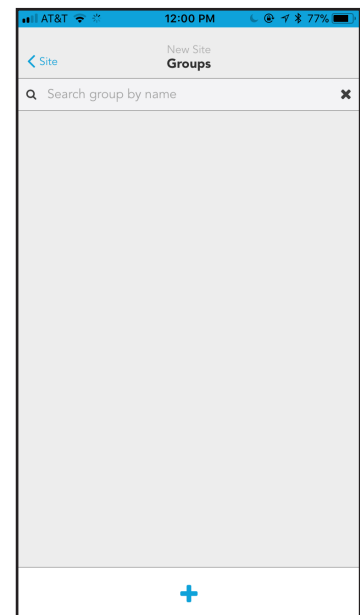


Figure 06: Groups

Create a New Group, cont'd



The Group Overview screen is used as a main landing point in the Clarity Pro app. It is the screen that allows for initial device identification, the creation of zones, and the assignment of behaviors.

To begin identifying devices and adding them to the grid, tap the devices link as shown in Figure 07..

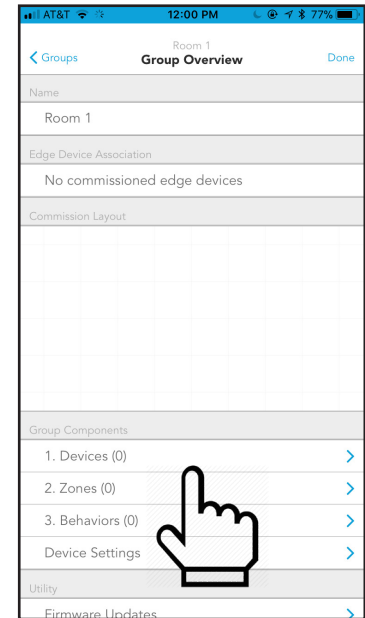


Figure 07: Group Overview

Search for an Existing Group

The Group Screen will display all the existing groups in the site. For large sites with many groups, we have made it easy to search for the group you need. To access the group search feature:

1. Navigate to the Groups Screen.
2. Enter the name of the group in the search bar at the top of the screen.
3. The list of groups that match your search criteria will update automatically
4. Select the group you need to access from the list of groups

NOTE

The search is not case sensitive.

Edit an Existing Group

The Groups screen shows all of the groups within a site.

To edit an existing group, select it from the list of available groups (Figure 08).

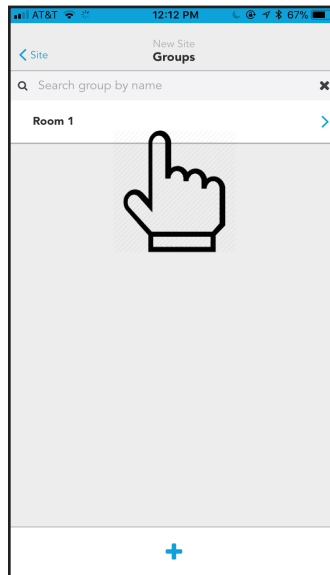


Figure 08: Groups Page

Modify the group details and tap done when completed (Figure 09).

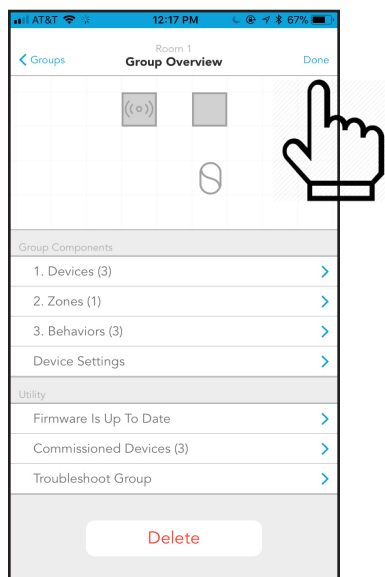


Figure 09: Groups Overview

Discovering New nLight AIR Devices & Adding Devices to a Group



To discover new nLight AIR devices, following the steps below:

1. From the Group Overview screen, tap the Devices link (Figure 10).
2. The Device Layout screen will open. Tap the "+" icon on the bottom left of the grid (Figure 11).
3. Select the type of device to add to the grid (Figure 12).
4. If you tap on the icon that looks like a light bulb, you'll enter a mode that allows you to layout the orientation and count of the fixtures and load controllers in the area. Similarly, if you tap on the switch, you'll enter a mode that allows for the addition of wall switches to the area. Finally, if you tap on sensors, you'll be able to add stand-alone sensors.
5. Once you've selected the type of device to discover, the Identified Devices screen will provide a list of nLight AIR devices, sorted by signal strength. If you do not see any devices in the list, ensure your mobile device's blue-tooth is turned on and make sure your in range of the devices (within about 60ft). Note: the list of devices has two views - those that are available and those that have already been assigned to the grid.
6. To identify a fixture, tap the identify button. Then look at the fixtures.
 - If you do not see one flashing on and off in the area, tap "hide" on that line. Note, it is very possible that you are flashing a fixture in an adjacent room. So, please take care in this identifying process. Hiding the device from the list will make the list much more manageable, especially if there are lots of devices on the site. If you hide the fixture, it will re-appear after you do a refresh of the list of nLight AIR devices.
 - If you see a fixture flashing in the area you are working in, tap the arrow to the right side of the green identify link. Doing so will load the grid so you can place the flashing fixture in its corresponding location.

