

OPERATION AND MAINTENANCE MANUAL

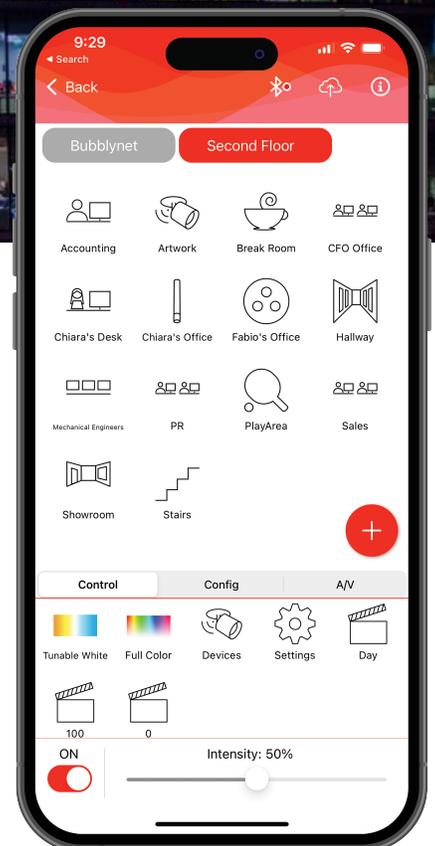


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1. STARTING

1.1 Introduction

1.1.1 BubblyNet systems

A BubblyNet system is an end-to-end wireless control which doesn't require to have hubs or other hardware to operate.

Every devices has most of the functions needed to operate the network embedded into a microchip that allows it to be self-sufficient and to operate independently of other devices. This allows for a BubblyNet system to be robust, secure and self-healing.

1.1.2 How to use this guide

Most of the instructions contained in this manual are in the form of videos.

If you are using an electronic copy of this manual, click on the video image and your browser will take you to a YouTube video you will be able to watch.

If you are using a hard copy of this manual, scan the QR code by the image of the video and your mobile device will take you to the YouTube video explaining the topic you are interested with.

1.2 Devices Installation

1.2.1 Location

With the documentation project, you should have received a copy of the device locations similar to this:



It is very important to install the devices on the establish location as this location will allow for the proper mesh network communication. A change in location could generate network malfunctioning.

Devices should be installed at a maximum distance of 60ft. from the closest device.

Signal strength decreases significantly as architectural barriers are interposed between devices.

Here is an example of how a standard wireless message loses connectivity range in the presence of architectural barriers:

Barrier	Range
Open air	200ft
Drywall	80ft
Cinder Block	70ft
Brick	50ft
Concrete	20ft

The worst obstacle for connectivity is metal. It is recommended to position the BubbyNet devices away from metal partitions, I-beams and metal in general.

1.2.2 Wiring

All devices have a label with a QR code. Scan the QR code to access on the web all information about the device including wiring diagrams and installation instructions.



1.2.3 Antenna

Most BubbyNet devices have an external antenna. It is very important to keep the antenna outside the box when the wireless devices are enclosed in a metal enclosure or j-box.

1.3 THE APP

1.3.1 Download

The BubbyNet App is available on both Google Play and the App Store.

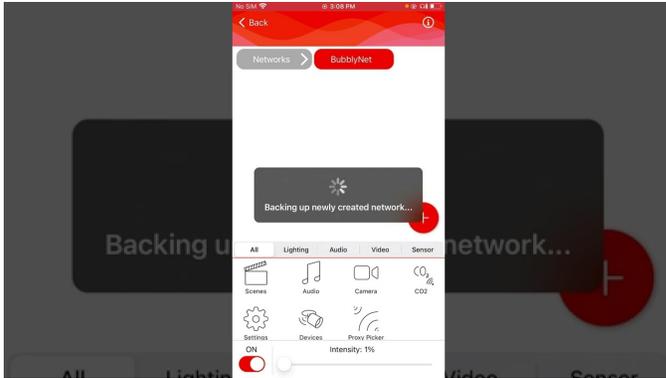


1.3.2 Create an Account

Create an account with an email address you will be able to monitor. This is the email the system will use to send alerts and recommendations about your system. This is also the account with which you will be able to access your Cloud account.

1.3.3 Create a project/network

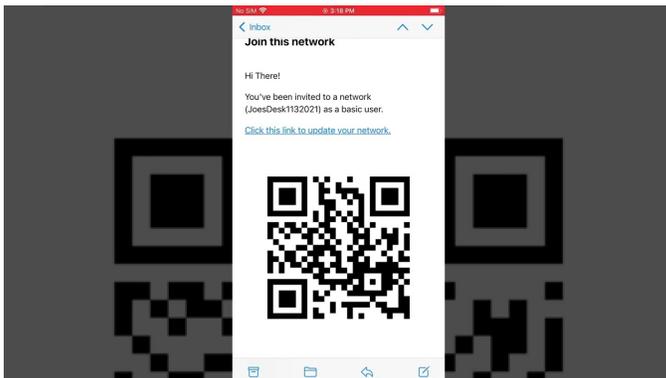
Follow the steps in this video: CREATE A NETWORK



1.3.4 Import a network

In case the network was already created by somebody else, in order to control and configure it, you will need to import it into your App.

