

The instructions within this section will help you set up and configure a SimplySNAP lighting solution. For later maintenance tasks, individual sections later in this guide will also have the information needed to perform these edits.

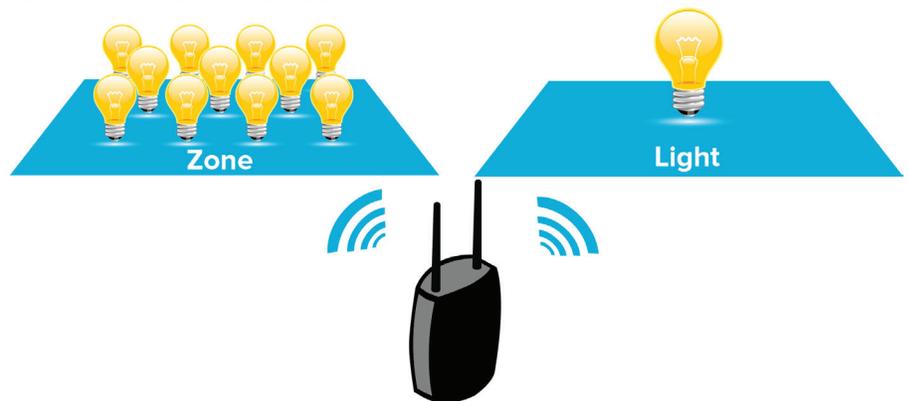
System Requirements

- Synapse SimplySNAP SS420 Site Controller
- Synapse light controllers
- Laptop or tablet running Chrome browser
- (Optional) Sensors and switches

Lighting System Configuration Overview

A SimplySNAP lighting solution consists of a Synapse SS420 site controller and some number of lights equipped with Synapse light controllers and sensors.

The SS420 site controller serves as the hub of control and communications for managing the lights that make up the lighting solution.



Hardware Installation

The first step in installing a SimplySNAP lighting solution is to connect the physical hardware of the system, followed by configuration of the system within the SimplySNAP user interface. These instructions assume that you have already installed Synapse Lighting Controllers for the lights that will make up your SimplySNAP lighting solution and you are now ready to connect the site controller.

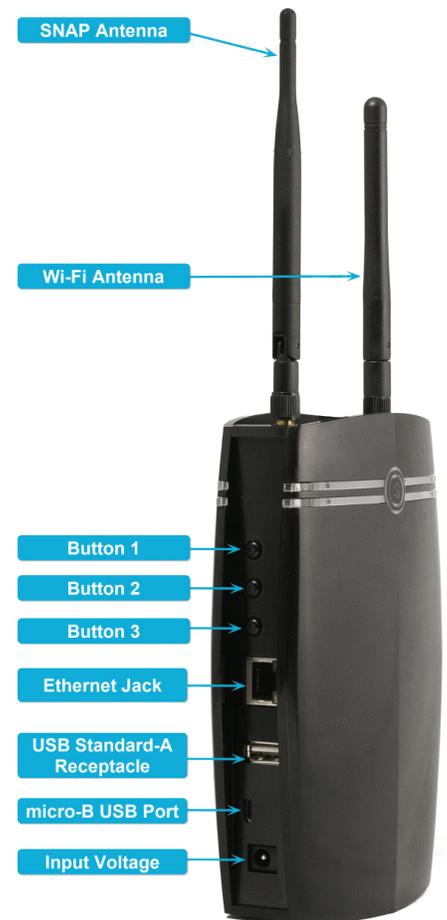
For more detailed instructions, including usage and configuration information, please download the SimplySNAP User Guide from www.synapse-wireless.com/SimplySNAP.

Call Dave Medinis 239 841 3283



To install the SimplySNAP site controller:

1. Unpack the SS420 site controller.
2. Attach the two antennas included to the site controller as shown in the figure below. When looking at the top of the site controller (with the mounting bracket on the back side), the longest antenna (SNAP antenna) attaches to the top antenna connector on the left side and the shorter antenna (WiFi antenna) attaches to the top antenna connector on the right side as shown below. The middle antenna jack is for cell modem use and is not included in this configuration of the site controller.
3. Plug the provided power supply into the barrel connector and then into an 110VAC outlet. When the SS420 site controller powers up, orange and blue LEDs will light up for approximately 30 seconds while the site controller software starts up. Once this is complete, the orange LEDs will turn off. The site controller is now ready to use.



