



Savant® Pro Lamp Control Deployment Guide

Document Number: 009-1388-02
Document Date: March 2022
Document Supports: da Vinci 8.10.1 or higher

This document outlines the process for deploying Savant Pro Lamp Control products including physical installation, RacePoint Blueprint™ configuration, and web-based user interface setup.

Products supported by this guide include:

- Savant Pro Lamp Control [SAV-LMP-0300]

Contents

To access links to the topics within this document, click the corresponding entry in the table below.

1.	Before You Begin.....	4
2.	Deployment Steps.....	4
3.	Provisioning to the Network Using SmartConnect.....	5
3.1.	Required Items for Network Configuration.....	5
3.2.	SSID Guidelines.....	5
3.3.	Provisioning Using SmartConnect.....	6
4.	Blueprint Configuration - Lighting and Shade Device Manager.....	8
4.1.	Configure Blueprint to Group by Device Type.....	8
4.2.	Discover and Add a Lamp Controller to the Configuration.....	9
4.3.	Set the Lamp Controller Properties.....	10
5.	Upload Configuration.....	11
	Appendix A: Network Requirements.....	12
	Appendix B: Provision to the Network - WebUI.....	13
	Appendix C: Firmware Information.....	16
	Appendix D: Configure Lamp Control to Function as a Switch.....	17
	Appendix E: Bind Using SmartConnect.....	18
	Appendix F: Bind Using UID Field in Racepoint Blueprint.....	22
	Appendix G: Savant Lighting and Shades Device Manager Basics.....	25
	Appendix H: LED States.....	28

Important Safety Information - Read First

Before installing, configuring, or operating any equipment, Savant recommends that each dealer, integrator, installer, etc. access and read all relevant technical documentation. Savant technical documentation can be located by visiting Savant.com. Vendor documentation is supplied with the equipment.

Read and understand all safety instructions, cautions, and warnings in this document and the labels on the equipment.

Safety Classifications In this Document

NOTE:	Provides special information for installing, configuring, and operating the equipment.
 IMPORTANT!	Provides special information that is critical to installing, configuring, and operating the equipment.
 CAUTION!	Provides special information for avoiding situations that may cause damage to equipment.
 WARNING!	Provides special information for avoiding situations that may cause physical danger to the installer, end user, etc.

Electric Shock Prevention

 ELECTRIC SHOCK!	The source power poses an electric shock hazard that has the potential to cause serious injury to installers and end users.
 ELECTRICAL DISCONNECT:	The source power outlet and power supply input power sockets should be easily accessible to disconnect power in the event of an electrical hazard or malfunction.

Weight Injury Prevention

 WEIGHT INJURY!	Installing some Savant equipment requires two installers to ensure safe handling during installation. Failure to use two installers may result in injury.
---	---

Safety Statements

All safety instructions below should be read, understood, and applied under all relevant circumstances when working with this equipment.

1. Follow all input power ratings marked on product near power input!
2. If fuse replacement is required, replacement fuse should match fuse rating marked on the product.
3. Do not use equipment near water.
4. Clean only with dry cloth.
5. Do not block any ventilation openings or install near any heat sources such as heat registers, stoves, radiators, amplifiers, etc.
6. Refer all servicing to qualified service personnel. Servicing is required when any part of the apparatus has been damaged in any way, or fails to operate normally for any reason.
7. Use only attachments/accessories specified by the manufacturer, following all relevant safety precautions for any such attachments/accessories.
8. For applicable equipment, use the included power cord with the grounding prong intact to insure proper grounding of the device.
9. If the provided plug does not fit the desired outlet, contact a licensed electrician to replace the obsolete outlet.
10. Protect any power cord from being walked on, pinched, strained, or otherwise potentially damaged, especially at the outlet or device connections.
11. Disconnect any outlet powered apparatus from its power source during lightning storms or when unused for long periods of time.
12. To completely disconnect equipment from AC mains power, disconnect the power supply cord plug from the AC receptacle on the device.
13. For any hardwired or fixed in-wall apparatus, carefully follow all wiring diagrams and instructions. All electrical wiring and servicing should be performed by a properly licensed electrician.

1. Before You Begin

Read this document in its entirety before starting deployment of the product, and ensure that the following required items are available:

- Savant Lamp Control (SAV-LMP-0300).....
- Unique ID (UID) of the Lamp Controller.....
Located on the back of the device.
- Savant Host; licensed and running da Vinci software.....
- Smart Connect Application installed on an iOS device.....
- SSID and Passphrase for the Wi-Fi router or switch
- Savant Development Environment (SDE/MacBook).....
Document supports da Vinci 8.10.1 or higher.
- Network meeting Savant requirements.....
See [Appendix A: Network Requirements](#)

 **IMPORTANT!** Device firmware updates are retrieved from the Host. Therefore, ensure the Host has a valid internet connection.

2. Deployment Steps

Follow these steps to successfully deploy the Savant Lamp Control. This page can be used as a checklist to record which steps have been completed.

- Review product specifications and connection details.....
See the device's Quick Reference Guide on the [Savant Customer Community](#).
- Connect hardware.....
See the device's Quick Reference Guide on the [Savant Customer Community](#).
- Provision Lamp Control onto network using SmartConnect.....
See [Provision to the Network - SmartConnect](#)
- Add Lamp Control to a RacePoint Blueprint configuration.....
See [Blueprint Configuration - Lighting and Shade Device Manager](#).

3. Provisioning to the Network Using SmartConnect

Prior to adding the Lamp Control into a configuration in RacePoint Blueprint, the Lamp Control must first be provisioned to the local network. To do this, Savant offers the SmartConnect Application, which is available for download from the Apple App store. The SmartConnect application makes it simple to provision the Lamp Control to the network as well as a host of other tasks. Using SmartConnect is described in this section.

If however, the SmartConnect Application is not available, the Lamp Control can also be provisioned using the embedded Web UI. To provision using the embedded Web UI, refer to [Appendix B: Provision to the Network - Web UI](#).

The next few steps describe how to provision using the Smart Connect application.

 **IMPORTANT!** Verify you are using the following versions of applications.

- SmartConnect version 1.5 or higher.
- Bluetooth version 4.0 or higher

3.1. Required Items for Network Configuration

The following items are required to provision the Lamp Control to the network using the Smart Connect application.

iOS Device with SmartConnect (v1.5 or higher) App installed.....	<input type="checkbox"/>
Lamp Control.....	<input type="checkbox"/>
SSID and Passphrase for the Wireless router or switch.....	<input type="checkbox"/>
Network meeting the Savant Network Requirements.....	<input type="checkbox"/>

(See [Appendix A: Network Requirements](#))

3.2. SSID Guidelines

Savant Wi-Fi products can connect to a wireless network that meets the following SSID guidelines.