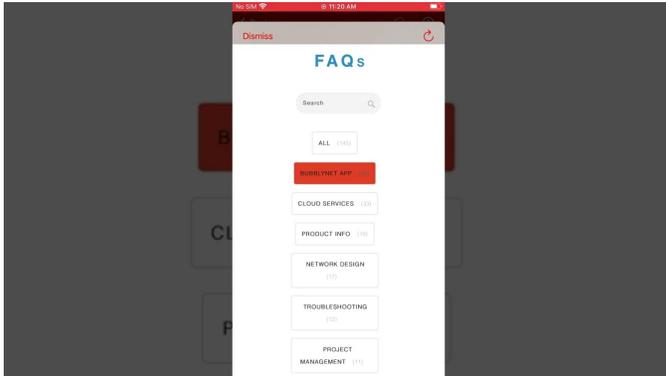
Follow the steps in this video: HOW DO I IMPORT AN EXISTING NETWORK



1.3.5 App on-line support

On every App page there is an info icon on the top right corner that give you access to quick tips, videos and the Troubleshooter.

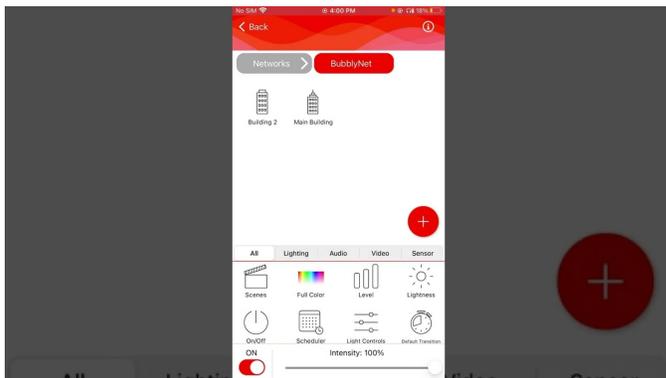
Follow the steps of this video: HOW DO I USE THE INFO BUTTON



1.3.6 Network navigation

The navigation through the different areas of a project is very simple and intuitive.

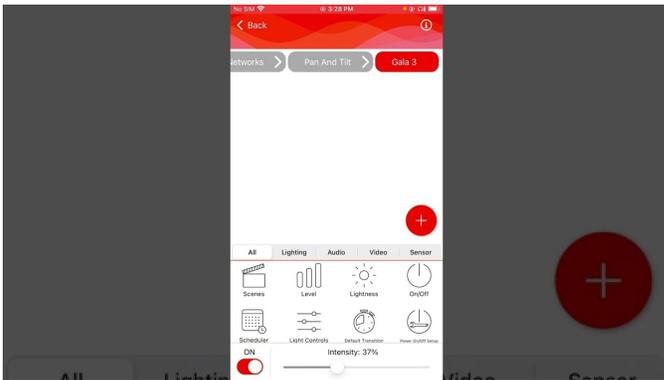
Follow the steps on this video: HOW DO I NAVIGATE A NETWORK



1.3.7 Basic Area controls

At the bottom of the navigation page, there are some basic controls that quickly allow you to control the area selected.

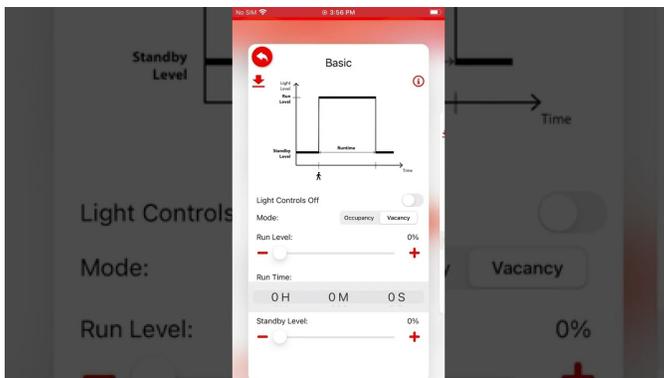
Follow the steps on this video: BASIC AREA CONTROLS



1.3.8 User levels

The App let's you access areas and functions based on the user level you have been granted access to.

Follow the steps on this video: HOW DO USER LEVELS WORK



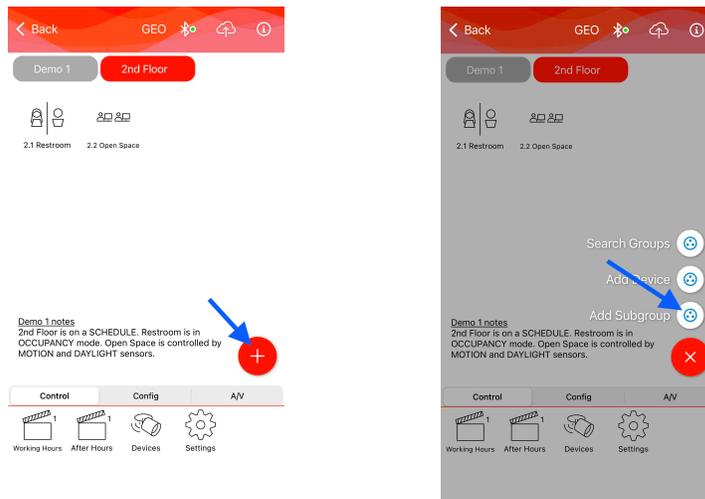
2. COMMISSIONING

WARNING: DO NOT USE multiple commissioning devices simultaneously on the project. Use only one device at a time and make sure changes are uploaded to the cloud before using a different device.

