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1.0 INTRODUCTION TO AUDACY® WIRELESS LIGHTING CONTROLS

The Audacy Wireless Controls system from IDEAL can bring advanced solutions to any commercial lighting application. Its simple installation, configuration, and operation allows any user to achieve significant energy savings without the usual complications.

The Audacy Wireless Controls system brings you tried-and-true lighting control strategies, including:

- Occupancy
- Vacancy
- Daylight Harvesting
- Scheduling
- Scene Control
- Remote System Control
- Automatic Demand Response (ADR)

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The sensors and switches are completely wireless devices and have a 25-year battery life. Sleek and stylish, they can be placed anywhere you need coverage and are easily added, configured, or modified.

Audacy Luminaire Controllers are capable of controlling 0-10V dimming LED drivers and fluorescent ballasts, ELV or MLV/line dimming luminaires.

Tying everything together is audacycontrols.com. Accessed through a web browser or mobile device, you can control your lighting network from anywhere with an Internet connection. Controlling lights, making configuration changes, or providing energy consumption reports are all part of audacycontrols.com. Just like the rest of the system, audacycontrols.com is designed to be simple, intuitive, and user-friendly, while providing the maximum amount of flexibility and control.

CURRENT AUDACY SYSTEM ARCHITECTURE

The system revolves around wireless Luminaire Controllers, wireless sensors and switches, and wireless Gateways that can interface with Building Automation Systems using industry-standard protocols such as BACnet, Lonworks, and Modbus.
2.0 GATEWAY - PROXY - AUDACY®

SERVER COMMUNICATIONS OVERVIEW

To enable the Audacy Wireless Controls system for website control and configuration or a mobile (Android and iOS) app, a proxy is required to provide a secure connection to the Audacy Server. The proxy is a reverse type of server and runs behind the user’s firewall. The proxy will manage requests from the Internet toward the Gateways located on the user’s internal network. It secures, routes and manages the traffic from the Internet to the user’s internal network where the Audacy Gateways reside. It protects the internal network from externally perpetrated attacks. The proxy will only allow the Audacy Server to access and manage the Audacy Gateways located on the internal network.

The proxy will require the user’s firewall to allow outgoing messages on port 993 from the proxy machine’s IP address. The connection between the proxy and the Audacy server is 2048-bit SSL encrypted. An Audacy Proxy Kit is available as a standalone device or the proxy can be installed on Windows, Linux or Mac devices.

HARDWARE & SOFTWARE REQUIREMENTS

- Proxy Kit or ALWAYS ON PC or virtual machine to install proxy SW
- Windows 7 or better (2008+)
- 2 Ghz CPU
- 2 GB RAM
- 10Mbps network Interface
- Login information for proxy installation
- Extracted file from proxy download
- Gateway Installation information:
  1. IP address (static or DHCP)
  2. Netmask
  3. IP Gateway
  4. DNS addresses

Proxy server must be on same network as Audacy Gateways so the proxy is able to connect to Gateways over network. Gateways and proxy server machine must be behind the customer firewall to provide for adequate security (recommendation: an isolated VLAN should be set up for Audacy equipment).

Open Port 993 to to IP address 54.172.131.103 for outgoing connections from the IP address of the Proxy Kit or PC/virtual machine on which the proxy is running. The Audacy Proxy Kit also utilizes Port 443 to periodically check for proxy updates.
3.0 SYSTEM SETUP

3.1 MUST READ: SYSTEM INSTALLATION GUIDELINES

For the recommended process for installing the physical components of the Audacy Wireless Controls system, follow the installation instructions for the products listed on audacywireless.com/support. The following points are important to remember during the installation process:

1. All Audacy devices have an associated barcode. These barcodes are located on the back of all devices, and are used to recognize a device on audacycontrols.com. It is important to keep track of where these devices are installed so that audacycontrols.com is an accurate reflection of the actual installation of the system.

2. Before electronically tracking devices, YOU MUST INSTALL THE PROXY (FOR THE GATEWAY), SETUP THE GATEWAY AND CREATE ROOMS (sections 3.1, 3.2 and 5.0 of this manual). The scanning feature on the Audacy mobile app automatically adds devices into rooms that exist. Devices cannot be added prior to room creation.

3. The bar codes can also be entered into the system via the scanning feature on the Audacy mobile app.

### 3.1.1 SERIAL NUMBER DEVICE TRACKING REQUIREMENT

It is highly recommended to keep close track of all device barcodes. Instructions for ways to track are listed here:

- Remove the 1 tear-away stickers that contain the serial number (see image to the right).
- Apply these to a drawing of the space containing the fixture or a tracking sheet to identify the serial number and its location in the room (tracking sheet available in Appendix, p. 47).
- If these tear away labels are missing, please write down the serial number of the Luminaire Controller in a safe place.
- These serial numbers are required in order to have a fully functioning Audacy Wireless Controls system.
3.2 PROXY SOFTWARE INSTALLATION

Audacycontrols.com utilizes a software application known as a proxy. This software is preinstalled on the Audacy Proxy Kit (PROXY-RP01) or can be installed on a physical or virtual machine. Both methods require a configuration file to be downloaded to be utilized by the proxy software. If utilizing a Proxy Kit, please follow the installation instructions provided with the Proxy Kit.