Maximum SSID Length:	32 characters
Maximum Passphrase Length:	WPA/WPA2: 8-50 characters
	WEP: 10-26 characters
Wireless Standard:	802.11 b/g/n 2.4 GHz

Supported SSID and Passphrase Special Characters

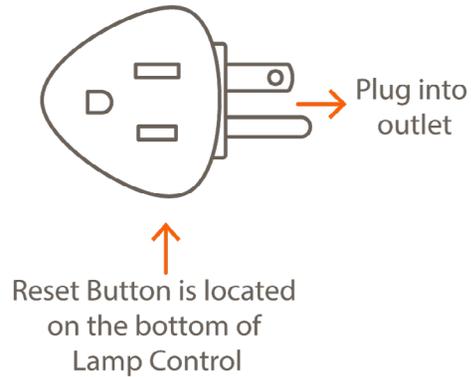
!	#	@	\$	%	^	&	*	()	-	_	`	~
---	---	---	----	---	---	---	---	---	---	---	---	---	---

=	+	,	:	;	?	/	.	<>	[]	{}		,	\
---	---	---	---	---	---	---	---	----	----	----	--	---	---

3.3. Provisioning Using SmartConnect

Provisioning the Lamp Control using the SmartConnect application (v1.5 or higher) is described below.

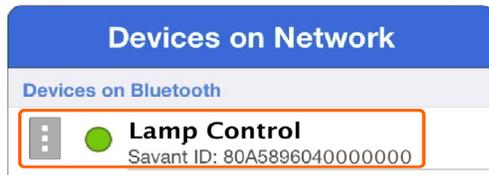
1. Refer to the connections section described in the Quick Reference Guide on the [Savant Customer Community](#) for initial setup and testing information. If the Lamp Control is already set up, skip that section and proceed to step 2 below.
2. By default, a new Lamp Control is set at the factory to be in Access Point Provisioning Mode. The LED will blink yellow once per second. If it is, skip this step and proceed to step 3 below. If the Lamp Control is in some other state than Access Point Provisioning Mode follow the bulleted steps below to set it to this mode.



NOTES:

- Insert a pointed object such as a paper clip into the reset button pinhole. Press and hold the reset button for five seconds until LED blinks red, then release.
- After the reset, the LED will switch to solid yellow while the Lamp Controller boots.
- After approximately 5-10 seconds, the LED on the side of the Lamp Control starts blinking yellow once per second indicating it is in Access Point Provisioning Mode and ready to be provisioned to the local network.
- Refer to [Appendix H: LED States](#).

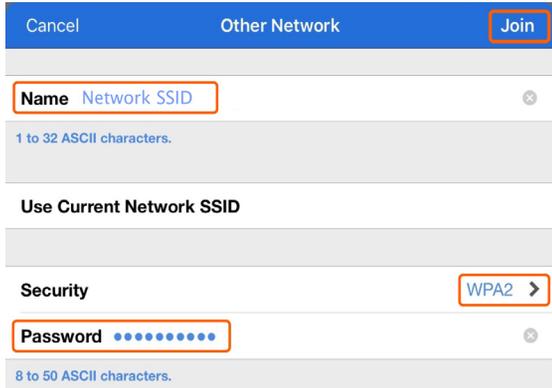
3. On the iOS device (iPad®, iPhone® etc.), open the SmartConnect Application. 
4. Locate the Lamp Control in the **Devices on Bluetooth** section of SmartConnect.
5. Tap the Lamp Control from the **Devices on Bluetooth** dialog window.



TIP! If there are multiple Lamp Controls offered in SmartConnect and the UID of the Lamp Control is unknown, SmartConnect can be used to locate the Lamp Control. To do this, tap one of the Lamp Control devices offered under the Devices on Bluetooth heading. The Status LED on the side of the Lamp Control device will begin to blink rapidly (yellow) for 5-7 seconds and if there is a lamp connected, the lamp will flash 5-7 times with the LED. If this is not the intended Lamp Control, tap Cancel in the Pick a Network window that opens. Continue till the Lamp Control you would like to provision is located.

6. In the **Pick a Network** dialog window that opens, tap the **Join Other Network...** selection (image not shown).

7. In the **Other Network** dialog window that opens (shown below), enter the following:



Name - Enter SSID of the network.

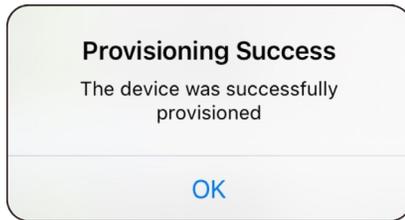
Security - Tap **Choose** in the Security field and select the security configured in the local network.

Password - Enter Password to the local network

 **TIP!** Tap the **Use Current Network SSID** field to auto populate the Name field with the SSID of the local network that the iOS device is currently communicating on.

8. Tap **Join** when complete.

A **Provisioning Success** dialog window will open informing the user that the device successfully provisioned to the network. Tap **OK**.



The Lamp Control is now provisioned to the local network. The LED on the side of the Lamp Control will now blink green indicating it is connected to the network but has not established a binding to the Savant Pro System. Refer to [Appendix H: LED States](#) for more information.

Additional Information

The provisioned Lamp Control will now be displayed in the **Devices on Wi-Fi** section of SmartConnect. The next step is to configure the Lamp Control into RacePoint Blueprint and bind to the Savant Pro System.

4. Blueprint Configuration - Lighting and Shade Device Manager

These instructions describe how to add a Savant lamp controller to a Blueprint configuration when both the configuration and binding processes are completed on-site. During this process, an integrator walks around the job site with a Blueprint configuration loaded on an SDE/MacBook. Using the Lighting and Shades Device Manager from Blueprint, each lamp controller is discovered, added to an existing configuration, and then bound. In this process, no lighting configuration is required prior to getting to the job-site.

HELPFUL (READ BEFORE PROCEEDING)

- Ensure the lamp controller is plugged into an AC outlet and a lamp is plugged into the lamp controller's output.
- Close the rpmEmbeddedScanner application. The Lighting and Shades Device Manager will not function while this application is open.

4.1. Configure Blueprint to Group by Device Type

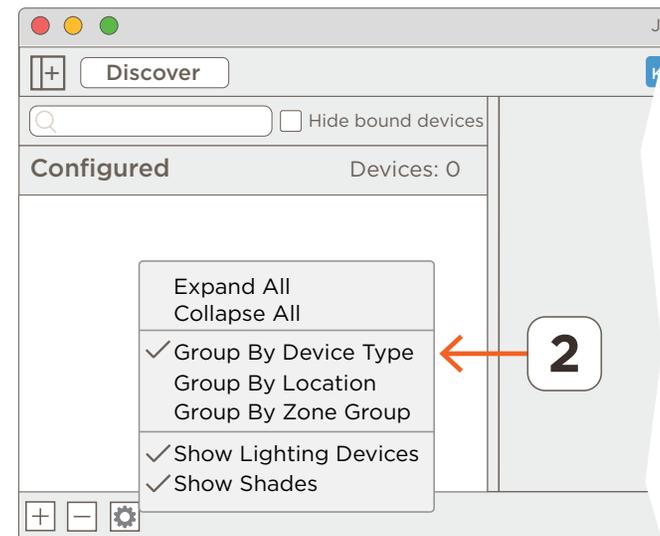
The lamp controllers in the Lighting and Shades Device Manager can be listed By Device Type, By Location, or By Zone Group. Grouping By Device Type is the easiest to view and understand.