2.1 Project/network design

The first step in the commissioning of a project is to design the project within the App.

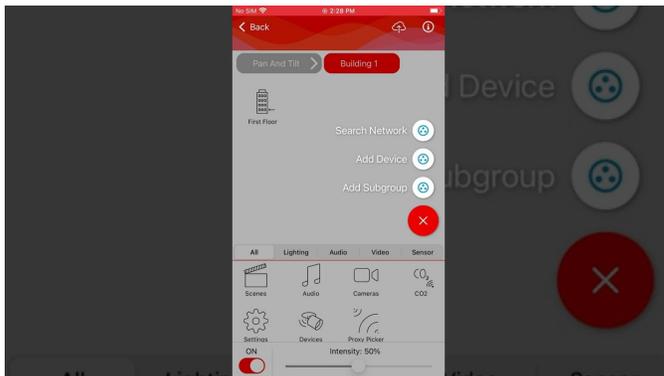
Click on the orange menu button at the bottom right of groups/areas/zones visualization area.



Add subgroups to the network and to other groups until your project is FULLY DESIGNED. This step is important to properly complete so as to avoid for later reconfiguration and re-addressing of devices to different groups.

Groups can be more easily identified with a particular icon. To change the icon of a group, tap and hold on the group and tap Edit on the pop-up.

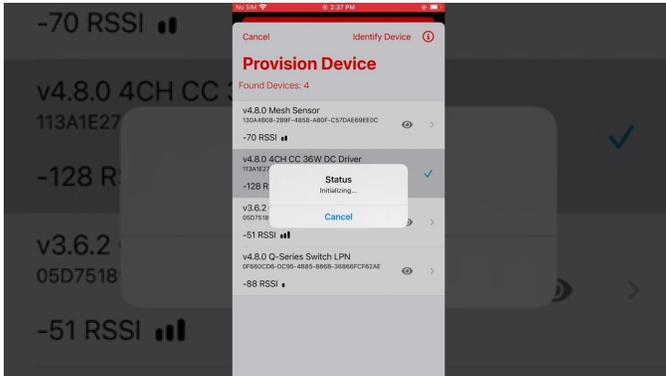
Follow the steps on this video for more: [HOW DO I CREATE A GROUP](#)



2.2 Add a Controller or Driver

The first devices you want to commission are controllers and drivers. To make the identification easier, turn ON the breakers of the project one at the time so as to have only the devices powered by the breaker appear on your scanner.

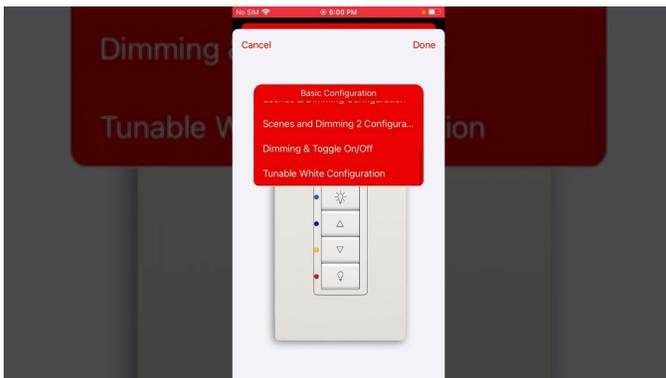
Follow the steps in this video: [HOW DO I COMMISSION A DRIVER](#)



2.3 Add a switch

Next commission the switches on your group.

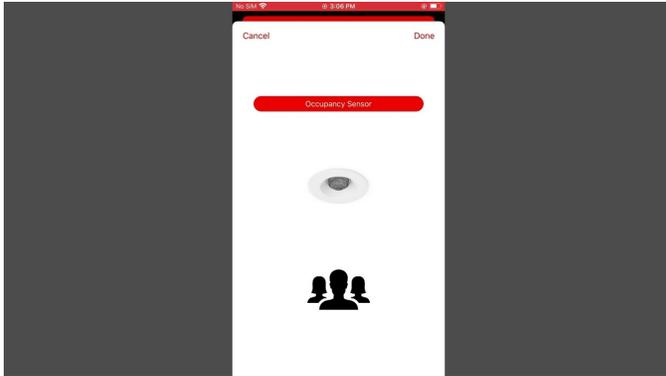
Follow the steps in this video: [COMMISSION Q SERIES](#)



2.4 Add a motion sensor

Next commission the motion sensors on your group.

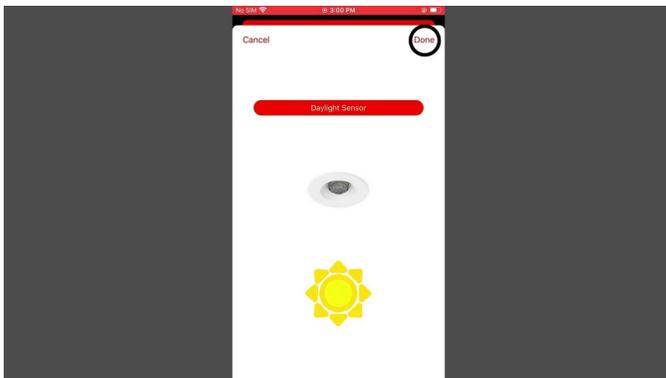
Follow the steps in this video: [HOW DO I CONFIGURE AN OCCUPANCY SENSOR?](#)



2.5 Add a daylight sensor

Next commission the daylight sensors on your group.