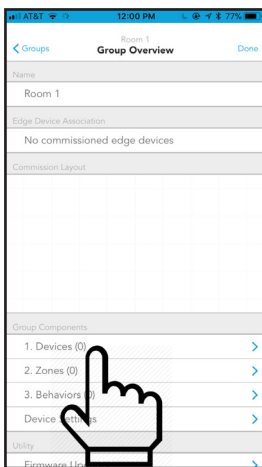


Figure 10: Groups Overview - Devices

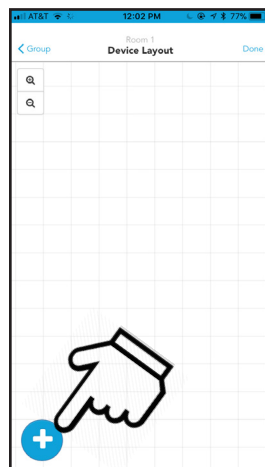


Figure 11: Device Layout

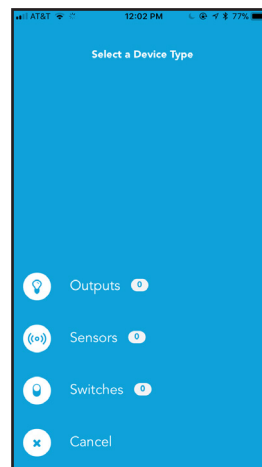


Figure 12: Select Device Type

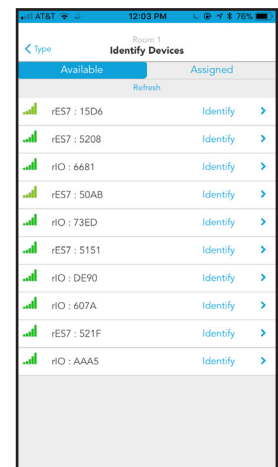


Figure 13: Identify Devices

Discovering New nLight AIR Devices & Adding Devices to a Group - cont'd



- To add the fixture to the grid, tap its relative position on the grid (Figure 14). Once the fixture has been added to the grid, it will not longer appear in the list of available devices. It will be added to the list of assigned devices. Once the fixture is added to the grid, you'll see the actual light level of the fixture change to a low light output. Use this as a way to track how many more fixtures need to be added to the grid from the room you're in.
- Continue this process until all fixtures in the area have been identified and added to the grid.

NOTE

A group may not contain more than 127 devices.

NOTE

If you're working in a large area, you may find it necessary to move around the area to see all the devices. The list of devices will not automatically refresh. If you've moved within the area, we recommend tapping the refresh button. The list will update to show you those devices that have the strongest signal strength for your present location. You can pan around the grid by dragging your finger across the grid. You may also zoom in and zoom out by using the +/- buttons or by pinching or spreading with your fingers on the screen.

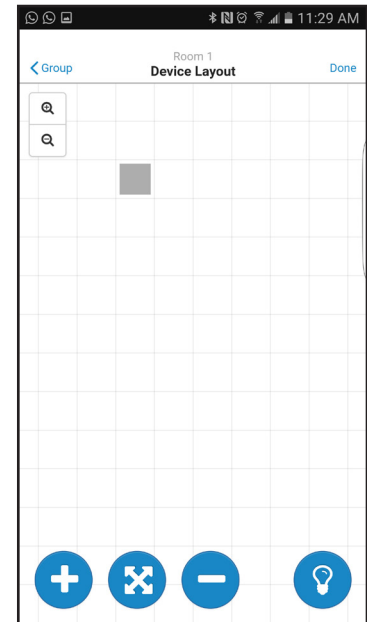
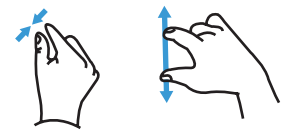


Figure 14: Device Layout - Grid



- Once you're ready to begin discovering wall switches, tap on the "+" button
- Choose the Wall Switch option on the Identify Devices screen.
- Press a button on the actual wall switch – the physical device on the wall. Battery powered devices will not remain in the list. They go to sleep after 1 minute of inactivity. Press any button on the switch to wake the device.
- After the button is pressed, you'll see a wall switch on the device screen.
- Press identify and validate that the LED's on the front of the switch begin flashing.
- Associate that device with its location on the grid by tapping on its relative position in the grid (Figure 15).
- If you have stand-alone sensors in the space, tap on the "+" button.
- Choose the sensor option on the identify devices screen.
- Press identify and validate the LEDs on the sensor blink (note - motion will also cause the sensor to blink. So, stand motionless below the sensor during this step).
- Associate that device with its position on the grid relative to the other devices.

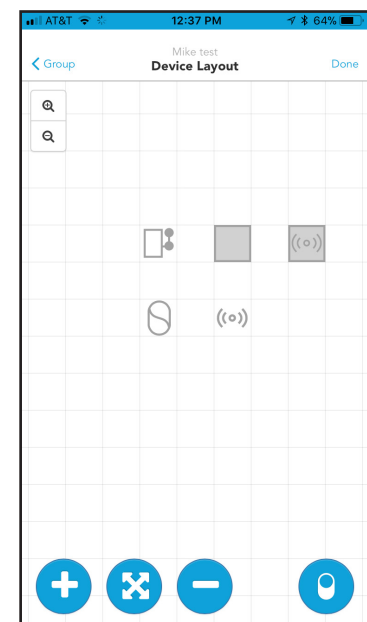


Figure 15: Device Layout - Wall Switch

Moving Devices on the Grid

1. To move a device on the grid, select the arrow button between the plus and minus buttons.
2. Select the device that needs to move by tapping it on the grid.
3. Select a new location for the device by tapping on the grid.

Removing Devices from the Grid

In the event a device needs to be removed from the group (whether it has been fully programmed or not), follow these steps:

1. Ensure you're physically located in the group.
2. Navigate to the group in the app
3. Open the Group Overview screen
4. Select "Devices".
5. From the grid view, select the '-' button at the bottom of the screen.
6. Tap on the device that needs to be removed.

NOTE

You must be located in the vicinity of the devices to perform this action.

Commissioning an nLight Air Adapter



To commission a new nLight AIR adapter, permanently mount the adapter. Do not commission the adapter before it is permanently mounted. Moving it can result in unstable RF connections to devices you've commissioned.

Once the adapter has been mounted and plugged into the Eclipse, allow 2 minutes before adding it to Clarity Pro. For the first 2 minutes, the Adapter is determining the clearest communication frequency to use. If you try to commission it to quickly after power on, Clarity Pro will provide you with a warning.

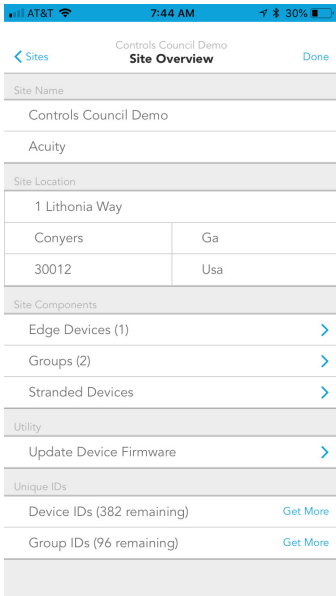


Figure 16: Site Overview

1. Navigate to the Site Overview screen (Figure 16).
2. Select Edge Devices (Figure 17).
3. Walk within about 30 feet of the Adapter you need to add.
4. Tap on the + to add a new Adapter.
5. Select the adapter from the list of available adapters.
6. Unless otherwise instructed by Technical Support, keep automatic mode enabled, and tap "Commission" (Figure 18).

