SAVANT

Savant® Music Single Stream Servers

SMS-1001-00/SMS-100AM

Deployment Guide

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Contents

To access the link to the topics in this document, click the topic page.

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Important Safety Information - Read First

Before installing, configuring, and operating Savant equipment and other vendor equipment, Savant recommends that each dealer, installer, etc. access and read all the required 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 of the Savant equipment requires two installers to ensure safe handling during installation. Failure to use two installers may result in injury.

Safety Statements

Follow all the safety instructions listed below and apply where relevant. Additional safety information will be included where appropriate.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. To completely disconnect this equipment from the AC mains, disconnect the power supply cord plug from the AC receptacle.

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1. Introduction

This Deployment Guide will step the installer through the process of installing, configuring, and adding a Savant Music Server (SMS-1001/SMS-100AM) to a Savant Pro System.

1.1. Before You Begin

Read through this document in its entirety. Before beginning the installation, ensure that the following items are available:

- ☐ Savant Music Server 1 (SMS-1001-xx)
  or Savant Music Single Stream (SMS-100AM-xx)
- ☐ Host (Smart/Pro/Simple)
  SMS-1001 requires da Vinci 8.3 or higher
  SMS-100AM requires da Vinci 8.6 or higher
- ☐ Unique ID (UID) of the SMS (label located on bottom of unit)
- ☐ Savant Development Environment (SDE/MacBook®)
  RacePoint Blueprint da Vinci 8.3 or higher
- ☐ Network meeting Savant requirements
  See Appendix A: Network Requirements

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2. Deployment Checklist

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

1. Review product specifications and connection details ☐
   See SMS Overview

2. Install the Hardware ☐
   See Installation

3. Update the Savant Host and SDE/MacBook to da Vinci 8.3 or higher ☐
   Refer to the following documents on the **Savant Customer Community**.
   - da Vinci Smart and Pro Upgrade Deployment Guide – Update da Vinci on Host
   - Savant Application Manager (SAM) Reference Guide – Update da Vinci on SDE/Mac Book

4. Add a SMS to RacePoint Blueprint ☐
   See Blueprint Configuration

5. Upload Configuration ☐
   See Upload Configuration

3. Box Contents and Specifications

For Box Contents and Specifications, refer to the SMS-1001/SMS100AM Quick Reference Guide which is located on the **Savant Customer Community**.

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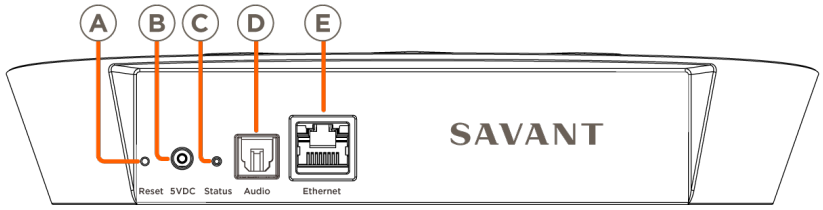
4. SMS Overview

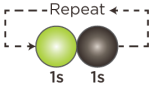
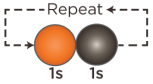
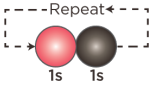
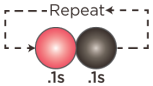
4.1. SMS-100AM

The Savant Music Single Sream (SMS-100AM) is a single-source music player that can be added to any Savant Distributed Audio system via a Digital Audio (Toslink) connection. The next few sections give an overview of the hardware. It is important to read and understand the next few sections before starting the installation process.

The connections and SMS-100AM status LEDs are all located on the rear panel of the SMS-100AM. Information about each is provided below.