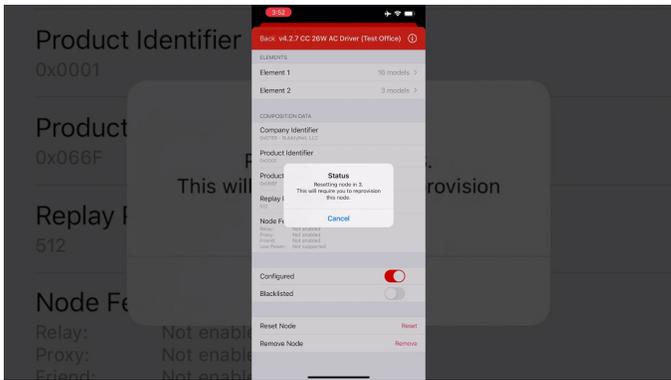
Follow the steps in this video: [HOW DO I CONFIGURE A DAYLIGHT SENSOR?](#)



2.6 Removing devices

You may need to remove devices from your network; it is easy to do.

Follow the steps in this video: [REMOVING A DEVICE](#)



2.7 Moving devices

You may need to move a device from one group to another.

Follow the steps in this video: [HOW DO I MOVE A DEVICE TO A NEW GROUP](#)

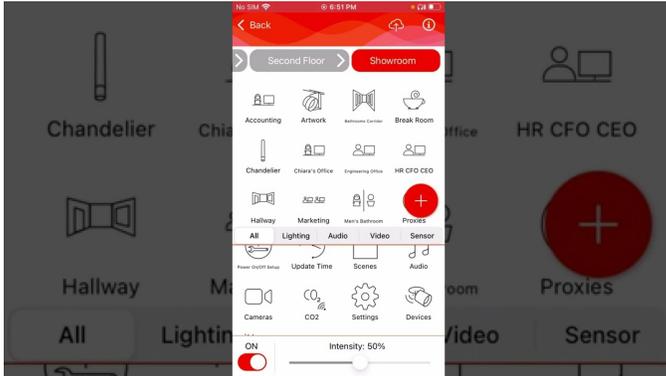


3. PROGRAMMING

3.1 Programming scenes

Creating a new scene is very simple.

Follow the steps in this video: CREATE A SCENE



3.2 Programming a Schedule

There can be multiple schedules with or without exceptions.

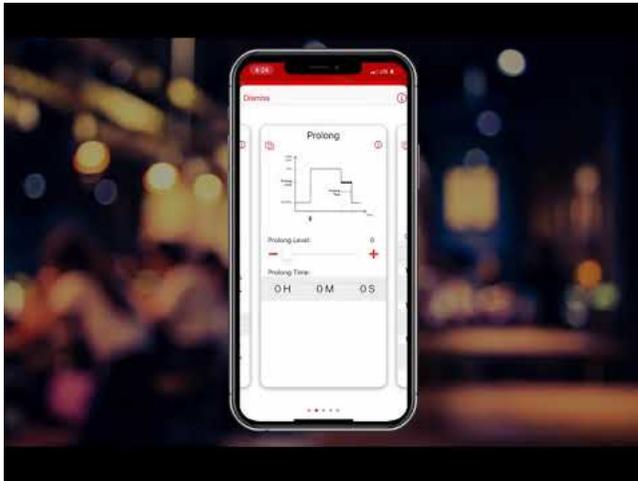
Follow the steps on this video: CREATE A SCHEDULE



3.3 Programming sensors

Sensors have a great variety of parameters to personalize your unique experience.

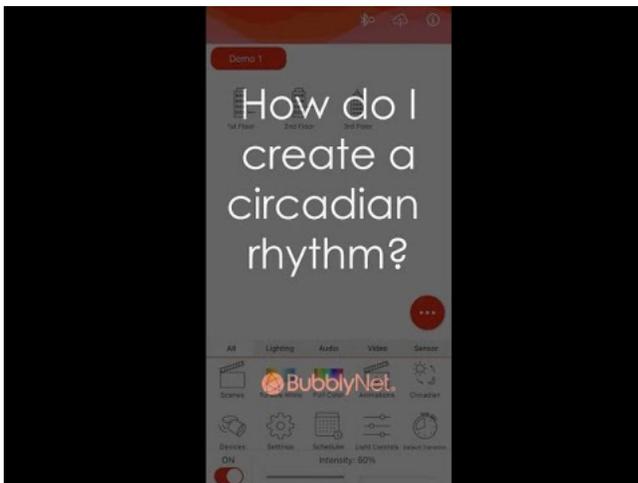
Follow the steps in this video: HOW DO I PROGRAM A SENSOR OPERATION



3.4 Programming Circadian Lighting

When using Tunable White or Full Spectrum luminaires, circadian lighting enhances the guest experience and improves well-being.