To install the proxy on the host server:

1. Verify that you have obtained the Admin login information from Audacy Customer Support; if you have not received this, contact Audacy Customer Support at 800-273-9989.
2. From the host server login to audacycontrols.com with your Admin account.
3. Select the appropriate Audacy service package for your host server.
4. Once the compressed file has been downloaded, be sure to extract/unzip the “audacy_service” file to an accessible directory.
5. Click DOWNLOAD CONFIG and save the file “config.json” to the same directory as the “audacy_service” file downloaded in step 4.
6. Run the “audacy_service” file.

Note:

Windows Users - It is recommended that Windows users run the proxy software as a service. To do so, follow the instruction document included in the service package download labeled “Install_Audacy_Services_using_NSSM.docx”.

Raspberry Pi Users - Download and follow “Raspberry Pi Instructions” from the Downloads page.

WARNING: THIS APPLICATION MUST REMAIN RUNNING AT ALL TIMES! If closed, the Audacy Wireless Controls system will be unaffected, but will lose ability to control from audacycontrols.com and Consumption Reporting for that time period may be inaccurate.

3.3 GATEWAY SETUP

Each Gateway on audacycontrols.com must be given an internal/local IP address in order for the proxy to coordinate traffic from each Gateway to and from the Audacy server in the cloud. Before configuring the Gateway, obtain the following information from your IT network administrator for each Audacy Gateway that will be on the Audacy Wireless Controls system.

Before you can connect your PC to the Gateway for configuration you must assign your PC an IP address with the same subnet as the Gateway. The instructions below are specific to Windows 10 but the same settings can be used with any OS.

1. Go to Control Panel> Network and Sharing Center> Change Adapter Settings.
2. Right click on your Ethernet adapter and select Properties.
3. Click on Internet Protocol Version 4 (TCP/IPv4) and click on Properties.
4. Take note of the current settings so you can restore them after the Gateway has been configured.
5. Use the following IP address and set the fields as follows:
   - IP Address: 192.168.1.27
   - Subnet Mask: 255.255.255.0
   - Default Gateway: 192.168.1.1
3.3.1 STATIC IP ADDRESS SETUP

1. Apply power to the Audacy® Gateway and allow approximately 1 minute for the boot cycle (plug in the power supply into any 120V outlet).
2. Insert an Ethernet cable into the Ethernet port on the Gateway and directly into your PC.
   a. Access the Gateway configuration menu from a web browser by entering the Gateway Static IP address “192.168.1.47” into the address bar.
   b. The default login information is:
      - User = admin
      - Password = testpassword01
   c. From the Audacy Gateway’s home page select the gear icon.
   d. Select Static and enter the desired network settings and when finished click Submit.
   e. For added security you can change the Username and Password via the User Settings sub-menu under Settings.
   f. Click Submit.
   g. Power down the Gateway.
   h. Place the Gateway in desired location, connect to the local area network and power up.

3.3.2 DHCP ADDRESS SETUP

1. Apply power to the Audacy Gateway and allow approximately 1 minute for the boot cycle (plug in the power supply into any 120V outlet).
2. Insert an Ethernet cable into the Ethernet port on the Gateway and directly into your PC.
   a. Access the Gateway configuration menu from a web browser by entering the Gateway Static IP address “192.168.1.47” into the address bar.
   b. The default login information is:
      - User = admin
      - Password = testpassword01
   c. From the Audacy Gateway’s home page select the gear icon.
   d. Select DHCP and click Submit.
   e. When not using the Audacy Proxy Kit, the IP address must be reserved on the network using the Gateway’s MAC address. The IP address must be known to add to audacycontrols.com.
   f. For added security you can change the Username and Password via the User Settings sub-menu under Settings.
   g. Click Submit.
   h. Power down the Gateway.
   i. Place the Gateway in desired location, connect to the local area network and power up.
   j. Gateway should be available at the IP address provided by your IT department.

Note: When using an Audacy Proxy you can select DISCOVER GATEWAYS to auto-fill the Gateway IP address. This is especially useful when using DHCP if the IP address assigned to the Audacy Gateway is unknown. If multiple Gateways are listed use the Gateway’s serial number to select the proper Gateway using the dropdown menu.

3.3.3 ADDING A GATEWAY TO AUDACYCONTROLS.COM

1. Once configured, remove the Ethernet cable from your PC and connect it to your local area network and install the Gateway.
2. Login to audacycontrols.com.
3. Click SETUP.
4. If another Gateway is already configured you will have to click Add Gateway+, otherwise skip to step 5.
5. Enter a Gateway name, the static or DHCP Reservation IP address, the username and password as set-up previously, timezone of the Gateway and then Click ADD GATEWAY.

Note: If the IP address assigned by the DHCP server is unknown you can temporarily login to the Gateway using 192.168.1.47 by pressing and holding the button on the front of the Gateway until you see both the A and the B lights turn on green for 5 seconds.
4.0 Setting up AudacyControls.com

Audacycontrols.com can be accessed via a web browser or a mobile device.