If the project has more than one adapter, it is strongly recommended that you name the adapters. To do so, tap on it and rename it in Clarity Pro.

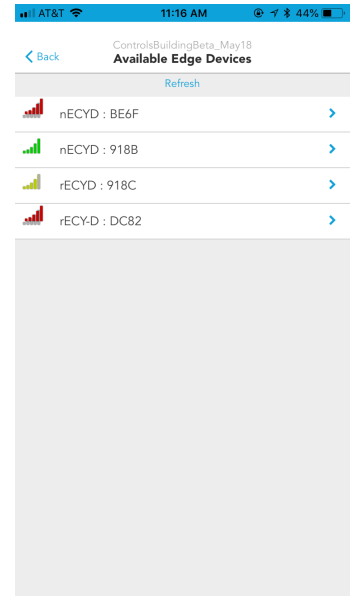


Figure 17: Available Edge Devices

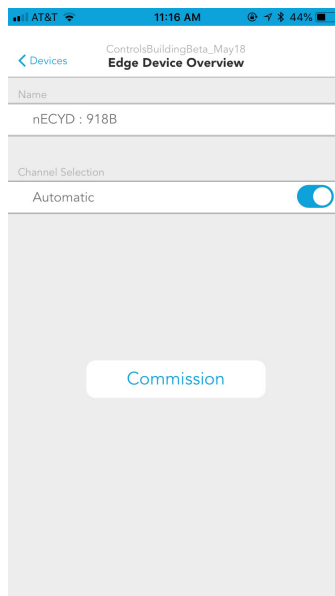


Figure 18: Edge Device Overview

Associate a Group with an nLight AIR Adapter



To associate an existing group with the nLight AIR Adapter, navigate to the Group Overview Screen. Walk to the physical space that correlates with the group. Tap on the “Edge Device Selector” option. Pick the appropriate Adapter from the list. Tap on the “Assign” button. Clarity Pro will make the appropriate RF Channel changes so the devices can communicate with the Adapter you’ve chosen.

Clarity Pro will also instruct the devices to attempt to communicate with the Adapter. The app will tell you once this process is complete. Once complete, the group will show as a networked group on the group screen with an icon next to the name. It will also be accessible in the Sensorview software.

Clarity Pro will show you any devices that are unable to communicate to the Adapter. You may retry. But, if the devices are unable to reach the adapter, please choose a different one on the project.

Move a Group from one nLight AIR Adapter to another

To move a group from one nLight AIR Adapter to another, navigate to the Group Overview Screen. Walk to the physical space that correlates with the group. Tap on “Networked Edge Device” and tap on the “Unassign” button. Once complete, the group will no longer be associated with that Adapter.

Now follow the steps to Associate a Group with the nLight AIR Adapter.

Making Customer Requests a Reality



In this section, we'll review how to take customer requests and create them in Clarity by creating zones and groups. To illustrate, we'll take an open office example that utilizes all the behaviors – on/off by switch, occupancy, and daylighting.

Consider Figure 19. In this space, there are 16 fixtures and two wall switches. The design calls for one switch to operate 8 of the fixtures and the other switch to operate the other 8 fixtures. The entire space should turn on and off with occupancy. And, the 4 fixtures along the window should dim with the presence of natural light.

We have started by identifying all the fixtures and adding them to the grid in a similar fashion to the physical layout (Figure 20).

Next, we have added the two switches to the grid (Figure 21). Note, the Clarity app will recognize the type of switch. So, we didn't need to indicate the number of buttons on the switches we've added.

Next, we'll start creating zones of control for all the devices that need to work together. So, first we'll select the switch and the top 8 fixtures by tapping on them in the grid (Figure 22).

- Legend:
- - Occupancy Controlled
 - - Daylighting Controlled
 - - Switch Controlled

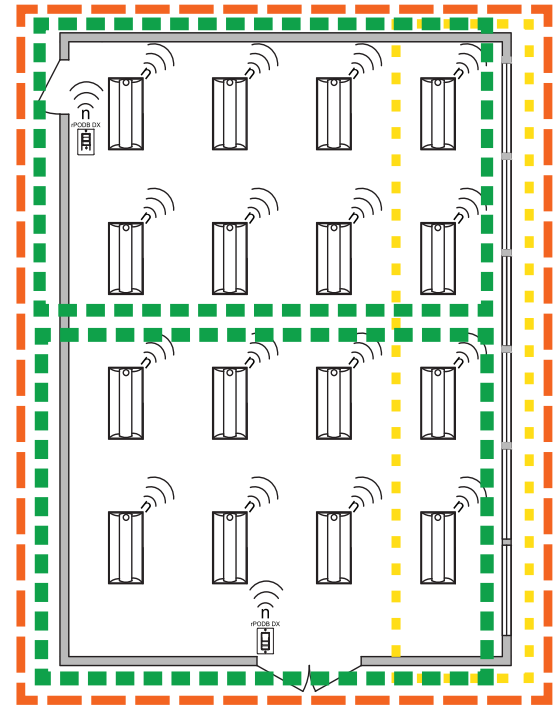


Figure 19: Layout Example

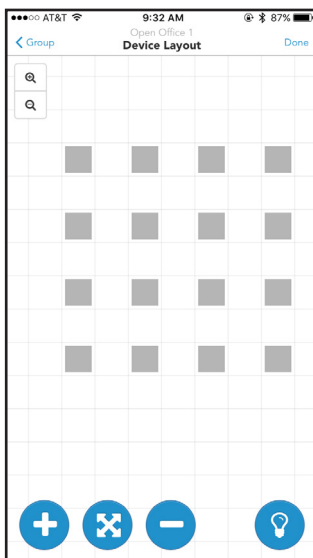


Figure 20: Layout On Grid

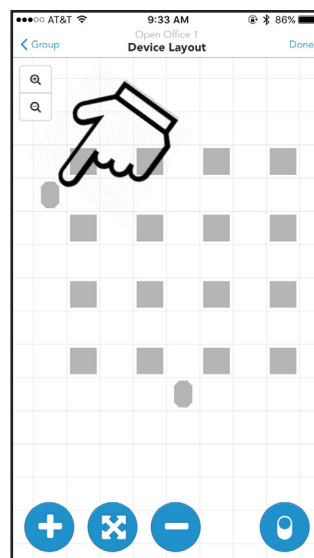


Figure 21: Layout with Switches

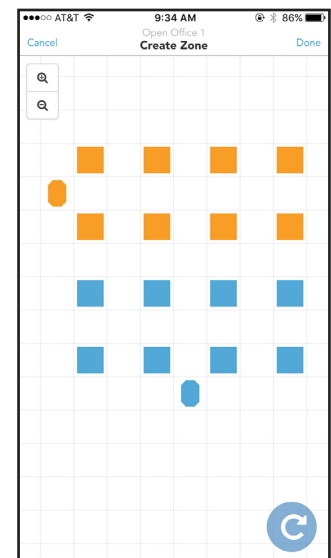


Figure 22: Creating Zones

Making Customer Requests a Reality- cont'd



We'll follow this process for each collection of devices that need to operate together. We've created the other switch zone (Figure 23), the occupancy zone (Figure 24), and daylighting zone (Figure 25). Note how in these images, the devices show as a lighter orange, indicating that the devices are already in one zone.