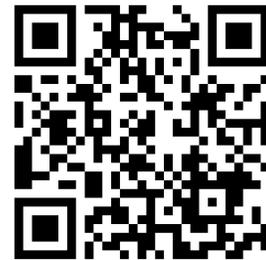
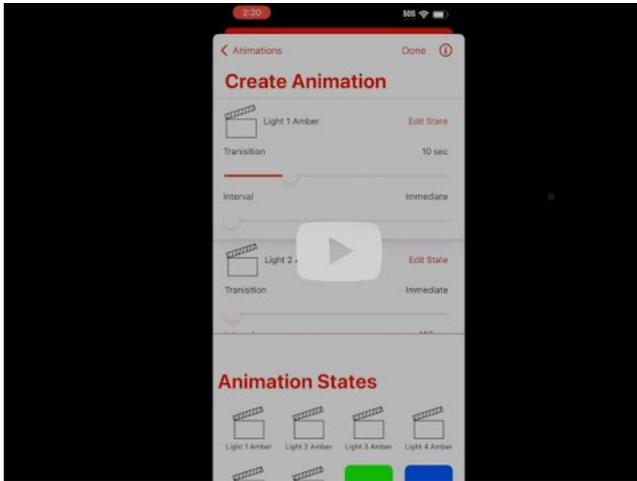
Follow the step in this video: HOW DO I CREATE A CIRCADIAN RHYTHM



3.5 Programming Animations

Animations give to your project a new dynamic experience and set the system for interactive lighting

Follow the steps in this video: HOW DO I CREATE ANIMATIONS

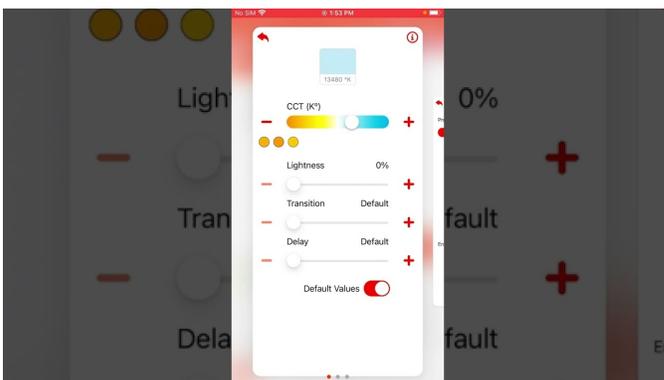


4. CONTROL

4.1 Tunable White control

There are unique controls and functionalities for your Tunable White luminaires.

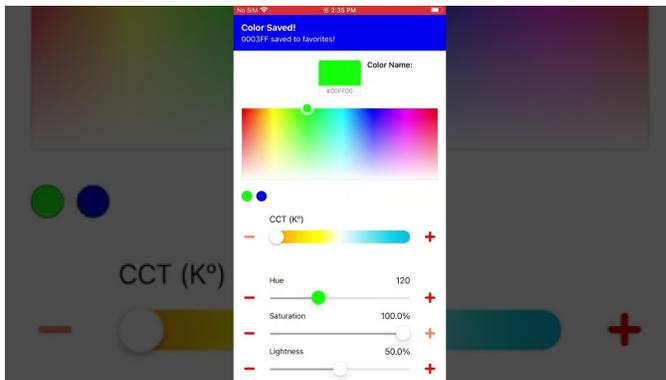
Follow the steps on this video: HOW DO I CONTROL TUNABLE WHITE



4.2 RGBW control

There are many functions available when controlling RGBW luminaires

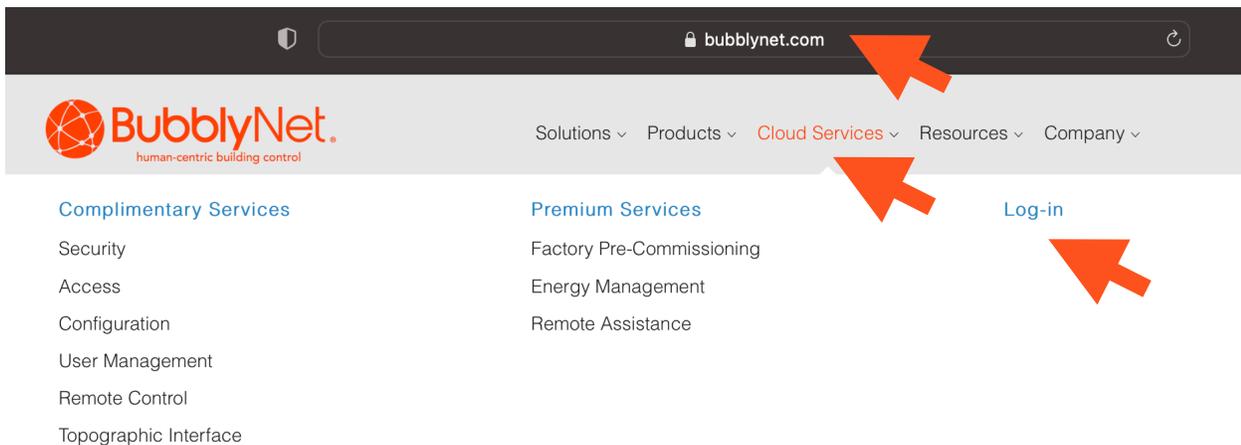
Follow the steps on this video: HOW DO I USE THE COLOR PICKER



5. CLOUD SERVICES

Included with your purchase, we included a series of complimentary Cloud functionalities.