1. From the Blueprint menu-bar, open the Lighting and Shades Device Manager (not shown in image):
 - **9.4 and above** - Tools > Savant Lighting and Shades Device Manager
 - **9.3.5 and below** - Tools > Savant Lighting and Keypads

 **HELPFUL!** In an existing configuration, when the Savant Lighting and Shades/Keypads field is grayed out (inactive), this indicates that a change to the Blueprint configuration was made and the services need to be generated. Select the **Generate Services** icon in the Blueprint toolbar to activate this field. When building a new Blueprint configuration and the Lighting and Shades/Keypads field in the menu-bar is grayed out, the easiest way to activate is to do the following:

- Add a network switch to the Blueprint layout window.
- Make an Ethernet connection from the network switch to the system Host.
- Select **Generate Services**

2. Select the gear icon at the bottom of the Configured window and choose **Group By Device Type**.



4.3. Set the Lamp Controller Properties

The previous section adds the lamp controller to the configuration. Next, a few of the property fields to the lamp controller can be set. Not all fields need to be configured for the lamp controller to be deployed.

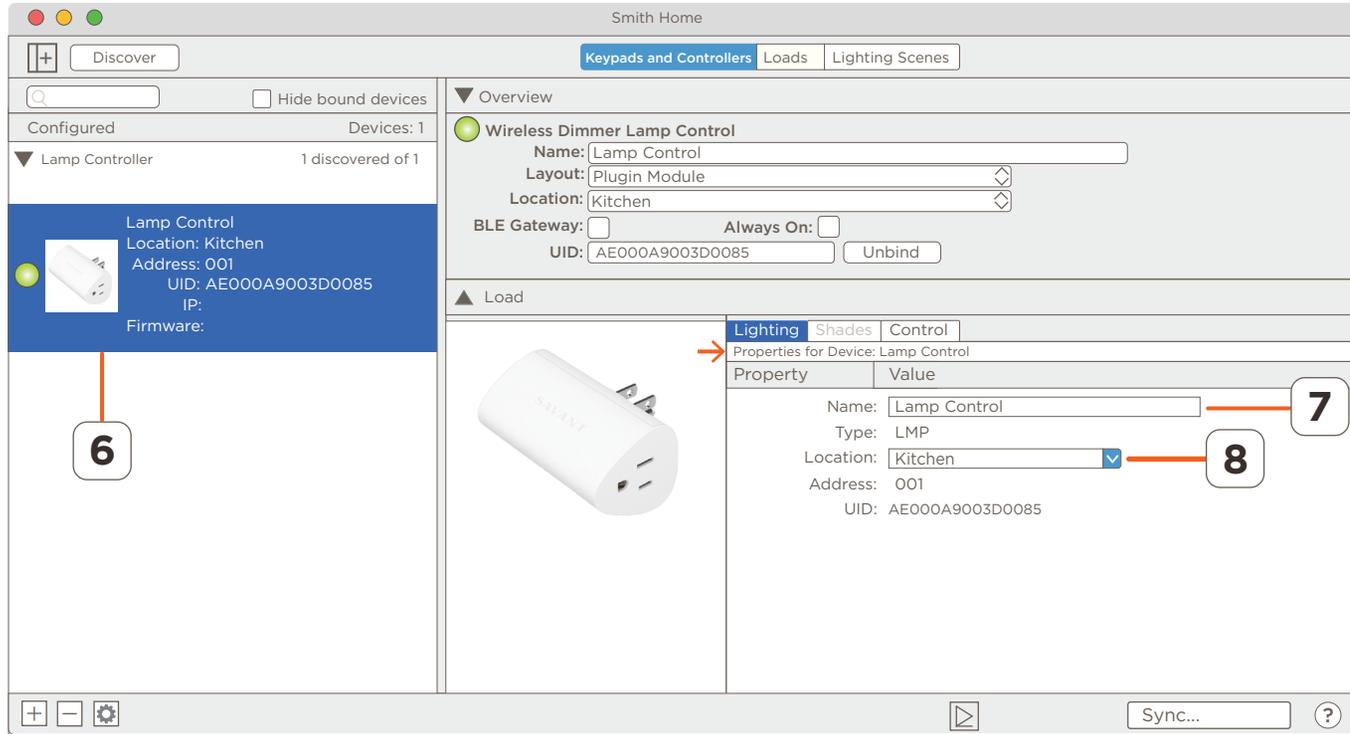
6. Highlight the lamp controller from the previous section.

NOTE: The discovered window is not needed to complete the remaining instructions, so it is not shown in the following image.

7. Enter a **Name** that identifies the lamp controller.

NOTE: The name can be updated in either of the two **Name** fields in this window.

8. Set the **Location** field. This is typically the room the lamp controller is located.



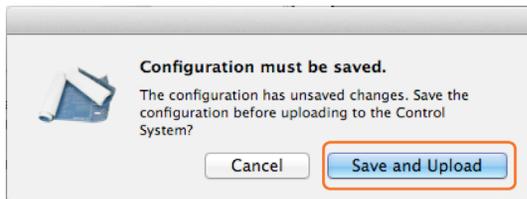
5. Upload Configuration

After the Lamp Control is added to Blueprint and configured, the configuration with the Lamp Control information can be uploaded to the Host.

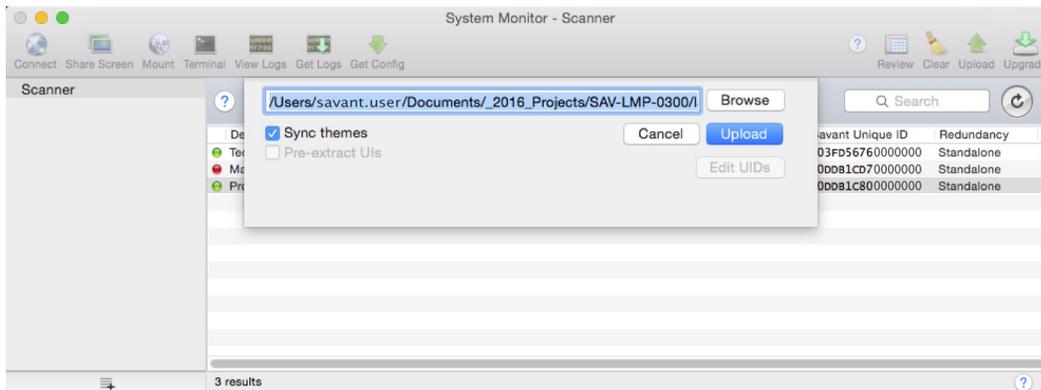
1. To upload the configuration, select the **Upload to Master** icon from the Blueprint toolbar and send the configuration to the Host.