4.1 Web Application

4.1.1 Login to Web Application

1. Navigate to audacycontrols.com from your web browser.
2. Sign in to the Audacy Wireless Controls system using the credentials provided by Audacy Sales or Customer Support Team when the product was purchased. If you need assistance with your credentials, please contact Audacy Customer Support at 800-273-9989 or contactus@audacywireless.com.

4.1.2 Adding an Administrator

An administrator has full access to audacycontrols.com including SETUP, SPACES, SCHEDULES, REPORTS and ACCOUNT menus for all rooms and room groups.

1. Click ACCOUNT.
2. Click ADD ADMINISTRATOR.
3. Fill in the email address of the Administrator you would like to add.
4. Click ADD ADMINISTRATOR.
5. For information on adding Authorized Users, go to Section 8.2.
4.2 MOBILE APPLICATION

4.2.1 LOGIN TO MOBILE APPLICATION

1. Download the Audacy Controls iOS® mobile app from the App Store for an Apple® iOS device or the Google Play Store for an Android device.
2. Open the app on the mobile device.
3. Sign in to the Audacy Wireless Controls system with credentials provided.

4.2.2 ADDING AN ADMINISTRATOR

An administrator has full access to Spaces, Reports, Setup and Profile for all rooms and room groups.

1. Click Profile.
2. Select Add Administrator.
3. Fill in the email address of the Administrator you would like to add.
4. Click Add.
5.0 Creating Rooms

In the Audacy® Wireless Controls system, a “Room” is the lowest level to which a given space can be assigned control over a set of devices. A Room can be a physical room, or it can simply be a way to create zones within a space.

To Create a Room

1. Click SETUP.
2. Click Add Room +.

3. Type in a unique room name.
4. Select the Gateway to which you want the room assigned.
5. Click ADD ROOM.
6.0 ADDING DEVICES INTO THE SYSTEM

Devices must be added to the system and assigned to the appropriate room according to the lighting design plan. A device can be physically installed either before or after being added to the system.

There are two ways to add devices into the system: via the mobile app or via audacycontrols.com website. While the simplest method is via the mobile app, both methods are shown below for clarity and completeness.

6.1 ADDING DEVICES VIA MOBILE APP

6.1.1 SCANNING DEVICES VIA THE AUDACY® MOBILE APP

The Audacy mobile app includes a function to allow device serial numbers to be quickly populated into the Audacy Wireless Controls system by scanning the bar code on the device.

Note: Prior to scanning serial numbers, a room must be created in order to associate devices to that specific room (See Section 5.0).

1. Open the Audacy mobile app on your Apple® or Android device.
2. Click SETUP.
3. Select the target Gateway.
4. Select the target Room.
5. In order to provide accurate consumption data, it is critical to make sure the values of all Luminaire Controllers are set based on the fixture type that they support. When in Setup, press \( \text{ } \) to adjust the default values; these values will be applied to each device (in a specific room) that is scanned into audacycontrols.com.

Note: When wiring multiple fixtures to a single Luminaire Controller, multiply the nominal ampere draw for a single fixture by the number of fixtures on that Luminaire Controller (i.e. 5 fixture x .2 Amps = 1.0 Amp Draw).

6. Align the barcode scanner portion of the app with the serial number barcode of the Audacy device and hold until you feel your phone or tablet vibrate slightly. The barcode and name of the device appear on the screen in green if it has been successfully added.

If the device’s barcode and name appear in red, the system has detected a duplicate and you cannot scan the duplicate device into the app.

7. Once the Audacy device has been scanned and the name appears green, click the barcode scanner window again to add the device into the app. An Add Device pop-up screen will appear where you can adjust the name of the device if you wish. An auto-name gets generated based on the device type.

To view a step-by-step video on how to add devices via the mobile app barcode scanner, watch: https://www.youtube.com/watch?v=1Ux7Pao3-o
6. If the device is a Luminaire Controller you have the option to “Show advanced controller settings” to add fixture details.

**Device Type** – Type will automatically populate.

**Select Channel** – Channel A should be used in most configurations.

**Voltage Rating** – Set according to fixture; used to calculate consumption data.

**Ampere Draw** – Set according to fixture; if multiple fixtures are controlled by the same Luminaire Controller the Amperage draw should be the total of all fixtures controlled. Used to calculate consumption data.

**Power Factor** – Set according to fixture; used to calculate consumption data.

*Note:* Modifying the default value of 1 is typically not needed due to the high power factor for most lighting systems.

**Bulb Type** – Set according to fixture.

*Note:* Incorrect data could result in inaccurate consumption reporting.

Once devices have been added to a room, they can then be associated to one another to produce the desired functionality for a given space (see Section 7).

7. Click SAVE.
5. In certain situations, it may be necessary to enable the repeater function on selected Luminaire Controllers to extend the wireless range of your Audacy Wireless Controls system. In order to do so, perform the following steps.
   a. Select room in which the desired Luminaire Controller will be enabled as repeater.
   b. Select the Luminaire Controller.
   c. Click to access settings and enable repeater.

NOTE: It is not recommended to enable the repeater function on all Luminaire Controllers. Enabling more repeaters than necessary may have a negative impact on system performance. A maximum of 5 repeaters may be enabled per Gateway.