To access them, go to www.bubblynet.com, click on Cloud Services and Log-in with the user name and password you set with your App

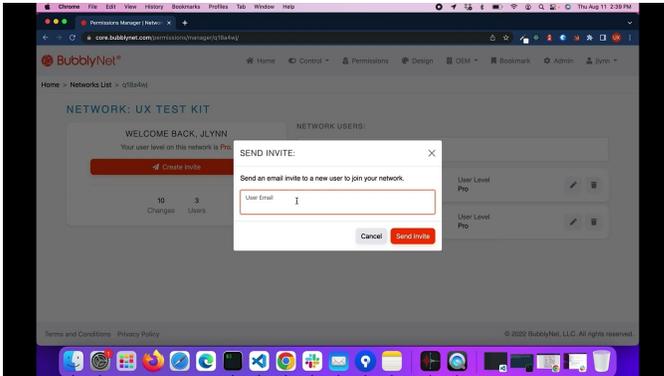


5.1 Cloud User Management

5.1.1 Invite to the network

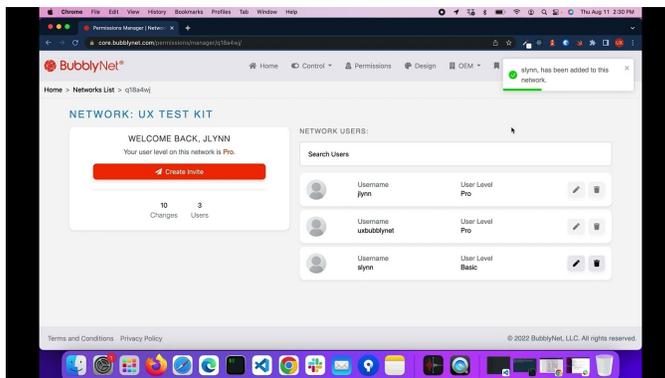
You can invite a new user to your network directly from Cloud Services

Follow the steps on this video: HOW DO I EMAIL AN INVITATION TO A NETWORK

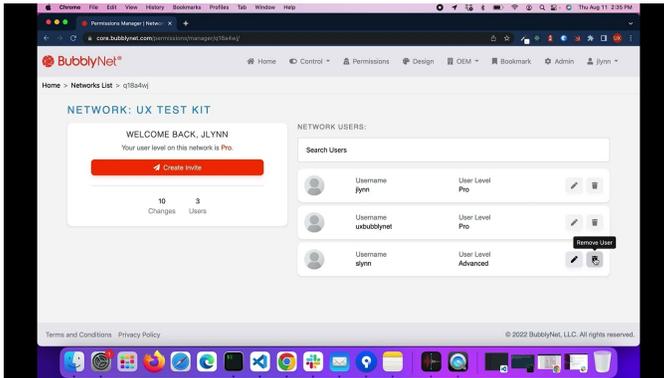


5.1.2 Add or Remove a User

Follow the steps on this video: HOW DO I ADD A USER TO MY NETWORK?

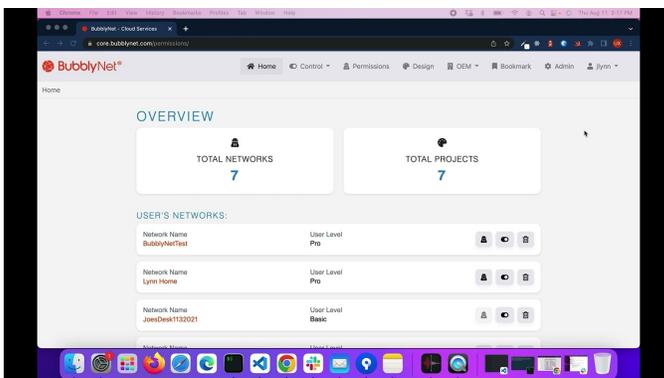


Follow the steps on this video: HOW DO I REMOVE A USER FROM MY NETWORK?



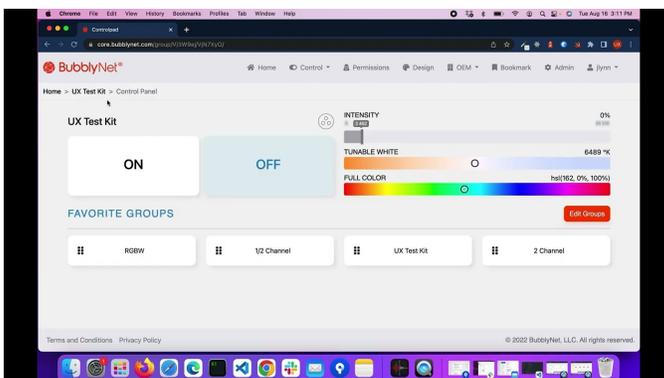
5.1.3 Change Users' Permission Level

Follow the steps on this video: HOW DO I CHANGE USER'S PERMISSION LEVEL ON MY NETWORK