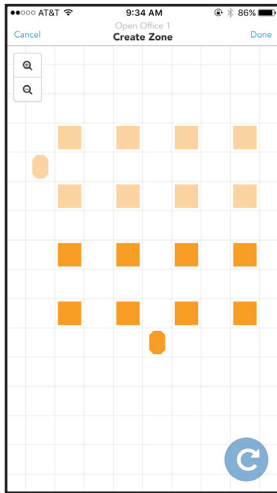


Figure 23: Switch Zone

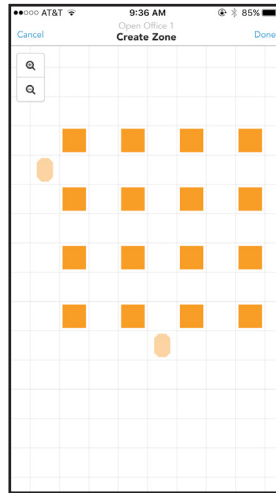


Figure 24: Occupancy Zone

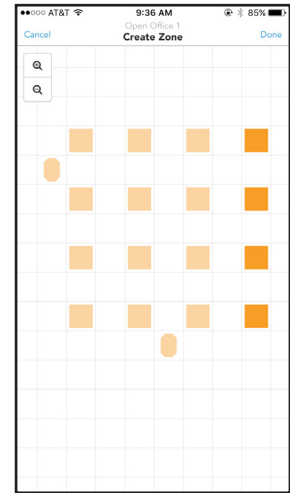


Figure 25: Daylighting Zone

We can assign each zone a behavior from the Group Overview screen. Select a zone to assign a behavior and then select one or more behavior for each zone (Figure 26). After we select on/off by switch for the first two zones, we apply an occupancy behavior for the zone with all the fixtures. We can choose the dim level and timeouts as discussed on [page 21 \(Behaviors Explained\)](#).

Finally, we assign a daylighting behavior to our zone of fixtures along the windows.

Once finished, tap save and the programming is pushed to the devices. After it is done, a screen like Figure 27 is displayed showing that the push of the settings was successful.

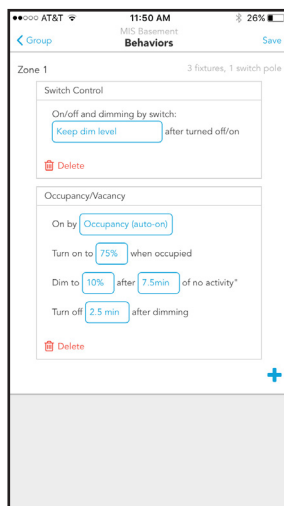


Figure 26: Zone Behavior

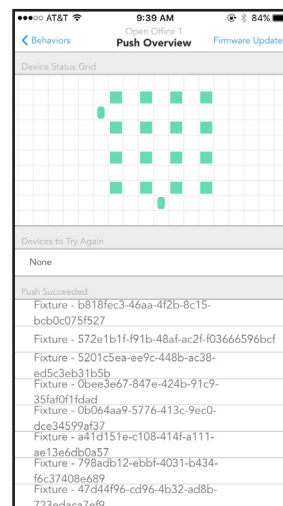


Figure 27: Push Overview

Adding Discovered nLight AIR Devices to a Zone



To add devices to an nLight AIR zone, follow the steps below.

1. Navigate to the Group Overview screen
2. Select the "Zones" from the Group Components section of the screen.
3. If this is the first zone in the group, your screen will appear like Figure 28.
4. Tap the "+" on the bottom of the screen.
5. The grid view will load. To add devices to the zone, tap them on the grid. As devices are added to the zone, they will turn orange (Figure 29). Those not in the zone will remain blue.
6. Once all devices that will operate together have been selected, tap next.
7. Once you return to the zones screen, your new zone and any others you create will appear in a list (Figure 30).

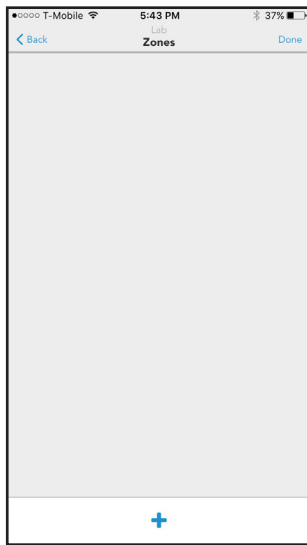


Figure 28: Zones

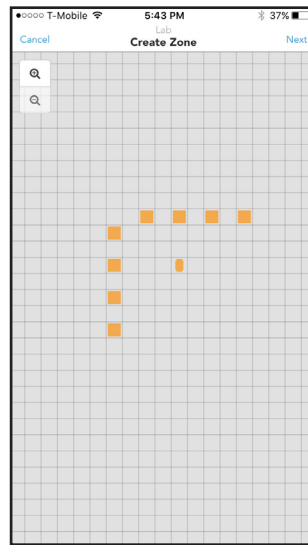


Figure 29 Create Zones

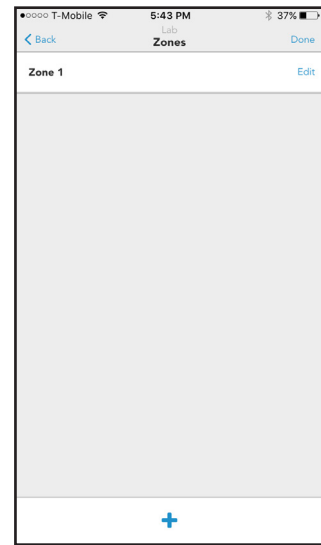


Figure 30: Zones List

NOTE

A zone will not do anything until a behavior has been assigned.

NOTE

Fixtures and power packs can be in multiple zones. Wall switches and sensors can only be in one zone.