Ⓐ	Reset	Clears the network settings. Press and hold the Reset button for five seconds until Status LED blinks red rapidly. See **Rapid Red Blink** below.
Ⓑ	Input Power	Connect included power supply



Ⓒ		**Off** - The processor is resetting, or system is powered up and is currently booting the embedded firmware.
		**Green:** Connected/Communicating with the Pro System Host.
		**Red:** During the firmware update process, a problem occurred and a reset will be initiated.
		**Orange:** Firmware update is in process.
		**Green Blinking:** Was assigned an IP Address and is communicating with the local network, but not communicating with the Pro System Host.
		**Orange Blinking:** A valid link-local IP Address is established and SMS-1001 is trying to connect with the Pro System Host.
		**Red Blinking:** Embedded firmware is running, but SMS-1001 has not received an IP Address.
		**Rapid Red Blink:** The reset button was pressed and held for five seconds and SMS-1001 is performing a factory reset.
Ⓓ	Audio	Toslink (Optical) digital audio output port. Connects to a digital audio input on a switcher chassis for streaming Savant Music. An adapter may be required to connect to ports other than Toslink.
Ⓔ	Ethernet	10/100/1000 Base-T auto negotiating (8-pin RJ-45 female).

⚠ **IMPORTANT!** Please note the deployment process for the SMS-100AM is the same as the SMS-1001. The SMS-100AM does not have control ports, but this will not impact the process.

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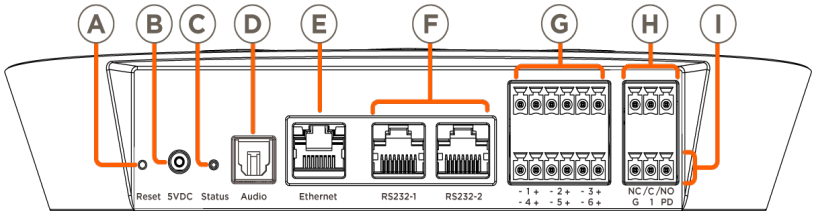
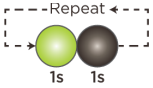
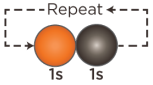
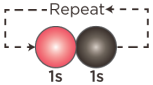
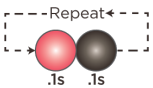
4.2. SMS-1001

The Savant Music Server 1 (SMS-1001) is a single-source music player that can be added to any Savant Distributed Audio system via a Digital Audio (Toslink) connection. The next few sections give an overview of the hardware. It is important to read and understand the next few sections before starting the installation process.

The connections and SMS-1001 status LEDs are all located on the rear panel of the SMS-1001. Information about each is provided below.



A	Reset	Clears the network settings. Press and hold the Reset button for five seconds until Status LED blinks red rapidly. See **Rapid Red Blink** below.
B	Input Power	Connect included power supply
C		**Off** - The processor is resetting, or system is powered up and is currently booting the embedded firmware.
		**Green:** Connected/Communicating with the Pro System Host.
		**Red:** During the firmware update process, a problem occurred and a reset will be initiated.
		**Orange:** Firmware update is in process.
		**Green Blinking:** Was assigned an IP Address and is communicating with the local network, but not communicating with the Pro System Host.
		**Orange Blinking:** A valid link-local IP Address is established and SMS-1001 is trying to connect with the Pro System Host.
		**Red Blinking:** Embedded firmware is running, but SMS-1001 has not received an IP Address.
		**Rapid Red Blink:** The reset button was pressed and held for five seconds and SMS-1001 is performing a factory reset.
D	Audio	Toslink (Optical) digital audio output port. Connects to a digital audio input on a switcher chassis for streaming Savant Music. An adapter may be required to connect to ports other than Toslink.
E	Ethernet	10/100/1000 Base-T auto negotiating (8-pin RJ-45 female).
F	RS-232	Transmits and receives serial data to and from a serial controllable device. Supports CTS/RTS handshaking. See the RS-232 Control Wiring section below for more information (8-pin RJ-45 female - 2 ports).
G	IR (infrared)	Transmits IR signals via an IR flasher (5V DC tolerant) to devices with an IR input or IR receivers. See the IR Control Wiring section below for more information (6-pin screw down plug-in connector).
H	Relay	Offers both a normally open and normally closed output port to control devices that require basic On/Off operation. Max DC Voltage: 30V DC. See the Relay Control Wiring section below for more information (3-pin screw down plug-in connector).
I	GPIO	Can be configured as either an input or output control port. See the GPIO Control Wiring section below for more information (3-pin screw down plug-in connector).