7.0 SYSTEM CONFIGURATION

Configuration of the Audacy Wireless Lighting Control system is to be performed by an Audacy Field Support Engineer or a certified installer that has completed system training led by a Field Support Engineer.

7.1 ASSOCIATING DEVICES VIA WEB INTERFACE

Once all the devices are assigned to a room, the control devices such as switches, light sensors* and motion sensors need to be associated with the Luminaire Controllers they will control.

1. Click SETUP.
2. Select the desired room in which devices need to be associated.
3. For each control device in the room, place a checkmark next to each Luminaire Controller you want that device to control (for example in the image above, “Lights” is configured to control ELV Dimming Luminaire Controller 2 but not Plug Load Controller 1).
4. Click SAVE.
7.2 ASSOCIATING DEVICES VIA MOBILE APP

Once all the devices are assigned to a room, the control devices such as switches, light sensors and motion sensors need to be associated with the Luminaire Controllers they will control.

1. In the Setup menu expand the Gateway that contains the desired space in which devices need to be associated.

2. Select the desired Space.

3. Select the device you want to make associations with.
Note: You may associate control devices and Luminaire Controllers with each other.

4. Select the box of the device(s) you want to create an association with.
7.3 Adjusting Room Settings

Access the Room Settings via the Spaces menu in the Audacy interface or mobile app.

**TURN LIGHTS** – ON, Lights turn on, OFF, Lights turn off.

**FULL ROOM** – When Full Room is displayed the on/off and DIM settings selected apply to the full room. Selecting a switch in the room will apply the on/off and DIM settings to the fixtures associated with that switch.

**SET DIM** – Set the dim level of lights. 10% = minimum light, 100% = maximum light.

**DIM MAXIMUM** – Sets the maximum true dim level of the lights.

**SCENES** – Customizable settings to enable one-touch lighting changes.

**VACANCY TIMEOUT** – Sets the amount of time after which lights turn off when room is vacant.

**OCCUPANCY STATUS** – Shows when a room is occupied or not.

**OCCUPANCY DIM** – Set the default occupied dim level of the lights. 10% = minimum light, 100% = maximum light. Lights will turn on with motion to specified dim level.

**VACANCY DIM** – Set the default vacancy dim level of the lights. 0% = minimum light, 100% = maximum light. Lights will turn on when room is vacant to the specified dim level.

**LIGHT SENSOR** – Set desired light level of room including all light sources.

Note: while increments shown on Interface are 10%, adjustments can be made in 1% increments.

In the Audacy Controls mobile app, access the menu by selecting the Advanced Config gear icon when in a particular Space.
7.4 CONFIGURING SCENES ON THE WEB INTERFACE

The Scenes feature provides the ability to create and easily switch between 16 custom lighting configurations within a room. A Scene configuration is easily created by setting the lights to the desired settings and then saving the scene.

1. From the Spaces menu, select the room to which a scene will be saved.
2. Select the dropdown arrow next to the scene in order to:
   - **Save Current Scene** – Saves scene to current light level in the room.
   - **Rename Scene** – Customize name of scene.
   - **Open Advanced Scene Editor** – Enables configuration of scenes at the light fixture level for additional customization of scene settings.
3. To rename the Scene, select the dropdown arrow next to the scene number you want to rename and click Rename Scene and type in desired name.
4. With the Advanced Scene Editor you can adjust settings at a Luminaire Controller level to set scenes. Press “TRIGGER SCENE” prior to making any adjustments. Use the slider bar to set the desired light level of a Luminaire Controller in the room. The “NOW” indicator on each slider shows the current level for each Luminaire Controller when it is different than the current scene settings. After you are done adjusting the sliders wait 5 seconds and press Save.
5. To activate any scene, click on the name of the scene.
7.5 CONFIGURE SCENES ON THE MOBILE APP

7.5.1 VIEW, ACTIVATE, DEACTIVATE SCENES

1. From the Spaces menu, select the room to which a scene will be saved.

2. To view, activate or rename a scene, click on Activate Scene.

   ![Conference Scene Editor](image)

   2. All of the Space’s available scenes will be listed, a maximum of up to 16. Any currently active scenes will be highlighted.

   3. To deactivate an active scene, select a different scene or turn the space on or off.

7.5.2 RENAME SCENES

1. To rename a scene, long press on the scene name.

2. From the options that appear, select RENAME.

3. Enter the new name you wish the Scene to have and save by selecting Rename.

7.5.3 SCENE EDITOR

1. To access Scene Editor, long press on the scene name and select SCENE EDITOR from the pop-up.

2. The initial Scene Editor screen will show the scene’s current settings. As the settings are grayed out, you cannot make any adjustments until you select Live Edit mode, which will also trigger the scene.

3. Once in Live Edit mode, The blue sliders indicate that the scene settings can be adjusted as needed. Please note that this is a LIVE edit, so any changes in sliders will show up in real-time in the space.

4. Once you have made your desired changes, select Save.

   ![Scene Editor](image)

To view a step-by-step video on how to navigate the mobile app scene editor, watch: https://www.youtube.com/watch?v=9rc6zFm7TDs
8.1 CREATING ROOM GROUPS VIA INTERFACE

When two or more Rooms are tied together, a “Room Group” is created. While it is not necessary to create Room Groups in an Audacy® Wireless Controls system, controlling a Room Group allows a user to turn on, off and dim more than one Room simultaneously. Greater levels of control can be found at the Room level only.