Changing which nLight AIR Devices are in Modifying an Existing Zone



If you're modifying an existing zone, navigate to the group that contains the zone. From the list of existing zones, select the zone you want to modify by tapping on it in the list (Figure 31).

After you've selected it, you can add additional devices to the zone or remove devices from the zone, all by tapping on the grid.

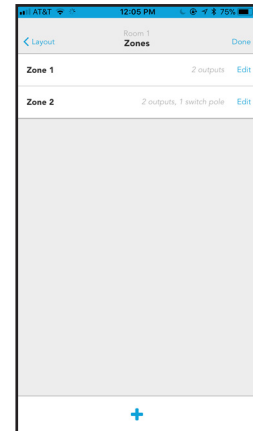


Figure 31: Modify Zones

Selecting a Behavior for a Zone

To select a behavior for a zone, follow the steps below:

1. Navigate to the Group Overview screen (Figure 32) for the group you're modifying.
2. Select Behaviors (Figure 33)
3. Choose a behavior for each zone.
4. Once the behavior has been selected, you may fine tune some of the parameters.

NOTE

The available parameters vary based upon the behavior selected.

5. Once complete, tap on the save icon. This will result in the programming being sent to the devices via Bluetooth (Figure 34)

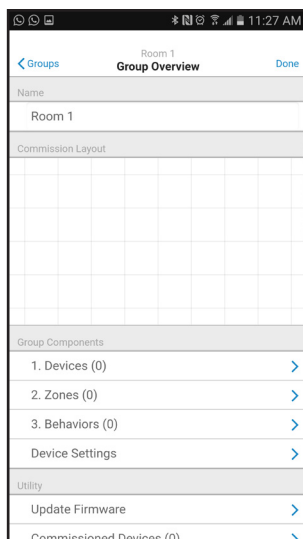


Figure 32: Group Overview

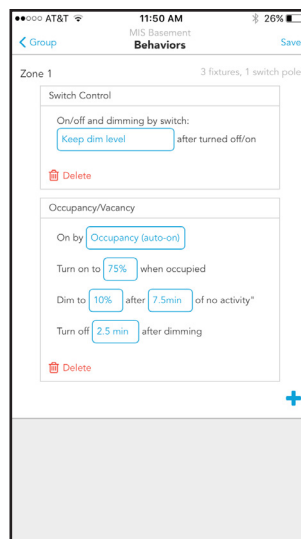


Figure 33: Behaviors

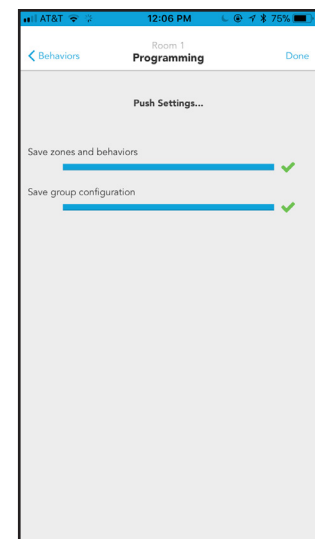


Figure 34: Programming

Behaviors Explained



Below is a summary of all behaviors and how they can be configured. Please note that a zone may have one or more behaviors.

1. On / Off by switch

- Can be applied to any zone that has at least one fixture and one switch.
- You may select if the light comes on to full bright or if it turns on to the prior dim level when the on button is pressed.
- If combined with daylighting turning the lights on will make the fixtures go to their day lighting level. If the switch has raise and lower buttons, the user may raise the light level above the daylighting level.
- If combined with occupancy the switch will override the occupancy behavior for 1 minute

2. Occupancy

- Can be applied to any zone with at least 1 sensor.
- Configurable parameters include
 1. On by
 - Occupancy (Auto on) - lights will turn on when at least 1 sensor in the zone sees motion. Lights will dim down after "X" minutes of no activity.
 - Vacancy (On by Switch) - Lights must be turned on via a switch. Lights will dim down after "X" minutes of no activity.
 2. Turn on to xx% when occupied
 3. Dim to % - The level the lights will dim to after "X" minutes of no activity.
 4. After "X" minutes of no activity - The time delay between the sensors no longer sensing motion and the lights dimming to the dim to %.
 5. Turn off time - The time delay between the dim to light level and the lights turning off. Total time between no motion and the lights turning off is the sum of the turn off time and the dim after time.
- Immediately after sending programming values to the fixtures, the fixtures require a few minutes to synchronize before following the programmed time outs.

NOTE

After programming, devices must see motion. Then, all devices must NOT see motion for 3 minutes + the device's specified timeout period of no activity.

3. Daylighting

- Can be applied to any zone with at least 1 sensor.
- Must be calibrated after programming has been sent to the fixtures. This can be done by navigating to the group overview screen, selecting device settings, and selecting photosensor calibration.

NOTE

Users must select either 'individual' or 'common' photosensor. Individual photosensors can only be used if every fixture in the zone has a sensor. It will result in an inconsistent lighting look on the ceiling, but it may be more consistent on the work surface. Common photosensor will result in all the fixtures following one sensor which the user will select. This option will result in the common look at the ceiling.

Calibrating the Daylighting in an Area



To calibrate daylighting, follow the steps below:

1. Navigate to the Group.
2. From device settings choose photosensor calibration (Figure 35).
3. Manually adjust the set-point or choose to auto-calibrate the photosensor.

NOTE

You need to program a daylighting behavior for the daylighting zone

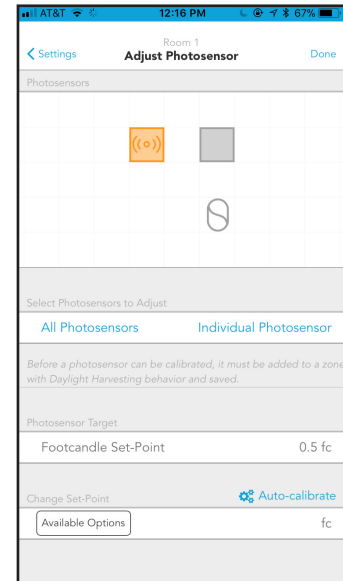


Figure 35: Photocell Calibration

Disable a Sensor

To optimize occupancy performance, sometimes it is necessary to disable sensors in fixtures. It may be necessary to do this to the fixture close to a doorway so it does not detect hallway traffic or in cases where sensors are very close to HVAC ducts.

To enable or disable particular sensors, navigate to the Group Overview Screen and choose the Devices Settings option (Figure 36). Tap on the "Occupancy Sensing" option (Figure 37). Select the sensor on the grid, disable the sensor, and tap save.