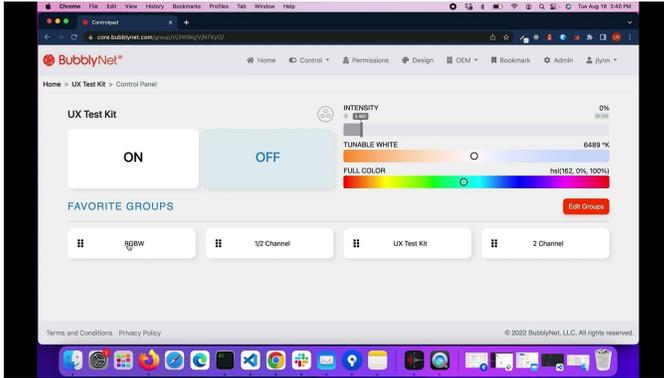


5.1.4 Groups Control

Follow the steps on this video: HOW DO I FIND A GROUP

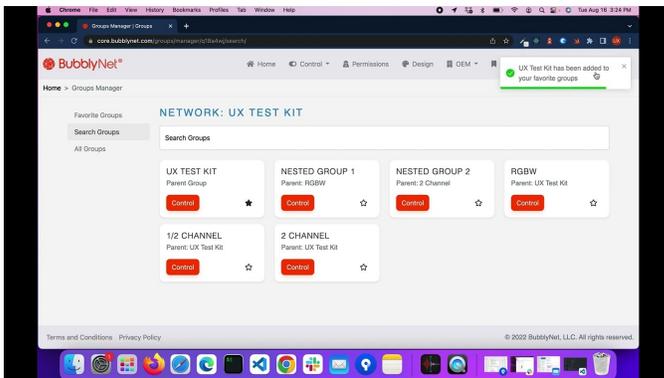


Follow the steps on this video: HOW DO I CONTROL MY GROUPS



5.1.5 Managing Favorites

Follow the steps in this video: HOW DO I ADD OR REMOVE FAVORITES

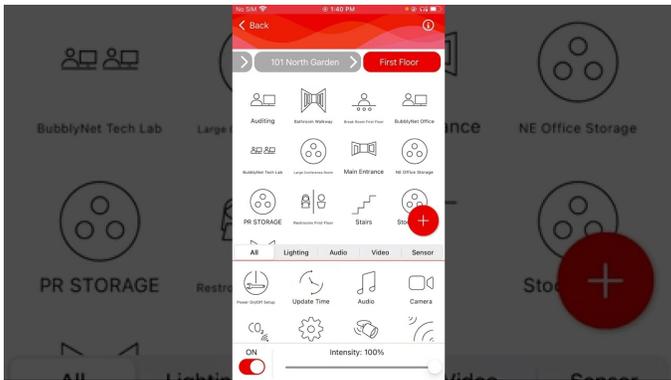


6. MAINTENANCE

6.1 Time update on the App

Your network could have lost the proper time because of a consistent loss of power or because of your local Daylight Saving zone. With your App you can sync the network time to the time on your mobile device.

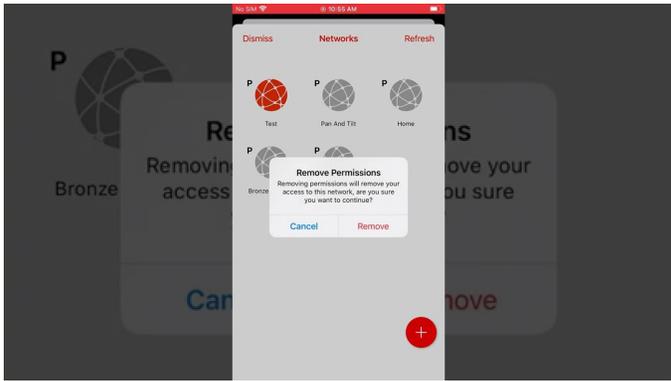
Follow the steps on this video: HOW DO I MANUALLY SYNC TIME?



6.2 Managing multiple networks

You can use the App to control multiple networks.

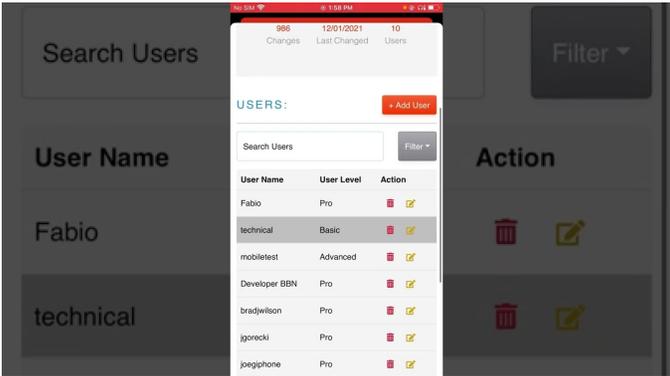
Follow the steps on this video: HOW DO I MANAGE A NETWORK



6.3 Managing users

You can add, remove or give different access levels to different users directly from you mobile device.