Some examples of typical Room Groups include:

- A particular floor on a multi-story building
- Several Rooms in a given portion of a building, e.g., “West side”

1. From the Setup menu click Add Room Group+
2. Enter a name for the Room Group.
3. If you would like this entire Room Group to be controlled from a switch enter the switch serial number under MASTER SWITCH, otherwise leave this blank.
4. Select Rooms to include in the Room Group and click CREATE to save the Room Group.
5. Multi-Groups (groups of Room Groups) may also be setup. For the GROUP OF field, select ROOM GROUPS and select from list of Room Groups previously created.

8.2 CREATING ROOM GROUPS VIA APP

1. From the Spaces menu select the Room Group Icon
2. Select the New Room Group Icon.
3. Type in the desired Room Group name
4. Select Room Group to make a new group, select Multi-Group to make a group of existing Room Groups.
5. Select the rooms or groups you want to include in the group.
6. Click Create.

Note: You may also edit an existing room group by selecting the Edit icon or delete a room group by selecting the delete icon.
8.3Adding Authorized Users

An authorized user’s access is limited to:

**SPACES**
- Turn Lights ON/OFF
- Set Dim Level
- Activate Scene (cannot edit saved scene light levels)
- Vacancy DIM Level
- Occupancy Status

**ACCOUNT**
- Change Password
- Notifications – Enable Error notifications

---

**ADDING USERS VIA AUDACYCONTROLS.COM**

1. Click ACCOUNT.
2. Click ADD AUTHORIZED USER from the Users menu.
3. Fill in the email address of the Authorized User.
4. Select the Room Group(s) and Room(s) to which you want to assign control.
5. Click SUBMIT.
6. The user will receive an email with a temporary password.
   (Be sure to add “no-reply@audacycontrols.com” to your email’s safe sender list)

---

**ADDING USERS VIA AUDACY CONTROLS MOBILE APP**

1. Click PROFILE.
2. Click ADD AUTHORIZED USER from the Account Actions menu.
3. Fill in the email address of the Authorized User.
4. Select the Room Group(s) and Room(s) to which you want to assign control.
5. Click Add.
6. The user will receive an email with a temporary password.
   (Be sure to add “no-reply@audacycontrols.com” to your email’s safe sender list)
8.4 SCHEDULES

The Schedules feature provides a flexible and comprehensive ability to schedule all aspects of the lighting system.

1. Click SCHEDULES
2. Click Create New.

3. Type a name for the Schedule and click Save.
4. Select a Start and End Date and Time for a single event. For reoccurring events the start and end dates should correspond with the first event in the series. The recurrence will be set in the next step.

Note: To automatically adjust the start or end time to coincide with the seasonal changes in sunrise and sunset select the Astronomical Clock check box. Once selected you can select Sunrise, Sunset or an offset to either event in 15-minute increments for up to 1 hour from either event.

- In this example the schedule will start at 15 minutes before sunset and end at 2:00am.

5. To create a reoccurring event, click on Repeats and select if the event should recur Daily or Weekly. You may also pick an end date for the event if desired by clicking the On checkbox and selecting an end date.

- If you select to Repeat Weekly you will have the option to select which days of the week you want the event to repeat.

6. Select area(s) for the schedule and set the parameters to take effect during the scheduled time.

- In this example the Exterior lights will turn on at 100% brightness and the Vacancy Timeout will be set to 0 (disabled).

7. If multiple areas are to be scheduled for the same time/date period select another area and select the appropriate parameters for that area.

8. When parameters for all areas have been set, Select Save.

PARAMETER DESCRIPTIONS

Lights In Schedule: Determines which lights/Luminaire Controllers will be set to the level selected in the Dim field. If a switch is selected, only the lights/luminaire controllers associated with that switch will be set to the level indicated in the Dim field.

Scene: Select a scene to be applied during the scheduled period

Disable Switches: Select switch(es) to be disabled during the scheduled period

Motion Sensors: Check the box to inhibit Occupancy (motion triggering lights on) during the scheduled period. The Motion Sensor(s) will continue to function for Vacancy (the lights will stay on while the room is occupied)

Dim: Select a dim level to be applied during the scheduled period

Maximum Dim: Select a Maximum Dim level to be applied during the scheduled period

Fade Rate: Select a fade rate to be applied during the scheduled period

Vacancy Timeout: Select a Vacancy Timeout to be applied during the scheduled period

Occupancy/Vacancy Dim: Select an Occupancy (or Vacancy) Dim level to be applied during the scheduled period
8.4 SCHEDULES (CONTINUED)

When viewing schedules a list view shows the upcoming events for the current week. You can move forward or backward a week using the arrows next to the date. Pressing Extend allows you to add up to 2 hours of additional time to the event. Pressing Remove will remove the event from the schedule.

You can also select a Month view to see your upcoming events for the next month in a calendar view.

To edit an existing schedule select the name of the schedule from the left side menu.