2. In the **Configuration must be saved** dialog window that opens, read the dialog and select **Save and Upload**.



3. The System Monitor application will automatically open as displayed below. Verify the path to the configuration file is correct. Select **Upload** when satisfied.



4. The configuration will now upload to the Host and the Host will begin communicating with the Lamp Control. The Status LED on the side of the Lamp Control will illuminate solid (green) indicating it is connected to the network and bound to the configuration running on the Host.

Appendix A: Network Requirements

Savant requires the use of business class/commercial grade network equipment throughout the network to ensure the reliability of communication between devices. These higher quality components also allow for more accurate troubleshooting when needed.

Connect all Savant devices to the same local area network (LAN) or subnet as the Host. Savant recommends not implementing any type of traffic management, packet shaping, band steering, QoS or similar features within the network topology for Savant devices, as this may interfere with performance.

Managing IP Addresses

To ensure that the IP Address will not change due to a power outage, a static IP Address or DHCP reservation should be configured. Savant recommends using DHCP reservation within the router. By using this method, IP Addresses for all devices can be managed from a single UI avoiding the need to access devices individually.

Setting a Static IP Address

Setting a Static IP Address can be done in the Web UI on the Network Tab.

Setting DHCP Reservation

Setting DHCP reservation varies from router to router. Refer to the documentation for the router to configure DHCP reservation.

Network Changes

It is good practice to reboot (power cycle) the Lamp Control after changing routers, or if the IP address range is changed in the current router.

Cycle Power

- Disconnect the Lamp Control from the power source.
- Wait 15 seconds and then reconnect.

To Reset to Factory Defaults

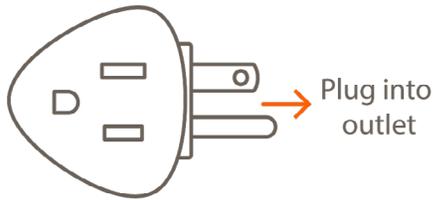
- Press & Hold the Reset Button on the bottom side of the Lamp Control for 5 seconds until the Status LED starts a rapid blink (red). Release the Reset button once the rapid blink begins. Allow 10-15 seconds for the controller to reset. See the LED Status section for LED state information.

NOTE: For information on networking requirements, see the Savant Device Networking Guide on the [Savant Community](#).

Appendix B: Provision to the Network - WebUI

If the SmartConnect application is not available, the Lamp Control can be provisioned using the embedded Web UI in the Lamp Control.

1. Plug the lamp controller into a 120V AC outlet.
2. By default, a new Lamp Control is set at the factory to be in Access Point Provisioning Mode. If it is, skip this step and proceed to step 3 below. If the Lamp Control is in some other state than Access Point Provisioning Mode follow the bulleted steps below to set it to this mode.

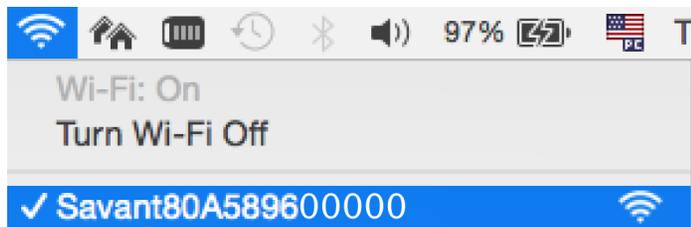


NOTES:

- Insert a pointed object such as a paper clip into the reset button pinhole. Press and hold the reset button for five seconds until LED blinks red, then release.
- After the reset, the LED will switch to solid yellow while the Lamp Controller boots.
- After approximately 5-10 seconds, the LED on the side of the Lamp Control starts blinking yellow once per second indicating it is in Access Point Provisioning Mode and ready to be provisioned to the local network.
- Refer to [Appendix H: LED States](#) for more information.

Reset Button is located
on the bottom of
Lamp Control

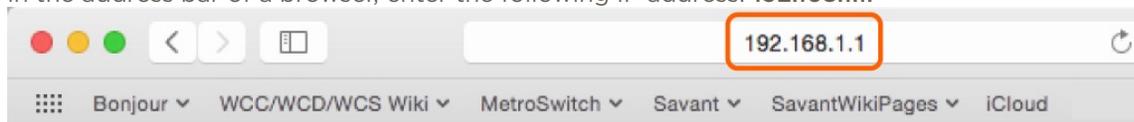
3. On the MacBook/SDE, select the Wi-Fi icon in the menu bar and select the Lamp Control from the available networks. The Lamp Control will appear as **Savant[Mac Address]**. The Mac Address is the first 12 characters of the Savant UID. The check indicates the controller is connected to your MacBook/SDE.



Savant with Mac Address
appended

HELPFUL INFO: If the UID is not known, the rpmEmbScanner application that is accessed through the Launch menu in the Savant Application Manager (SAM) can be used to find the Mac Address.

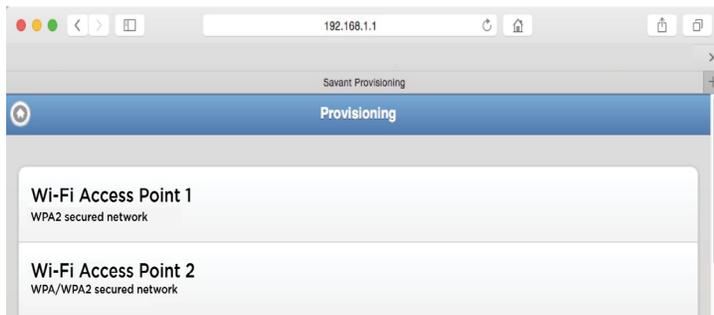
4. In the address bar of a browser, enter the following IP address: **192.168.1.1**.



5. Select Provisioning to display a list of available networks.



6. In the list of available networks, select the network to connect.



Note: Refer to the **Additional Information** section below if your network is not in the list of available networks.

7. Follow the prompts and enter the Passphrase to the network selected.
8. Once connected, a verification message will appear.



9. The Lamp Control is now provisioned to the local network. The LED on the side of the Lamp Control will now blink green indicating it is connected to the network but has not established a binding to the Savant Pro System. Refer to [Appendix H: LED States](#).

Additional Information

If the desired network does not appear in the list, it can be manually configured to a network by selecting **Other SSID** at the bottom of the list of available networks and follow the prompts.



Select **Other SSID** if the local network does not appear in the list of available networks

- The Lamp Control will now be displayed in the **Devices on Wi-Fi** section in SmartConnect.
- The status LED on the Lamp Control will now blink green once per second. This indicates it is provisioned to the local network but not bound to the configuration running on the Host.

Appendix C: Firmware Information

Firmware updates are automatic and occur each time the software is updated on the Savant Control System Host. After a software upgrade, the Host scans the network and compares the firmware version loaded in the Lamp Control with the firmware in the updated da Vinci software. If an update is available, the update process will begin automatically at that time.