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5. Installation

The SMS-1001 and SMS-100AM can be mounted to a wall or similar, or can be installed on a solid, flat, level surface such as a table, cabinet, or shelf. The location should be dry, well ventilated, and out of direct sunlight.

5.1. Flat Surface Installation

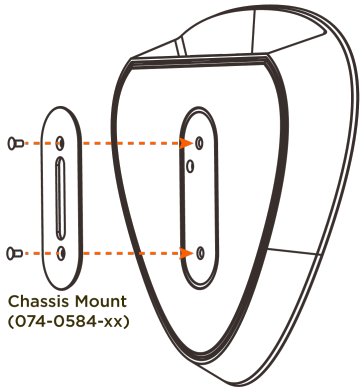
When installing onto a flat surface such as a shelf, the wall bracket should not be installed. This will allow for a flat, level installation.

5.2. Wall Bracket Installation

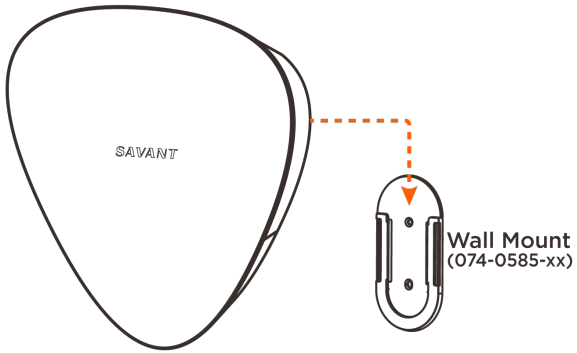
A two-piece wall bracket is included for installation to a wall or similar. Wall mount instructions are provided below.

1. Attach the bracket that mounts to the bottom of the chassis using the included M3 x 6mm flat-head screws.

WARNING! DO NOT overtighten screws.



2. Attach the wall bracket securely to the wall. If mounting to drywall, a sturdy wall anchor such as a threaded drywall anchor should be used.



3. Position the SMS over the wall bracket and gently slide into place. See image above.

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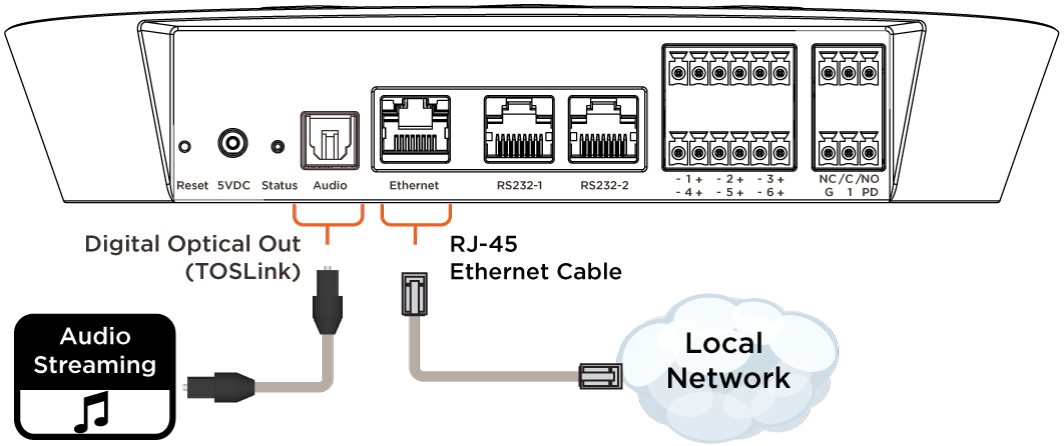
6. Wiring and Connections

6.1. Ethernet and Audio Connections

Refer to images below when making connections. This section applies to the SMS-1001 and the SMS-100AM.



- Connect a Cat 5e/6/7 Ethernet cable between the Ethernet port on the SMS and the local network.
- Connect a Digital Optical (Toslink) cable between the Audio output port on the SMS and an input port on a Savant SmartAudio chassis or amplifier.