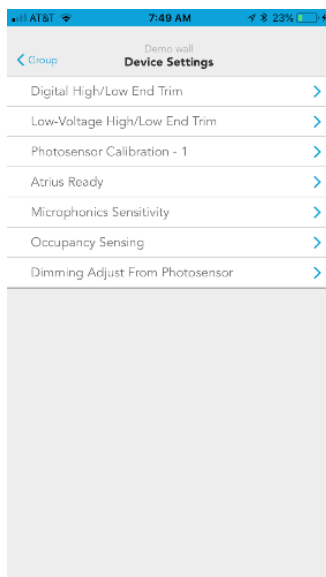


Figure 36: Device Settings

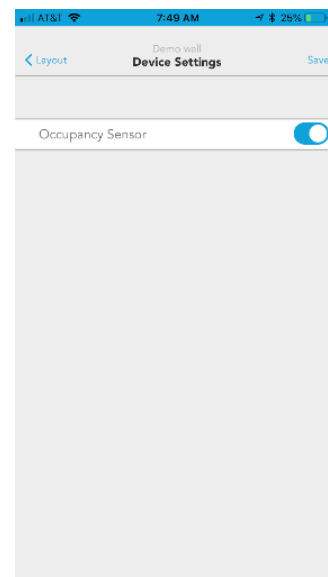


Figure 37: Occupancy Sensing

Setup Dual Zone Offset (Dimming Adjustment From Photosensor)



Dual Zone Offset is a feature that allows users to dim a second row of fixtures differently than the row closest to the windows in cases when only one sensor is being used. This feature is not needed in cases when each fixture has a sensor embedded.

To enable this feature, add all the fixtures that need to respond to daylight to one control zone. From the Group Overview Screen, choose the Devices Settings option. Tap on the “Dimming Adjustment from Photosensor” option (Figure 38).

Select the devices that should dim less than the other by tapping on the grid. Note, you may select more than one device at a time. Tap on the offset % value to make an adjustment and tap “Save”. Note, a value less than 100% will cause the fixtures selected to dim less than those not selected.

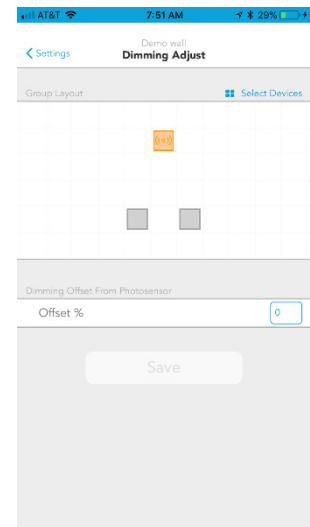


Figure 38: Dimming Adjust

Adjust Microphonics Sensitivity

To optimize occupancy performance, you have the ability to adjust the microphonics sensitivity (for devices that have this capability).

To adjust Microphonics Sensitivity values, navigate to the Group Overview Screen and choose the Devices Settings option (Figure 39). Tap on the “Microphonics Sensitivity” option (Figure 40). Select the sensor on the grid, adjust the setting from the drop down selector, and tap save.

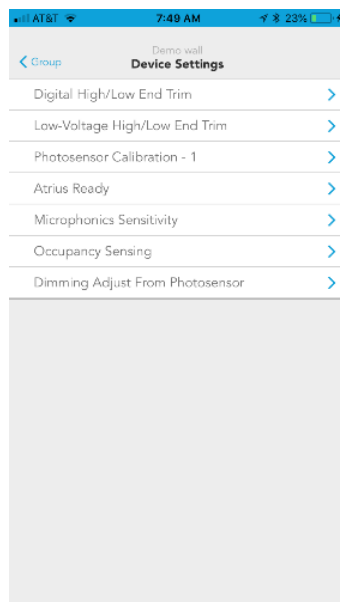


Figure 39: Device Settings

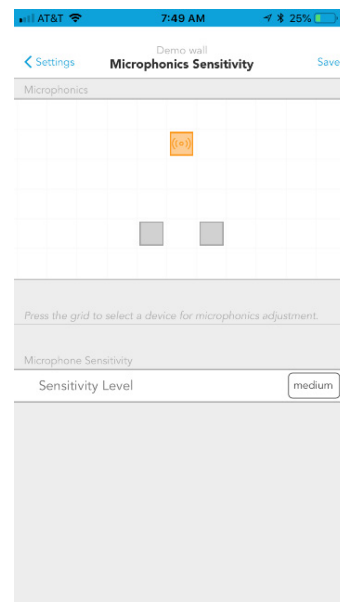


Figure 40: Microphonics Sensitivity

Set Hi/Low End Trim for Power Packs, rSBORs, and rSDGRs



To adjust the maximum or minimum light level an output device can achieve, you can adjust the Hi/Low End Trim.

To do so, navigate to the Group Overview Screen and choose the Devices Settings option (Figure 39). For 0-10V devices (such as the rPP20 Power Pack, rSDGR, and rSBOR), tap the “Low Voltage High/Low End Trim” option (Figure 41).

Tap on the devices you wish to change, use the sliders to make the adjustment, and tap save.

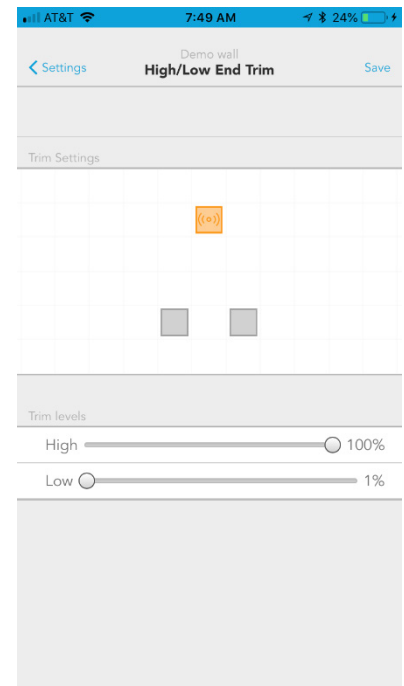


Figure 41: Hi/Low Trim Settings

Set Hi/Low End trim for rES7 and rIO-Based Fixtures

To adjust the maximum or minimum light level an output device can achieve, you can adjust the Hi/Low End Trim.

To do so, navigate to the Group Overview Screen and choose the Devices Settings option. For rES7 and rIO-Based fixtures, tap the “Digital High/Low End Trim” option.

Tap on the devices you wish to change, use the sliders to make the adjustment, and tap save.