Follow the steps on this video: HOW DO I MANAGE USERS OF THE NETWORK

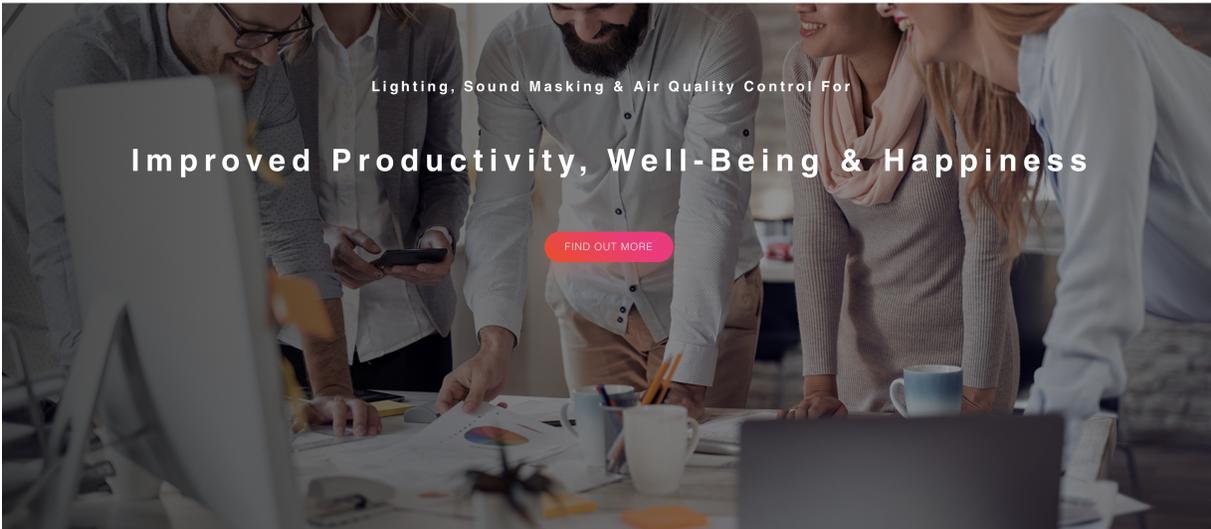
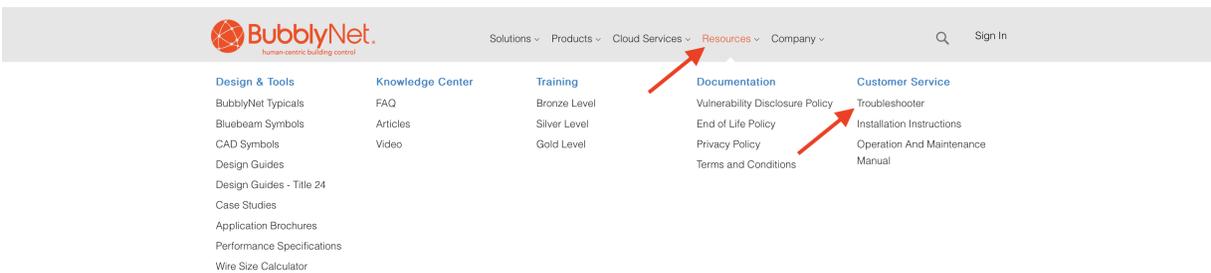


7. TROUBLESHOOTING

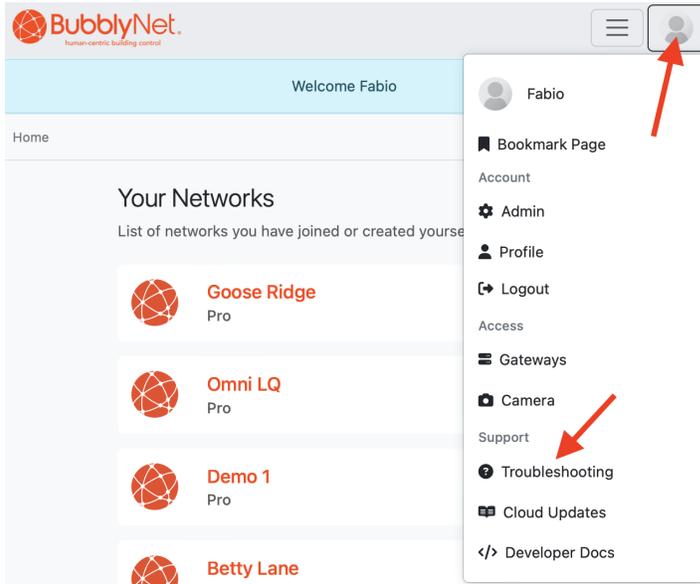
Access the Troubleshooter:



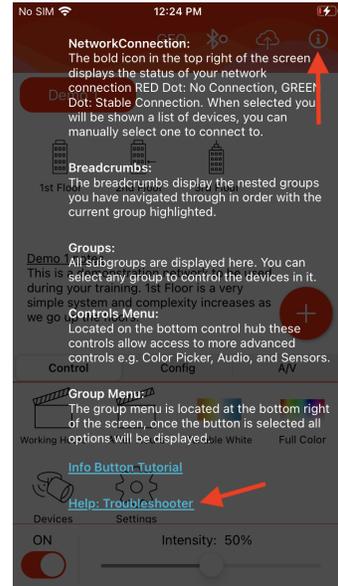
On the website



On the touchscreen



On the App



Follow troubleshooting steps and instructions; these will solve 98% of the possible issues. If troubleshooter does not solve, then an email from the Troubleshooter to Customer Service can be sent. Customer Service requests from the Troubleshooter take priority over all calls as they automatically include the chronology of all the test made prior to the request and speed-up Customer Service's problem resolution by 6X.

Support Ticket

Please submit a support ticket with details on your problem or [go back to guides](#).

Subject:
Support Ticket:

Email:
abc@xyz.com

Phone number:

Comment:

[Send Ticket](#)