Additional information on the **Firmware Upgrade Status** and **Firmware Revision** currently installed on the controller can be accessed through the System Monitor Application.

System Monitor > Savant Lighting > Go To Lighting Page > System Health > Firmware Upgrade

Below is the Firmware Upgrade page:

Savant System Host - 192.168.1.235 (Host)
System Status
Online

Disconnect

GENERAL

- System Dashboard
- Controller Info
- Processes
- Diagnostic Reports
- System Licenses
- Configuration Info
- Host Claiming

CONTROL

- System State
- Service Events
- Services
- Component Status

AV

- Audio Controls
- Video Controls
- AV Connections
- EDID Settings
- Sonos Info
- WISA Info
- UPnP Discovery

ENVIRONMENT

- Savant Lighting

Back Firmware Upgrade Wifi Coverage Device Quality Message Monitor

Firmware Upgrade

Sort by Upgrade Status Descending Filter by...

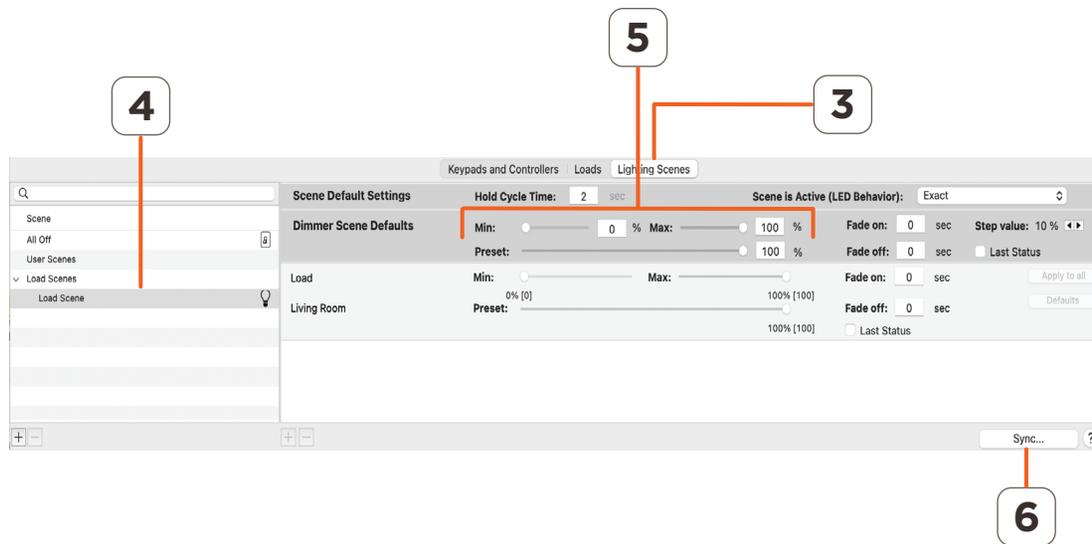
Device Name	Status	Version	Available Version	Wi-Fi Version	Radio Version
Lamp Control	Up to date	1.9.301	1.9.301	4.13.2	14.66.33.p120

Devices Scans System Health

Appendix D: Configure Lamp Control to Function as a Switch

Follow the steps described below to configure the Lamp Control to operate as an On/Off switch. The procedure assumes the Lamp Control has already been added to the configuration and is working as a Dimmer.

1. Open the RacePoint Blueprint configuration.
2. Open the Lighting and Shades Device Manager from the menu bar (**Tools > Savant Lighting and Shades Device Manager**).
3. Select the **Lighting Scenes** tab (see image below for steps 3-6).
4. Select the Lamp Control load scene.
5. Modify the Min value of this load scene to 0% and the Max value to 100%.
6. Select the **Sync** button and follow the prompts to update the lighting data table with the changes made.



- During the Sync operation, the lighting data table opens. Locate the Lamp Control being modified. Change the value in the Entity column of the Lamp Control from Dimmer to Switch (see image below).

Enabled	Identifier	Location	Entity	Label	Address [1]	Address [2]	Address [3]	Address [4]	Address [5]	Address [6]	Controller	Button Label	Toggle Label	Savant Keypad
<input checked="" type="checkbox"/>	10	Family Room		Recessed Lights - FR	001	1						Recessed...	Dimmer 1	Family Room
<input checked="" type="checkbox"/>	11	Family Room		Corner Lamp - FR	002	1						Corner La...		Lamp Control Family Room
<input checked="" type="checkbox"/>	12	Family Room		All Off	All Off							All Off	All Off	
<input checked="" type="checkbox"/>	16	Family Room	Switch	Switch 120VAC	1						WPS Wall Plug	Switch 12...	Switch 12...	
<input checked="" type="checkbox"/>	17	Family Room		Recessed Lights	001	1					Savant Pro...	Recessed...	Dimmer - Family Room	
<input checked="" type="checkbox"/>	18	Family Room	Dimmer	Corner Lamp	002	1					Savant Pro...	Corner Lamp	Lamp Control - Family Room	
<input checked="" type="checkbox"/>	19	Family Room		All Off	All Off						Savant Pro...	All Off	All Off	

- Select **Done** when complete.
- Select **Generate Services** from the RacePoint Blueprint toolbar and follow the prompts.

 **HELPFUL INFO:** After Generating the Services, the State Icon in the RacePoint Blueprint toolbar changes to green, verify the Lamp Control in the lighting data table is still set to switch (**Tools > Settings > Lighting**).

- Upload the updated file to the Savant Pro System Host.
- Test and verify the Lamp Control has switch (On/Off) controls in the Savant Remote and the Savant Pro 8 App. Select On or Off to toggle the load.

Appendix E: Bind Using SmartConnect

Once the configuration is uploaded to the Host, the Lamp Control bindings can now be established.

Before beginning the process, verify the following:

- The Lamp Control is provisioned and communicating with the local network.
- The Lamp Control is configured in RacePoint Blueprint and the configuration was uploaded to the Pro System Host.

Tools Required

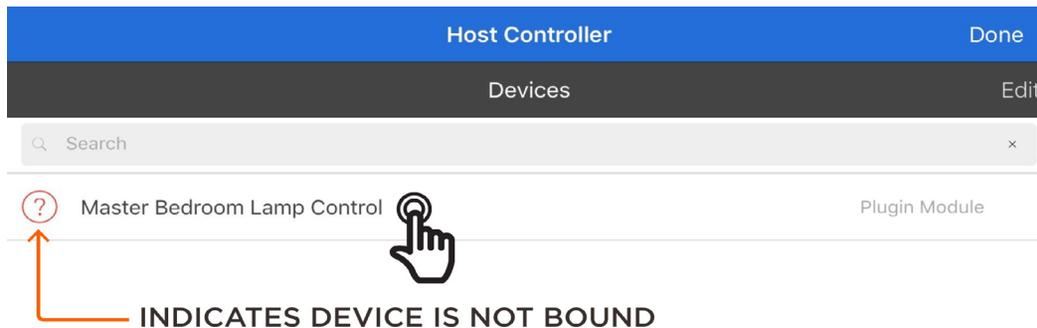
- iOS device such as an iPad® or iPhone® that supports Bluetooth V4.0 with the Savant SmartConnect application installed.