Software Configuration

The SimplySNAP site controller comes preconfigured with the SimplySNAP software so there is no user installation of software required.

SimplySNAP Version 1.0 currently only supports the Google Chrome browser. Other browsers will be supported in future releases. If you don't have the Google Chrome browser installed on your device, please download and install it from this location:

<http://www.google.com/chrome>

Connecting to the Site Controller

The SSID that is broadcast from the SS420 should be visible from the network connections panel of your computer or tablet. It will appear in your network connections list as simplySnap_XXXXXX where XXXXXX is the specific address of the site controller. This address is unique to each SS420 and is the last 6 alphanumeric characters of the Ethernet MAC address.

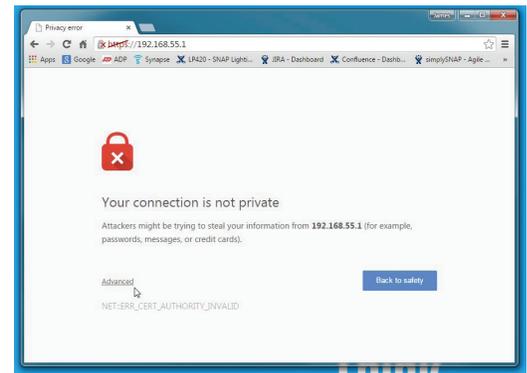


The Wi-Fi connection to the site controller is secure. Once you select the SSID and your computer attempts to connect to the Wi-Fi connection of your site controller, it will prompt you for a password to complete the connection. Enter the password **synapse!wireless** to establish the connection.

When this password is entered a connection is established and will appear in your network settings similar to what is shown below. This may appear as an “Unidentified network” with no Internet access. Now launch the Chrome browser and enter `HTTPS://192.168.55.1` in the address bar. Make sure it is entered exactly as shown. (This is a secure connection to a specific IP address that is the factory default within the site controller). This connection mimics a connection to an internet access point.



If you receive a warning as shown at right, click the Advanced link at the bottom, then click the Proceed to 192.165.55.1 (unsafe)” link. (This warning is displayed because the site controller is using an unsigned security certificate.)



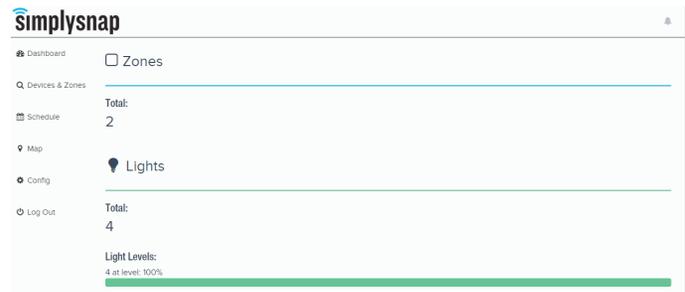
The SimplySNAP dashboard should now appear in your browser presenting you with the login screen to log in to the SimplySNAP server.

Enter the following username and password:

Username: snap

Password: qwerty

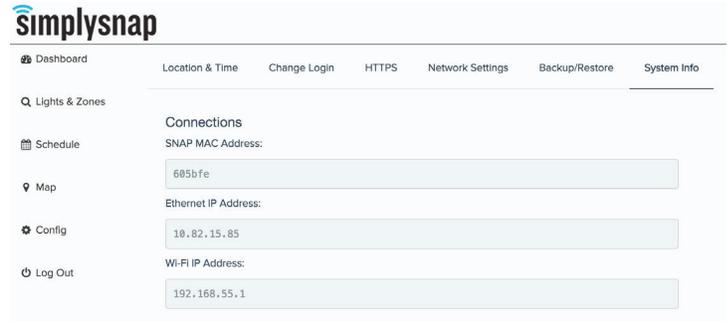
When you log in, the dashboard of SimplySNAP will be displayed as shown at right.