8.5 UPLOADING FLOOR PLANS

Uploading a floor plan image is the first step to enable an interactive floor plan. The floor plan can be in PDF, JPEG, or PNG format.

1. Click SETUP.
2. Scroll down the page to FLOOR PLANS and click UPLOAD.
3. Select the file of the image of your floor plan and click OPEN.
8.6 ASSIGNING ROOMS TO FLOOR PLANS

1. Click on the newly uploaded image within the FLOOR PLANS box in the SETUP menu.

2. All defined Rooms will be listed on the left hand side of the screen. Click on a Room and drag it to the appropriate location on the floor plan.

3. Once it is in the proper location you can click on an edge or corner of the Room to size it appropriately.

4. Repeat until all Rooms have been added to the floor plan.

5. To edit a Room click on the Room and move it or resize it.

6. To remove a Room from the floor plan click on the Room and then click the “X”.

7. To delete the entire floor plan click DELETE in the upper right hand corner.

8.6 ASSIGNING ROOMS TO FLOOR PLANS

8.7 CONTROLLING LIGHTS

8.7.1 WITHIN THE SPACE

Press the up or down arrow on any switch to adjust the brightness or the ON or OFF button to control the light fixtures assigned to it. Pressing the up arrow while the lights are off will turn the lights on at the lowest DIM setting.

8.7.2 FROM INTERFACE & APP

You can also control your light fixtures from a computer, tablet or smart phone using audacycontrols.com or the Audacy Controls iOS or Android app. Audacycontrols.com and the app enable control of turning light fixtures ON/OFF, setting the DIM level or selecting a customizable SCENE.
9.0 CONSUMPTION REPORTS

Energy consumption is calculated using the data you provided during Luminaire Controller configuration. Load data is pulled from the Gateway, the driver/ballasts, and sensors/switches. Click REPORTS from the main audacycontrols.com menu.

There are multiple options available to utilize the consumption data and consumption data is stored indefinitely within the system. The user can input voltage, amperage and power factor of the driver - the system will calculate energy consumption via an internal lookup table.

9.1 OVER TIME

This report allows you to view a historical record of consumption that can be broken down to a specific date range, room and time period.

Note: You must click UPDATE to refresh the graph after the desired data is selected.

SOURCE – Choose to view the consumption of all rooms or select a specific room to view.

DATE RANGE – Select a start and an end date to view the consumption data between those dates.

BY – Select the time period each data point on the graph will represent: Day, Week or Month.

Note: Power Consumption is a calculated value based on the duration that the light fixtures are on. Other factors like dim levels set and the values input for voltage, power factor and Ampere draw will affect calculations (see section 6.2.6). Fluorescent lamp power consumption data uses a modified 0-10V dimming curve that reflects a typical non-linear characteristic. For typical LED fixtures, a linear 0-10V dimming curve is used. Data is recorded down to .1A and samples are gathered every 5 minutes, are averaged and reported every 24 hours.

9.2 BY AREA

This report allows you to view a historical record of consumption that can be broken down by location over a specific date range.

Note: You must click UPDATE to refresh the graph after the desired date range is selected

9.3 EXPORTING

Click EXPORT CSV to download a CSV file for the selected Date Range containing the Date, Room Name, and associated Watt Hours.

9.4 BUILDING AUTOMATION INTEGRATION

The Audacy Wireless Controls system can be tied into a Building Automation System if desired. The Gateway can interface with a wide range of BAS protocols including BACnet®/IP, BACnet®/MSTP, Modbus TCP, Metasys® N2, Modbus RTU and LonWorks®. For specific requirements please call Audacy Customer Service at 800-273-9989 for assistance with integrating Audacy with your BAS.

The BAS controls lights at the room level. The following fields are available to the BAS:

- Room:
  - Occupancy Status (Read Only)
  - Vacancy Timeout (Read Only)
  - State (Read and Write)
    - Value 0-100: 0 = relay off, 1-100 = DIM level
    - Scene 1, 2, 3 or 4
  - Scene (Write Only)
    - Scene 1 - 16
  - Switch: Battery Voltage (Read Only)

- Switch State (Read and Write)
  - Value 0-100: 0 = relay off, 1-100 = DIM level
  - Occupancy Sensor: Battery Voltage (Read Only)
  - Light Sensor: Light Level and Battery Voltage (Read Only)
A. SAFETY AND REGULATORY INFORMATION

1.1 UL INFORMATION
- **59-GW1100 (Gateway):** UL 916 (Energy Management Equipment), UL 2043 (Plenum rated)
- **59-SCL1000 (Luminaire Controller, Internal-Mount) and 59-SCC1000 (347V Luminaire Controller, Internal-Mount):**
  - UL 916 (Energy Management Equipment), UL 2459 (Luminaire Disconnect), UL 1598B (Luminaire Retrofit Kit)
- **59-SCD1000-EM (120/277V Luminaire Controller, External-Mount):** UL 916 (Energy Management Equipment), UL 1598B (Luminaire Retrofit Kit), UL 2043 tested - “suitable for use in air handling spaces”
- **59-SCDMET1002/-277 (Metal Luminaire Controller, External-Mount), 59-SCLINE1000/-277 (Line Dimming Luminaire Controller), 59-SCELV1000/-277 (ELV Dimming Luminaire Controller) and 59-LCE20A1000 (20A Luminaire Controller):** UL 916 (Energy Management Equipment), CCEA (Chicago Plenum), CAN/ULC-S102.2 (Canada Plenum)