Group Firmware Updates



Group Updates - The Clarity Pro mobile app is able to update the firmware in the nLight AIR devices. This should only be done when instructed by Acuity Tech Support or upon receiving a notification from the mobile app.

To do so, ensure you're physically located in range of the group to be updated. Navigate to the appropriate group in the Clarity Pro mobile app. Near the bottom of the group overview screen (Figure 42), tap "Update Firmware". The Firmware update screen (Figure 43) will show the latest version of firmware available and a summary of the firmware versions of the devices in the group. To update all devices, tap on the "Update All" button.

NOTE

This process may take 2 - 5 minutes. You may leave the area when the progress bar reaches 100%. Clarity Pro will tell you when you can move on to new areas.

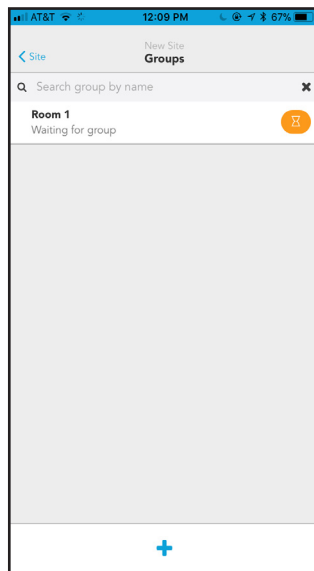


Figure 42: Group Overview

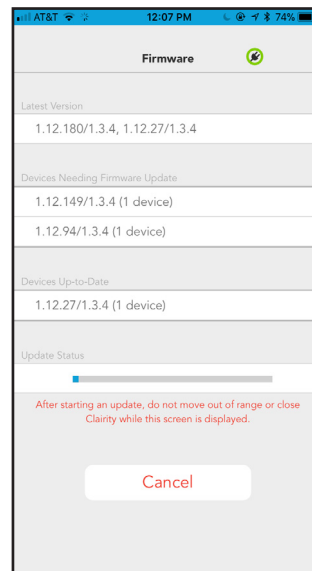


Figure 43: Group Firmware Update

Individual Device Firmware Updates



To update an individual device before it is commissioned, navigate to the site overview page (Figure 44) and tap on "Update Device Firmware."

From the list of devices, identify the device you want to update by using the Identify link (Figure 45). Tap update to start the firmware update process.

NOTE

You must remain within 60 feet of the device you're updating for the duration of the update, which may be 3-4 minutes.

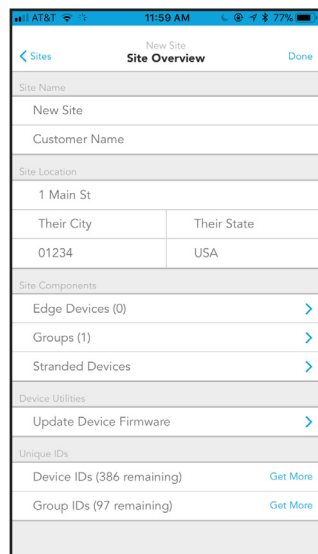


Figure 44: Site Overview

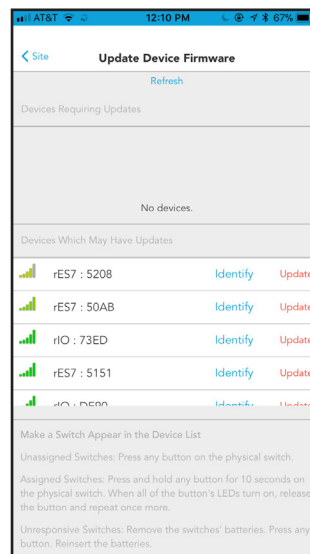


Figure 45: Update Firmware

For any site you create, you will have access to that site upon subsequent logins. However, you will not be able to see sites you did not create until access is granted to you. Please contact the original site creator to request access or reach out to Acuity. If you're not sure who created the site for the equipment you need to program, please reach out to Acuity Technical Support.

Sharing Sites

Sites may be shared with colleagues or customers. To do so, follow these steps:

1. In your browser, go to air.acuitynext.com (Figure 46)
2. When you log in, you'll see your sites.
3. Click on the particular site you wish to share.
4. Add the user with whom you'd like to share the site.
5. Once complete, that user will be able to access the site in Clarity Pro.

NOTE

You'll be unable to share a site with someone who has not gone through the process of creating a Clarity account.

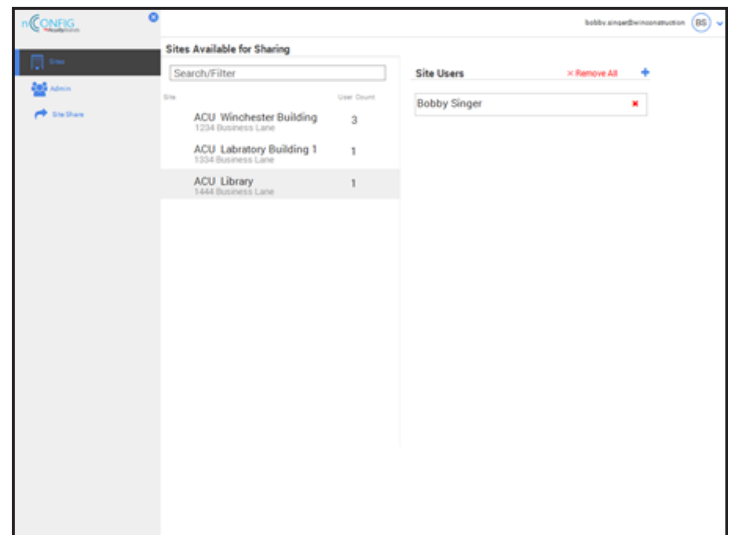


Figure 46: nLight AIR Website

Communication Architecture

The communication between the app and the devices behaves differently before and after the initial grouping process.

Prior to devices being added to a group:

- Before devices are added to a group, the app communicates directly to each device via Bluetooth.

After devices have been added to a group:

- After a devices have been added to a group, the app communicates with only one device (called the group monitor) within the group. That device then communicates to all the others on a different frequency.
- While the Bluetooth communication distance is approximately 100ft, it is possible the group monitor is out of range of the Bluetooth communication based on where you are standing within the area (especially for very large areas). If the Clarity app fails to connect to the Group Monitor, the application will display a grid representation of the group and indicate which device to move toward to facilitate communications.