Download and Install SmartConnect

If the SmartConnect Application is not installed on your iOS device, it can be downloaded from the Apple App Store. To find the SmartConnect App on the App store, search for **Savant SmartConnect**. Once located, download to your iOS device. The SmartConnect Application automatically gets installed once downloaded.

Once the configuration is uploaded to the Host, the Lamp Control bindings can now be established.

1. Connect the iOS device to the network that the Savant Pro System Host is connected to.
2. Tap the  icon to open the SmartConnect application.
3. Locate the Smart or Pro Host (Savant ID) from the list of devices under the **Devices on WiFi** section. Tap the Host Controller to open the devices page.
4. On the Devices page that opens (image below), the Lamp Control will be available. A question mark in the field indicates the Lamp Control is not bound to the configuration running on the Host. Tap the Lamp Control to open the Device Binding page.

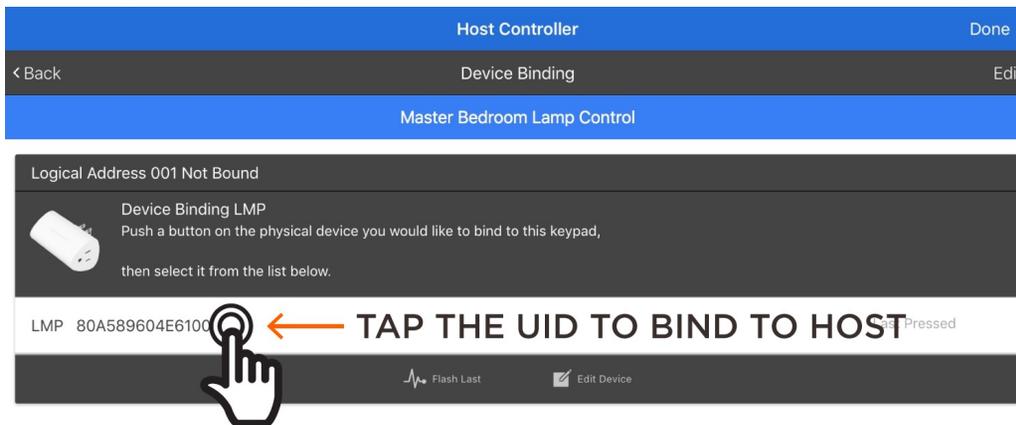


5. A Device Binding page opens (image below) and requests: Push a button on the physical device you would like to bind to this virtual device.



Using a small pointed object such as a paper clip, press and release the reset button positioned at the bottom of the Lamp Control. Once pressed, the UID for the device being bound is displayed on the Device Binding page. See image in step 6 below.

6. Tap the UID that appeared. This binds the Lamp Control to the configuration running on the Host. The LED on the side of the Lamp Control will now be on solid green indicating it is connected to the network and bound to the configuration running on the Host.



7. Verify the device is bound by tapping the **Flash Last Pressed** icon. The lamp plugged into the Lamp Control will flash three times and the Status LED on the Lamp Control will blink yellow each time the Lamp flashes. This indicates the Lamp Control is configured and communicating with the Host.

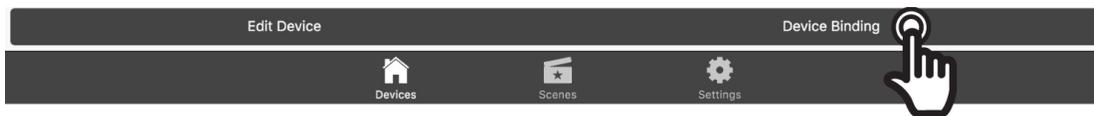


8. Select the **<Back** button and repeat steps above to bind all Lamp Controls in the configuration to the Savant Control System Host.

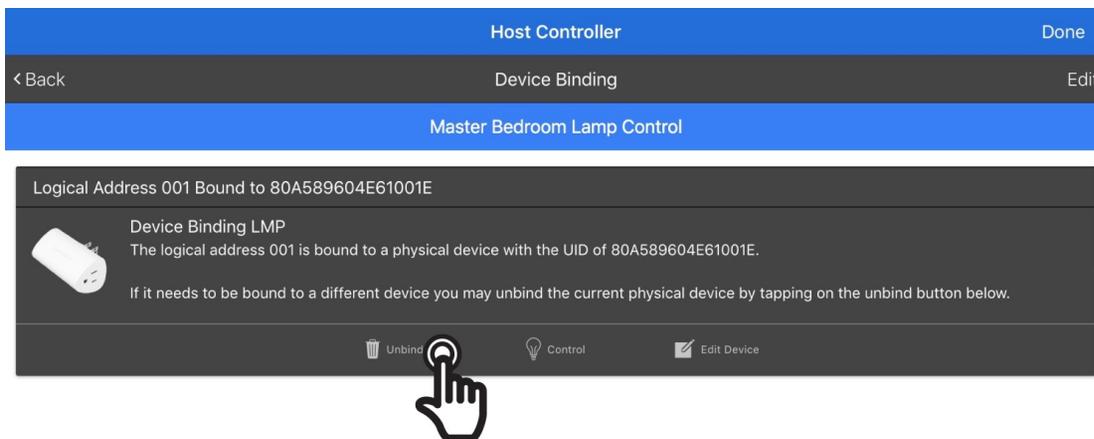
Unbind Process

There are some scenarios such as when a Host or Lamp Control is being replaced; the Lamp Control needs to be unbound from the configuration running on the Host before binding the new Lamp Control device.

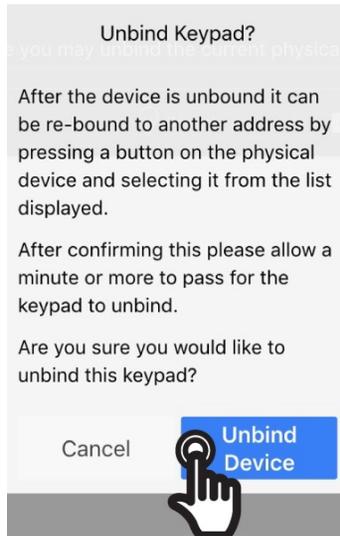
1. Connect the iOS device to the wireless network that the Savant Control system is utilizing.
2. Open the SmartConnect application. 
3. Locate the Smart or Pro Host (Savant ID) from the list of devices under the **Devices on WiFi** section. Tap the Host Controller to open the devices page.
4. In the Devices page that opens, tap the **Lamp Control** to open the Device Control page.
5. Tap the **Device Binding** tab on this page.