1.2 FCC INFORMATION
- **59-GW1100 FCC ID:** 2AAMXGW1100B
- **59-SCL1000 FCCID:** 2AAMXSCL1000
- **59-SCC1000 FCCID:** 2AAMXSCC1000
- **59-SCD1000 FCCID:** 2AAMXSCD1000
- **59-SCD1000-EM FCCID:** 2AAMXSCD1000EM
- **59-SCDMET1002/-277 FCCID:** 2AAMXSCHMET1002 (or SCDMET277)
- **59-SCLINE1000/-277 FCCID:** 2AAMXSCLINE1000 (or SCLINE277)
- **59-SCELV1000/-277 FCCID:** 2AAMXSCELV1000 (or SCELV277)
- **59-LCE20A1000 FCCID:** 2AAMXLCE20A1000
- **59-VSCI1300 FCC ID:** 2AAMXVSCI1300
- **59-VSCI1301 FCC ID:** 2AAMXVSCI1301
- **59-VWSW1300 FCC ID:** 2AAMXVWSW1300
- **59-HBS1302 FCC ID:** 2AAMXBHS1302
- **59-RPS2000 FCC ID:** 2AAMXRPS2000
- **59-VDT1300 FCC ID:** 2AAMXVDT1300
- **59-LS1400 FCC ID:** 2AAMXLS1400
- **59-WMSI200/1201 FCC ID:** 2AAMXWMSI200/1201
- **59-WSS1200 FCC ID:** 2AAMXWSS1200
- **59-SS1200 FCC ID:** 2AAMXSS1200
- **59-RS1800 FCC ID:** 2AAMXR51800

1.3 INDUSTRY CANADA INFORMATION
- **59-GW1100 IC:** 11250A-GW1100B
- **59-SCL1000 IC:** 11250A-SCL1000
- **59-SCL1000 IC:** 11250A-SCC1000
- **59-SCD1000 IC:** 11250A-SCD1000
- **59-SCD1000-EM IC:** 11250A-SCD1000EM
- **59-SCDMET1002/-277 IC:** 11250A-SCDMET1002 (or SCDMET277)
- **59-SCLINE1000/-277 IC:** 11250A-SCLINE1000 (or SCLINE277)
- **59-SCELV1000/-277 IC:** 11250A-SCELV1000 (or SCELV277)
- **59-ESCGRID1000/1001 IC:** 11250A-ESCGRID1000 (or 1001)
- **59-LCE20A1000 IC:** 11250A-LCE20A1000
- **59-VSCI1300 IC:** 11250A-VSCI1300
- **59-VSCI1301 IC:** 11250A-VSCI1301
- **59-VWSW1300 IC:** 11250A-VWSW1300
- **59-HBS1302 IC:** 11250A-HBS1302
- **59-RPS2000 IC:** 11250A-RPS2000
- **59-VDT1300 IC:** 11250A-VDT1300
- **59-LS1400 IC:** 11250A-LS1400
- **59-WMSI200/1201 IC:** 11250A-WMSI200/1201
- **59-WSS1200 IC:** 11250A-WSS1200
- **59-SS1200 IC:** 11250A-SS1200
- **59-RS1800 IC:** 11250A-RS1800
B. STARTUP REQUEST FORM

If you have any questions, request a conference call with an Audacy Field Support Engineer by emailing startup@audacywireless.com with the subject: “Startup Checklist Review”. Our team will walk through the checklist items and any questions you may have.

STARTUP CHECKLIST

NETWORK AVAILABILITY

(Select One)

☐ Customer IT network will be available at time of Startup
☐ Customer IT network will not be in service at time of Startup

Note: Fees for additional visits may apply; Cloud features* will not be available until the Gateway/Proxy are networked

☐ Gateway will not be networked

Note: Cloud features* will not be available when Gateway is not networked

*Cloud Features Include: Remote system control from web interface and mobile app, schedules, consumption and error reporting

GATEWAY IT REQUIREMENTS

(Skip if Gateway will not be networked)

☐ Ethernet Drop for network connectivity is available for Gateway(s)

Network information for Gateway(s) (select one)

☐ Static IP: (For multiple Gateways, please use attached page)
  Static IP: ______________________________
  Netmask: ________________________________
  Gateway IP: _________________________________
  Primary DNS: ________________________________
  Secondary DNS: ________________________________

☐ DHCP: A MAC IP reservation has been created

Note: MAC address is printed on bottom of Gateway

☐ Username and password for Gateway(s) have been supplied

☐ Check here to use default username and password
  Username: ________________________________
  Password: ________________________________

* Password must be a minimum of 8 characters, contain at least one uppercase and lowercase letter, one number (0-9) and a special character.