The SS420 site controller may also be connected to a wired LAN network and accessed via the LAN. The LAN must be configured with a DHCP server to provide an IP address to the site controller when it is connected. To use this method of connection, you must retrieve the IP address that the DHCP server provided to the site controller.

To retrieve a DHCP assigned IP address:

1. Connect to the site controller via WiFi as described above and log in.
2. Click the **Config** menu item in the left menu bar, then click the **System Info** tab near the top of the screen.
3. The site controller IP address is shown in the field labeled **Ethernet IP Address**. This address may be entered into a web browser's address bar and used to connect to the site controller across a wired LAN.



NOTE: A network administrator can configure the DHCP server to always provide the same IP address to the site controller and ensure connectivity can always be established via the LAN.

Basic Site Configuration

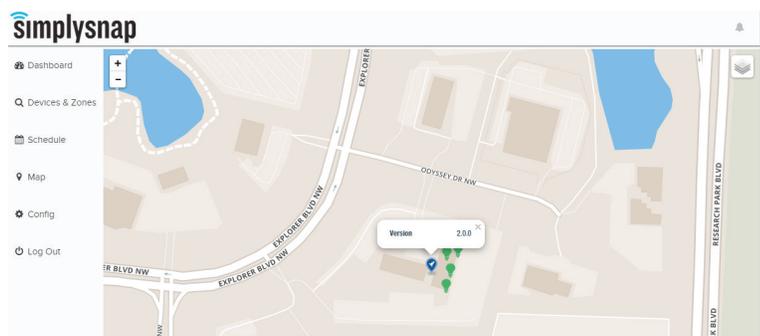
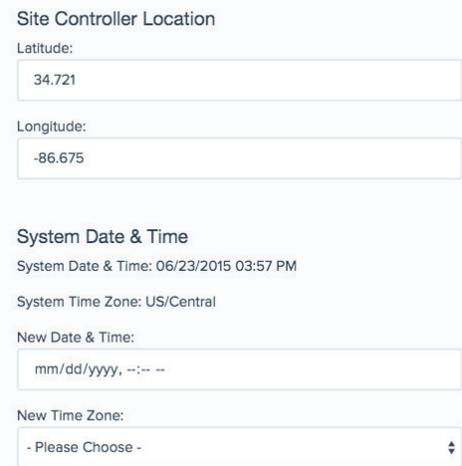
After establishing connectivity to the site controller, the following steps should be taken to initially configure the system for controlling lights.

Configure the site controller's location and time:

The location of the site controller may be entered by navigating to the **Config** page, clicking the **Location & Time** tab, and entering the correct longitude and latitude. The system time and time zone may also be entered in the **Location & Time** tab.

After entering this information, click **Save Changes** at the bottom of the page.

If the site controller is connected to the internet via a LAN connection, the Map page will display the correct location of the site controller on a map overlay.



Change the Login information for the site controller:

You should next change the default username and password to a custom username and password. Click **Config** in the left menu bar, then click the **Change Login** tab. You can change the username and password by following the on-screen instructions.

Enter Zones, Sensors and Lights:

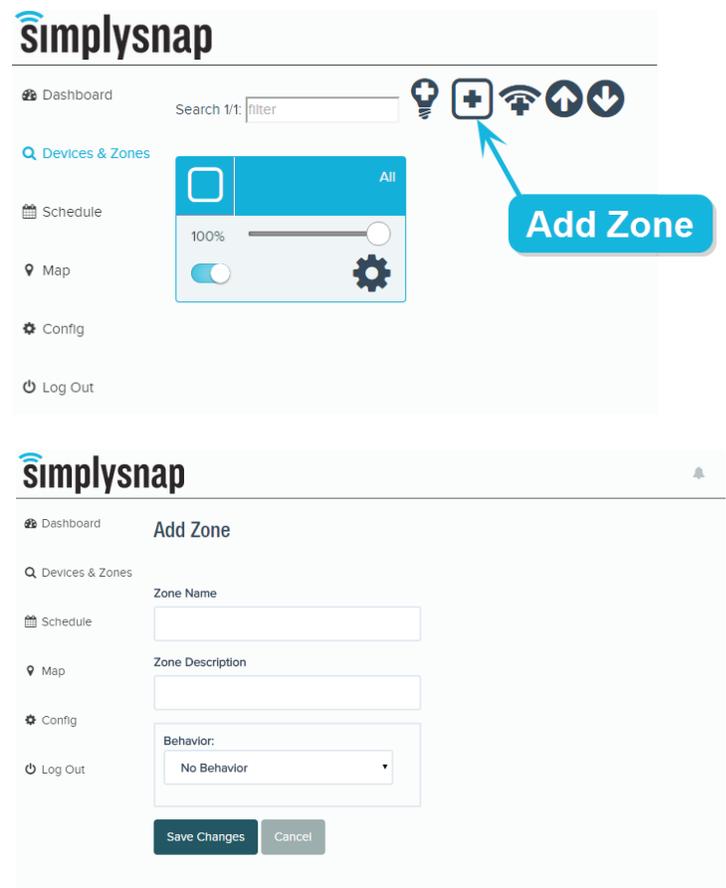
Now that basic setup is complete, you can begin adding lights, sensors, and switches, and group them into zones.

Adding Zones

A zone is a grouping of related devices. They provide an easy way to group lights that you want to control in a similar fashion. If you plan to use sensors to control light behavior, the sensors will issue commands to specified zones. For example, you may want to group all security lights into a separate zone from the parking lot lights. These groupings allow behaviors to be applied across multiple lights at once.

To add a new zone:

1. Click the **Devices & Zones** menu choice in the left menu panel, then click the **Add Zone** icon near the top of the page.
2. Enter the desired **Zone Name** and **Zone Description** in the provided fields.
3. The **Behavior** field represents the state for the zone when it is invoked, and can be set to **Off**, **On**, or **Dimmer**, or to a sensor related behavior. Zones can be reconfigured once they're created, so if you're planning to use a sensor for control, just select **On** for now. Select the desired state, and if that state is **Dimmer**, enter the light level in the **Level** field as a percentage from 0 to 100%.
4. Click the **Save Changes** button to save, or the **Cancel** button to exit without saving changes. On a successful save, a blue zone panel for the newly added zone will appear in the content area of the **Devices & Zones** page.



Adding Lights

To add a light, access the SimplySNAP dashboard and then click the **Devices & Zones** menu choice in the Left Menu Bar.

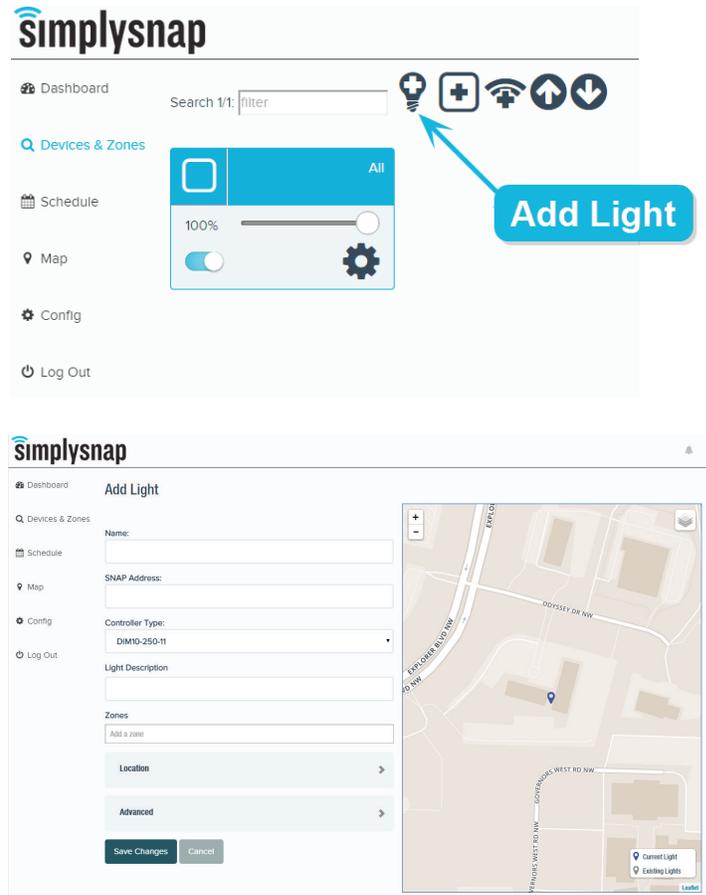
To add a new light:

1. Click the **Add Light** Icon near the top of the page.
2. Enter the desired name for the light, the SNAP Address for the light controller and the controller type into the provided fields. This information is required as a minimum. Other information may be entered as desired including a description, the zones the light will be included in, light location, etc. You can also position a light using the map view by clicking and dragging the light bulb icon to reposition the light.
3. Click the **Save Changes** button to save, or the **Cancel** button to exit without saving changes. On a successful save, a green light panel for the newly added light will appear in the content area of the display.

Each light is added individually by invoking this dialog to add additional lights. When all lights are entered, SimplySNAP will be ready to control your lighting system.

When a light is entered, it can be controlled from the **Lights and Zones** page. All lights can be controlled by clicking the **On/Off** switch on the blue “All” zone icon or dragging the slider to a specific illumination level.

Each individual light may be controlled similarly by clicking the **On/Off** switch on the green icon for each individual light or dragging the slider to create a specific brightness level for each light.



Adding Sensors and Switches

Sensors and switches contribute to the “intelligence” of your Lighting system. With sensors in place your system will be able to respond to events such as a person entering or leaving the area.

Switches can act as a manual way to activate lights without needing to log in to the SimplySNAP interface.

To add a sensor or switch access the SimplySNAP dashboard and then click the **Devices & Zones** menu choice in the Left Menu Bar.

To add a new sensor or switch:

1. Click the **Add Sensor** Icon near the top of the page.
2. Enter the desired name for the sensor or switch, the SNAP Address for the lighting controller the sensor or switch is attached to, and the controller type into the provided fields. You'll also need to select a sensor type from the Sensor Type drop-down list.
3. In the **Zone** field, enter the zone that the sensor will affect.



NOTE: A zone can only have one photocell sensor.

4. Steps 2 and 3 are required as a minimum. Other information may be entered as desired including a description and location. The Threshold High and Threshold Low fields can be used to fine tune the sensitivity of attached sensors, but this should only be done in cases where sensor response is found to be weak. Most sensors will work fine with the default settings.
5. Click the **Save Changes** button to save, or the **Cancel** button to exit without saving changes.
6. On a successful save, an orange sensor panel for the newly added sensor will appear in the content area of the dashboard.
7. At this point you'll need to configure how the sensor will control your lighting. Click the **Devices & Zones** menu choice in the left menu panel, then click the gear icon for the zone where you placed your sensor.
8. Click the Behavior drop-down and select the Behavior that corresponds to your desired control mode, then click the **Save Changes** button to save, or the **Cancel** button to exit without saving changes.

For more detailed instructions, including information on scheduling and alarms, please consult the SimplySNAP Installer

 A screenshot of the "Add Sensor or Switch" configuration form in the SimplySNAP dashboard. The form includes the following fields:

- Name:** A text input field.
- Sensor Type:** A dropdown menu with "Motion" selected.
- SNAP Address:** A text input field.
- Controller Type:** A dropdown menu with "DIM10-250-11" selected.
- Sensor Description:** A text input field.
- Threshold High:** A numeric input field with "60" and a checkmark.
- Threshold Low:** A numeric input field with "40" and a checkmark.
- Zone:** A dropdown menu.
- Location:** A button with a right-pointing arrow.
- Advanced:** A button with a right-pointing arrow.
- Save Changes** and **Cancel** buttons at the bottom.