6. In the Device Binding page that opens, tap **Unbind**.



7. An **Unbind Keypad?** window will open. Read the dialog and tap **Unbind Device** if OK to unbind.



8. The Lamp Control will no longer be bound to the Host and a new Lamp Control can be added.

Appendix F: Bind Using UID Field in Racepoint Blueprint

Establishing the bindings using the UID field in RacePoint Blueprint is described below. This process is typically used if the Bind/Un-Bind button process does not work. This process manually enters the UID into the configuration running in RacePoint Blueprint.

Savant Lighting and Shades Device Manager - Establish Bindings

Use the SmartConnect application to locate the UID of the Lamp Control. The UID is needed during the binding process. Refer to the [Provisioning to the Network Using SmartConnect](#) section for information on obtaining the UID through SmartConnect.

1. In the menu bar, select **Tools>Savant Lighting and Shades Device Manager**.
2. Select the **Keypads and Controllers** tab.
3. Select the Lamp Control from the list of lighting devices.
4. Double-click the UID field and enter the UID of the Lamp Control (see image below)

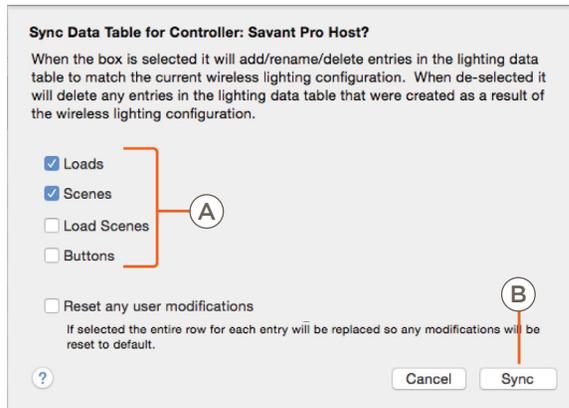
The screenshot shows the configuration interface for a 'Wireless Dimmer Lamp Control'. The 'Name' field is set to 'Lamp Control', 'Layout' is 'Plugin Module', and 'Location' is 'Living Room'. There are checkboxes for 'BLE Gateway' and 'Always On'. The 'UID' field contains 'XXXXXXXXXXXX001E'. A red arrow points from the text 'Double Click and Enter UID of Lamp Controller' to the UID field. Below this is a 'Load' section with 'Load Name' set to 'Load', 'Location' set to 'Living Room', and 'Load Address' set to '1_001'. There are also sliders for 'Min Level' (set to 0) and 'Max Level' (set to 100), and a checkbox for 'Follow Daylight Mode'.

5. Repeat steps 3 and 4 above and add the UID to the UID field of all the Lamp Controls in the lighting devices list. Close Savant Lighting and shades when done.

Populate/Update the Lighting Data Table

Once the Lamp Control(s) are added and configured, the information needs to be populated in the lighting data table. Follow the steps below to do this.

1. Select the button in bottom right corner of the Keypads tab and the dialog window shown below opens.



2. Using the descriptions below, check or uncheck the appropriate boxes.

A **Checked** - Any user modifications made are discarded. Any boxes checked (Loads, Scenes, Load Scenes, Buttons) will cause the entry in the lighting data table to revert to the default values.

Unchecked (Default) - Any user modifications made to the data table are transferred to the lighting data table. For this to occur, the boxes described above (Loads, Scenes, Load Scenes, Buttons) that are associated with the updates must be checked.

i **HELPFUL INFO:** When updating or creating a lighting data table, it is recommended that a check be added to only the Loads and Scenes boxes. Each box checked adds additional buttons and icons to the Savant Pro 8 or TrueControl II Apps. Adding a check to the Load Scenes and Buttons boxes are typically used when troubleshooting.

3. Select the Sync button to update the lighting data table with an updated configuration.

! **IMPORTANT!** The data table that gets modified only affects the TrueControl II and Savant Pro 8 Apps. Any modifications made here do not affect the Lamp Control configurations.

4. After the Sync button is pressed, the updated lighting data table opens as displayed below.

Enabled	Identifier	Location	Entity	Label	Address [1]	Address [2]	Address [3]	Address [4]	Address [5]	Address [6]	Controller	Button Label	Toggle Label	Savant Keypad
<input checked="" type="checkbox"/>	0	Master Bedroom	Dimmer	Nightstand Lamp	001	1					Savant Pro...	Nightstan...		Master Bedroom Lamp Control
<input checked="" type="checkbox"/>	1	Master Bedroom	Scene	All Off	All Off						Savant Pro...	All Off	All Off	

Show Advanced Columns Please "Generate Services" for this configuration in order to view/modify all columns of this table.

Enable All Regenerate All Savant App Zone Map

Disable All TrueControl Zone Map

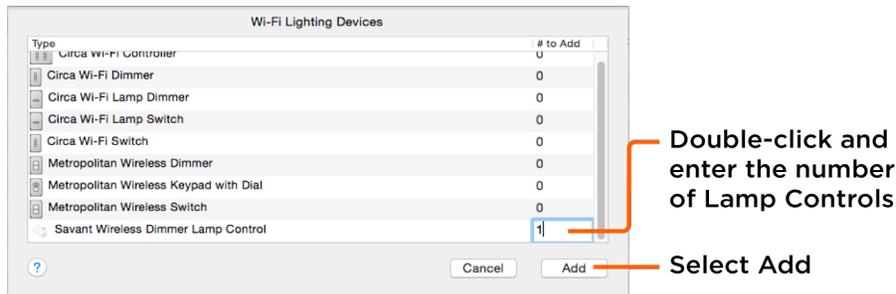
Import Export

Cancel Done

5. Select **Done** when Complete.
6. Select the **Generate Services** icon in the Blueprint toolbar. The State icon will change to blue or green indicating the services for the Lamp Control has been created.
7. Select **Update All UI Screens > Sync with Services** from the Blueprint toolbar to sync the user interfaces such as the iPad® to the Services created. The State icon will change to green when complete.
8. Select **File > Save** from the Blueprint menu bar.

Appendix G: Savant Lighting and Shades Device Manager Basics

1. Navigate to **Tools** in the upper toolbar.
2. Under Tools, select **Savant Lighting and Shades Device Manager**.
3. **Savant Lighting and Shades Device Manager** has three tabs:
 - Keypads and Controllers
 - Loads
 - Lighting Scenes
 - Select **Keypads and Controllers**.
4. Select the  icon to open the Lighting Devices window.
5. Under the **# to Add** column, double-click the field associated with the Lamp Control and enter the number of Lamp Control(s) (see image below).



5. Select the **Add** button to add the Lamp Control to the Blueprint configuration (See image on the previous page). The number of Lamp Controls entered is added (See image below). Label and configure the Lamp Control(s).