☐ NTP Server (Required for schedules): ________________________________

PROXY

(Skip if Gateway will not be networked)

Proxy Type (select one)

☐ PROXY-RP01 is powered and networked
☐ Customer provided physical/virtual machine is available to host Proxy software

☐ Proxy has access to Port 993 (outgoing) open to Internet
☐ Proxy has network connectivity to all Gateways
B. STARTUP REQUEST FORM

PHYSICAL INSTALLATION

☐ Gateway(s) installed, has power and is accessible
☐ All Luminaire Controllers installed per plan and installation guidelines
☐ All sensors and switches installed per plan and have been activated

DATA COLLECTION

☐ Detachable bar code label containing device serial number has been removed from each Audacy device and placed on lighting plan or other document to record location of each device (example on page 5)
☐ Room/area names are documented for each space
☐ Sequence of operations for each room or area type are available
☐ (Optional) Fixture information is available for accurate consumption reporting
  • Voltage, Amperage Draw, Power Factor, Luminaire Type

BUILDING AUTOMATION SYSTEM

Will the Gateway(s) be tied into a Building Automation System (BAS)? (Select One)

☐ No
☐ Yes - Please provided contact information for BAS integrator
  Name: _____________________________
  Company: ____________________________
  Email: _____________________________
  Cell Phone: ____________________________

STARTUP PERSONNEL AVAILABILITY

☐ Authorized personnel available during startup process to answer questions on configuration and sign-off on startup completion
☐ Certified electrician available to resolve any issues that may arise during startup process
☐ IT personnel available to support networking of Gateway and Proxy (if applicable)
☐ Personnel are available for on-site Audacy system training upon completion of startup process

STARTUP LOGISTICAL INFORMATION

Requested startup date (minimum 10 business days lead time): ____________________________

Is startup required outside normal business hours (6 AM - 6 PM Monday - Friday, non-holidays)?

☐ No  ☐ Yes (Fees will apply)

Project/Customer Name: ____________________________

Startup Location Address: ____________________________

On-Site Contact:
  Name: ____________________________  Phone Number: ____________________________  Email: ____________________________

Certified Electrician:
  Name: ____________________________  Phone Number: ____________________________  Email: ____________________________

IT Personnel:
  Name: ____________________________  Phone Number: ____________________________  Email: ____________________________

PPE Required (check all that apply):
☐ None  ☐ Safety Glasses  ☐ High Visibility Clothing  ☐ Work Boots  ☐ Hard Hat
B. STARTUP REQUEST FORM

By signing below, I agree to the following:

1. The startup date is not guaranteed until confirmed by an Audacy Field Support Engineer.

2. Startup date change requests sent in less than 10 days prior to the originally scheduled startup date may incur a fee.

3. All items on the startup checklist will be completed by the confirmed startup date.

4. Audacy system training will be performed on the same visit as startup.

5. Failure to comply may result in an additional fee, not to exceed the original startup amount.

Signature ________________________________ Date ________________________

Email completed startup request form to: startup@audacywireless.com.

Note: Startup requests will be denied if an incomplete checklist is submitted. Please request a conference with an Audacy Field Support Engineer by emailing startup@audacywireless.com if you are unsure of any item on this checklist.
**B. STARTUP REQUEST FORM**

Include additional static IP addresses for multiple Gateways here:

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User name and password for Gateway created and made available
Audacy Administrator identified and administrative privileges established
All switches control desired fixtures
Fixture information applied to enable accurate consumption data
Room names configured
Room groups configured
Floor plan image uploaded and rooms are “clickable”
Schedules appropriately created
Occupancy/Vacancy configured for each room
  • Vacancy timeout
  • Occupancy/Vacancy dim
Plug Load Control configured
Scenes configured
Daylight harvesting configured
Web/Mobile Interface functioning properly
Audacy System Operation Overview completed

Outstanding Items/Acceptance Conditions:

Signature  Name (Print)  Date

Company  Title
D. DEFAULT SETTINGS

- **High End Trim/DIM Maximum**: 100%
- **Occupancy Dim**: 50%
- **Vacancy Timeout**: 30 minutes
- **Scene 1**: Off, 0%; **Scene 2**: Low, 30%; **Scene 3**: Medium, 60%; **Scene 4**: High, 100%
- **Vacancy DIM**: Off, 0%
- **Switches turn lights on at 100%**
- **Light sensor**: Low Threshold 0FC, High Threshold 230FC
- **Motion sensors**: Vacancy

E. LUMINAIRE CONTROLLER REQUIREMENTS

**MAXIMUM FIXTURES PER LUMINAIRE CONTROLLER**

The following table can be used to determine the maximum number of fixtures that can be connected to each SCD1000-EM Luminaire Controller or SRC2100 Single Room Controller.

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Maximum Wattage per Luminaire Controller</th>
<th>Maximum Dimming Circuits (Sinked*) per Luminaire Controller</th>
<th>Maximum Dimming Circuits (Sourced*) per Luminaire Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>120VAC</td>
<td>600W</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>240VAC</td>
<td>1200W</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>277VAC</td>
<td>1385W</td>
<td>10</td>
<td>1</td>
</tr>
</tbody>
</table>

Refer to your ballast or LED driver specifications
## F. DEVICE LAYOUT RECORD

Duplicate as needed

<table>
<thead>
<tr>
<th>ROOM</th>
<th>LOCATION</th>
<th>DEVICE TYPE</th>
<th>SERIAL #</th>
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