  TIP! An adapter or convertor (not included) may be required to connect to non-Toslink type input ports.
- Connect the power cable to the 5V DC port and apply power to the system. The SMS will automatically obtain an IP Address through DHCP.

  TIP! Savant recommends using DHCP reservation. Refer to the owners' manual for the local router for information on setting DHCP reservations for that product.

For more information on using Ethernet, refer to Appendix A: Network Requirements.

6.2. AC Power Connection

This section applies to the SMS-1001 and the SMS-100AM.

Savant recommends a pure sine wave uninterruptible power supply (UPS) when connecting Savant products to AC power. When connecting the SMS, use the following precautions:

- Use a surge-protected circuit for all components and power supplies requiring 100-240V AC 50/60 Hz source power.
- 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.
- Do not plug the SMS directly into the "switched accessory" outlet of another device! These outlets are intended for use with low current draw products such as tuners, CD players, Blu-ray players and other similar devices. These outlets are not designed to handle the high current draw.

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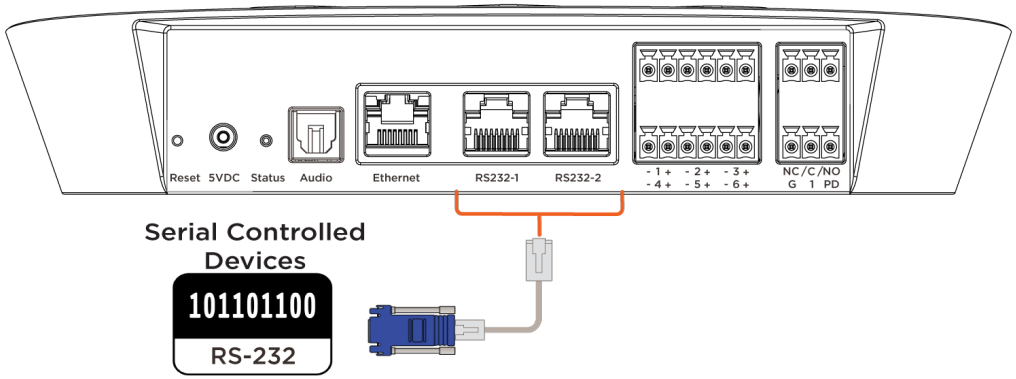
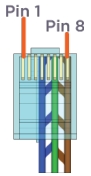
6.3. RS-232 Control Wiring

Two serial ports are provided on the rear of the SMS-1001 to control various devices containing an RS-232 serial control port. The SMS-1001 has two serial ports available for use and are labeled RS232-1 and RS232-2.



RS-232 Pinout



Gold Pins Facing Up

Pin 1: ------

Pin 2: ------

Pin 3: ------

Pin 4: GND (RS-232)

Pin 5: RxD (RS-232)

Pin 6: TxD (RS-232)

Pin 7: CTS (RS-232)

Pin 8: RTS (RS-232)

HEPLFUL INFORMATION! CTS/RTS handshaking is available only on profiles that support this functionality. Refer to the profile for the device to confirm CTS/RTS handshaking support.

Additional Information:

- The SMS-1001 does not support RS-422 or RS-485.
- Ensure all wires required for communication/control are attached in the connector/adapter.
- It is good practice that any wires not required for communication/control are not attached in the connector/adapter.
- It is good practice to cut back any unused wires in the connector/adapter to prevent them from shorting out since they are terminated in the RJ-45 connection on the controller side.
- When making a custom cable, ensure the following:
  - The transmit pin (TxD) on the SMS-1001 side is connected to the receive pin (RxD) on the controlled device side.
  - The receive pin (RxD) on the SMS-1001 side is connected to the transmit pin (TxD) on the controlled device side.
  - The gnd pin on the SMS-1001 side is connected to the gnd pin on the controlled device side.
  - The CTS pin and RTS pin on the SMS-1001 side are connected to their respective CTS and RTS pins on the controlled device side.
- Savant offers many types of RJ-45 to DB-9 adapters. For pinout information on these adapters, refer to the RS-232 Conversion to DB9 and RS-422/485 Pinout Application Note located on the **Savant Customer Community**.