A	Enter a name that identifies where the Lamp Control is located. The identifier should make it easy to find the Lamp Control when entering the room selected in the Location column described below. To modify, double-click to highlight and enter the new name.
B	Displays the layout of the Lamp Control and cannot be modified.
C	Select the room or zone where the Lamp Control is located.
D	Enter a name that identifies where the load plugged into the Lamp Control is located. The identifier should make it easy to locate the lamp/load when entering the room specified in the Location column. To modify, double-click the text and enter a new identifier. The name entered will also be displayed in the TrueControl II or Savant Pro App as the device being controlled.

6. Save the configuration (**File > Save** from the Blueprint menu bar).

Load Scenes/Update the Lighting Data Table

When a Lamp Control is added to the Savant Lighting and Shades Device Manager, a load scene for that device is automatically generated. The load scene created is by default associated with the Lamp Control added. If modifications to the parameters of the load scene are required, they are modified from within the Lighting Scenes tab.

To modify a load scene, follow the steps below.

1. Select the **Lighting Scenes** tab.
2. Select the **Show Load Scene** check box in the bottom left corner of the Lighting Scenes window that opens. Adding a check to this box will display the load scene(s) generated in the Scene panel.



HELPFUL INFO: Selecting Show Load Scenes check box described above is because any load scenes generated when adding a lighting device are not initially displayed.

3. In the Scene panel, select the load scene for the Lamp Control added.
4. Modify the fields in the Dimmer tab as required. Use the descriptions in the table below.

Section	Parameter	Value
Scene Default Settings	Hold Cycle Time	2 sec
	Scene is Active (LED Behavior)	Exact
Dimmer Scene Defaults	Min	0 %
	Max	100 %
	Fade on	0 sec
	Fade off	0 sec
Load	Min	0% [0]
	Max	100% [100]
	Fade on	0 sec
Load 1	Min	0% [0]
	Max	100% [100]
	Fade on	0 sec
Load 2	Min	0% [0]
	Max	100% [100]
	Fade on	0 sec
Switch Scene Defaults	State	Off
Fan Scene Defaults	State	Off

Dimmer	Where the load scene settings for a dimmer type device are modified.
Dimmer State	Sets the maximum amount of power (in %) that can be applied to the Lamp Control.
Min% / Max%	<p>Min: % - Sets the minimum amount of power (in %) required to turn on the load plugged into the Lamp Control.</p> <p>Max: % - Sets the maximum amount of power (in %) required to light the load to its full capacity.</p> <p>With these two fields set correctly, the output power sent to the lamp plugged into the Lamp Control is more granular and the power curve more linear. These fields may need adjustments because of the different types of lamps available (LED, Incandescent, CFL).</p> <p>Auto- Correction Functions:</p> <p>The Lighting/Keypad Manager has auto correction software built into it so the values set can never exceed the predetermined limits set.</p> <ul style="list-style-type: none"> •The Dimmer State can't be set lower than the Min: % value or higher than the Max: % value. If the value in the Dimmer State field is outside these parameters, an alert is displayed. <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> The value 50 is too small. The value 91 is too large. </div> <ul style="list-style-type: none"> •If the Min: % value is set higher than the Dimmer State value the Lighting/Keypad Manager adjusts the value to match the Min: % value set. •If the Max: % value is set lower than the Dimmer State, the Lighting/Keypad adjusts the value to match the Max: % value set.
Fade On	Sets the time (seconds) it will take for the load to rise to the level of brightnss set in the Max%.
Fade Off	Sets the time (seconds) it takes for the power applied to the load to decrease to Off.
Hold Cycle Time	Sets the time it takes for a command to complete when a button is pressed and held. For example, if set to 10 seconds, it will take 10 seconds for the load to ramp from 0 to the preset level set in the load scene.
Scene is Active	Sets the feedback or response observed in the TrueControl II or Savant App. For example, if set to Exact, the feedback observed in the Savant or TrueControl II App follows how the setting Exact will react.

Appendix H: LED States

Off - No Power

On Solid (Green) - Connected to the network and bound to the configuration running on the Savant Control System Host.



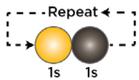
On Solid (Yellow) - Lamp Control is booting after being reset.



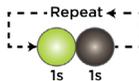
On Solid (Red) - Error Mode caused by an over current condition. When this occurs, unplug the Lamp Control, wait ten seconds and plug back in. This will reset the error condition.



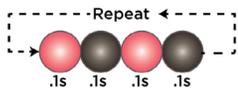
Blinks Once (Yellow) - In Access Point Provisioning Mode and ready to be provisioned to the local network.



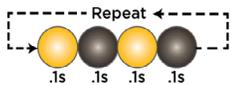
Blinks Once (Green) - Provisioned and communicating with the local network. Not currently communicating with the Savant Control System Host (Not bound to the Host).



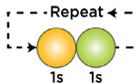
Rapid Blink (Red) - The reset button was held down for at least five seconds. When button is released, the rapid blink will stop and the Lamp Control will reset to Access Point Provisioning Mode.



Rapid Blink (Yellow) - When activating the locate feature, the LED will blink yellow.



Blinking Yellow/Green - Firmware is updating.



Important Notice

Disclaimer

Savant Systems, Inc. reserves the right to change product specifications without notice, therefore, the information presented herein shall not be construed as a commitment or warranty.

Savant Systems, Inc. shall not be liable for any technical or editorial errors or omissions contained herein or for incidental or consequential damages resulting from the performance, furnishing, reliance on, or use of this material.

Patents

Certain equipment and software described in this document is protected by issued and pending U.S. and foreign patents.

All products and services are trademarks or registered trademarks of their respective manufacturer.

Copyright

This document contains confidential and proprietary information protected by copyright. All rights reserved. Copying or other reproduction of all or parts of this document is prohibited without the permission of Savant Systems.

Trademarks

© 2022 Savant Systems, Inc. All rights reserved. Savant, Savant App, TrueImage, Savant Host, Now You Can, RacePoint Blueprint, Single App Home, TrueCommand, TrueControl, and the Savant logo are trademarks of Savant Systems, Inc.

AirPlay, Apple, AirPort Express, AirPort Extreme, Apple TV, Apple Remote Desktop, FireWire, iMac, iTunes, iPad, iPad mini, iPad Air, iPhone, MacBook, Mac and OS X are trademarks or trade names of Apple Inc. iOS is a trademark of Cisco®. Android, Google, Google Play, and other Google marks are trademarks of Google, Inc. Wi-Fi is a registered trademark of the Wi-Fi Alliance®. NETGEAR®, the NETGEAR Logo and ProSAFE are trademarks of NETGEAR, Inc. Extreme™ is a trademark of Extreme Networks, Inc.

All other brand names, product names, and trademarks are the property of their respective owners.

Technical and Sales Support

Savant Systems, Inc. is dedicated to providing prompt and effective support in a timely and efficient manner.

- To contact Savant Support, access the [Savant Customer Community](#) and enter a support Case ticket.
- To contact Savant Sales, visit [Savant.com](#) and select Contact Us to locate a local sales representative in your area.