If you're having trouble with a group, tap troubleshoot group at the bottom of the group overview screen (Figure 47). Clarity Pro will ask the group to perform a health check. Follow the steps the app asks you to complete. Each device will check in with the app and report the results (Figure 48). A successful test will verify inter-device communication and bluetooth connectivity to the mobile app. If a device is not found, ensure that it is physically installed and powered.



Figure 47: Troubleshooting

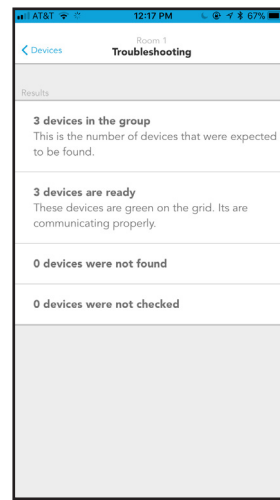


Figure 48: Troubleshooting Results

Who to Call if You Have Questions

For support with your nLight AIR controls system and the Clarity Pro mobile app, please contact Acuity Technical Support at 1-800-535-2465

Updating Clarity Pro



In the event that a new version of Clarity Pro is developed, you'll receive a notification through the app store that a new version has been made available. We recommend reading through the release notes associated with the new version so you can learn of the new features and capabilities of the new version prior to downloading it.

Multiple Users on One Site

More than one service provider may use the Clarity app at one time. This is most common in the case of large sites with relatively short construction cycles. Each user can run through the startup process (create groups, create zones, set behaviors). We have a few recommendations for how to maximize their efficiency.

- Any user who has access to the site can grant access to others.
- We suggest each resource work in a different portion of the building. The distance between resources minimizes the likelihood that devices will be flashed in someone else's area. Resources cannot perform startup activities within the same group.
- In the event that simultaneous users are in a building that has poor cellular coverage, we recommend regular communication with your colleagues to ensure each knows who is starting up which portion of the building, as changes they make on their mobile device will not show on your mobile device until those changes can be pushed to the cloud through a cellular or wireless connection.

Reprogramming an Area

If changes need to be made to a given area, navigate to the group that corresponds with that area. The same process is followed for button reprogramming, occupancy sensor adjustments, and photosensor recalibration.

- On the Group Overview screen, tap on "Behaviors"
- Adjust the behavior accordingly. The behavior screen allows for the adjustment of occupancy parameters and switch settings.
- Tap save and the programming will be pushed to the nLight AIR devices.

Whole Group Decommissioning



Whole group decommissioning is a process that will destroy all programming, zoning, and grouping. Essentially the fixtures will return to their out of box default state. Whole group decommissioning should **NOT** be used to modify zoning or programming parameters.

Whole group decommissioning should rarely be used. However, there are some circumstances where it makes sense. These include renovation of a previously commissioned nLight AIR space.

To decommission a group:

1. Navigate to the group overview screen.
2. Click on the commissioned devices link. The commissioned devices screen will load.
3. To proceed with decommissioning, tap the decommission all link.

NOTE

You must be located in the vicinity of the devices to perform this action.

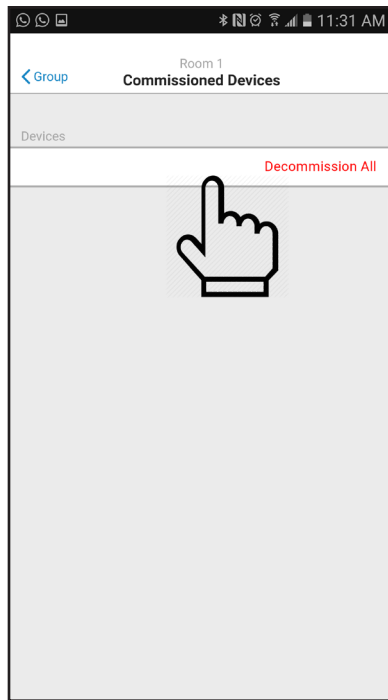


Figure 49: Group Overview

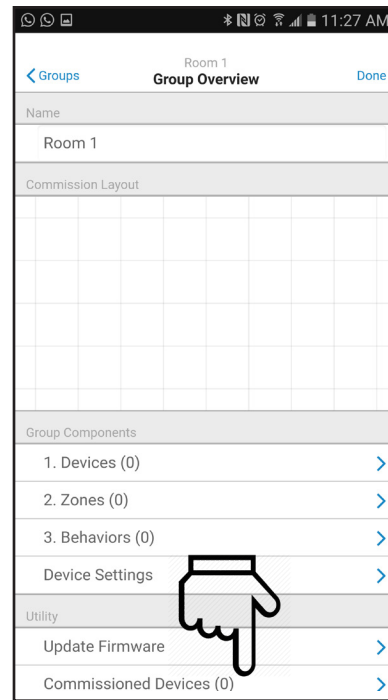


Figure 50: Commissioned Devices

Physically Removing Equipment

In the event that equipment needs to be physically removed from an area, you must first follow the “Removing Devices from the Grid” process described earlier in this document. Failing to do so will result in the inability to reprogram the device that has been removed.

Definition of Terms



Site	An installation of lighting control equipment for one customer at one location
Account	One or more sites that are all affiliated with one end user.
Area	A descriptor for a physical geographical area, within a customer site, that has some common use or purpose
Group	All the devices within one area
Identify	A process by which a device provides some visual feedback (e.g. - the flashing of a fixture) so it's location can be determined.
Zone	A collection of lighting fixtures expected to work together - resulting from a logical grouping
Behavior	The manner in which a collection of devices (zone) operate. Some people refer to this as the sequence of operation.
Fixture	A piece of equipment that outputs light
Switch	A piece of equipment that, is typically mounted on a wall, that a user may interact with to control lights in their vicinity
Device	A generic term used to describe the individual units that comprise a system.
Mobile Device	A personal handheld communication device that provides connectivity to wifi, cellular, or bluetooth
Startup	The act of troubleshooting and programming a new installation of equipment
Photosensor	A device that detects the presence of light.
Daylighting	A lighting control strategy that accounts for the presence of natural light and changes the artificial light to achieve a desired light level
Occupancy Sensor	A control device that detects motion

Audit Log



Initial Release	08-08-16
Updated to include features supported in version 1.2.1.62 of the Clarity mobile app	11-22-16
Updated to include features supported in version 1.3.0 of the Clarity mobile app	02-21-17
Updated to include features supported in version 1.4.0 of the Clarity mobile app	03/22/17
Updated to include features supported in version 1.4.0 of the Clarity mobile app	06/12/17
Updated to include features supported in version 1.5.2.5 of the Clarity Pro mobile app	03/14/18
Updated to include additional programming options	07/22/18