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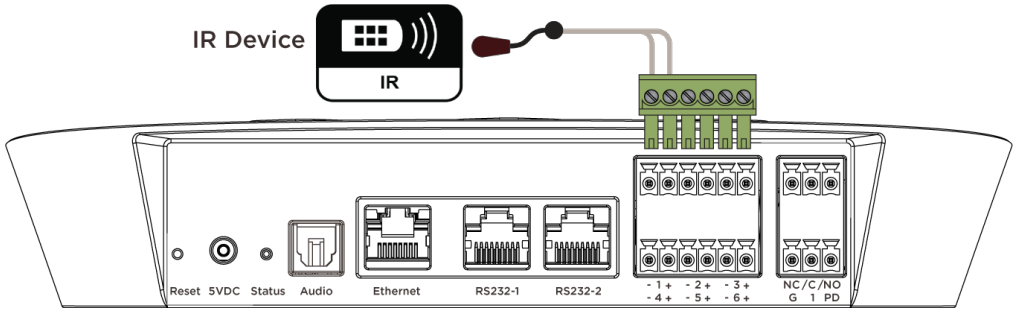
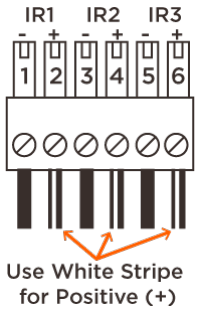
6.4. IR Control Wiring

There are six infrared (IR) control ports available on the rear panel which accommodate up to six IR emitter/flasher diodes. These ports can be used as an output for controlling devices that contain infrared (IR) receivers. The IR control ports are a one-way communication port and can only transmit the IR signaling to an IR controlled device. See information below.



IR Pinout



Pin 1: IR1 -	Pin 7: IR4 -
Pin 2: IR1 +	Pin 8: IR4 +
Pin 3: IR2 -	Pin 9: IR5 -
Pin 4: IR2 +	Pin 10: IR5 +
Pin 5: IR3 -	Pin 11: IR6 -
Pin 6: IR3 +	Pin 12: IR6 +

Additional Information:

- Emitter/Flasher diodes should be within 15 feet (4.6 meters) of the controlled device.
- Use of third party flashing IR emitters with Talk Back is not recommended. These types of emitters/flashers can draw voltage away from the IR signal and degrade performance.

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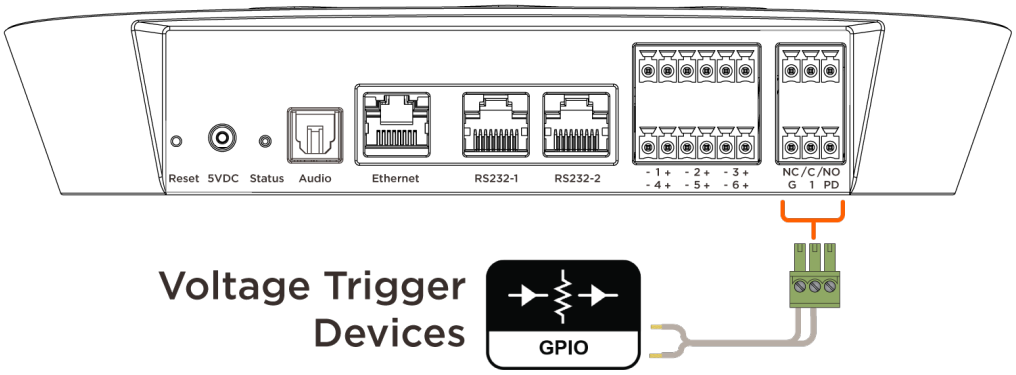
6.5. GPIO Control Wiring

General Purpose I/O ports are available as either an input or an output port.

- When used as an output port the voltage at the GPIO port can be used to trigger an action such as switching a device On.
- When used as an input port the voltage received at the GPIO port can be used to trigger a workflow.

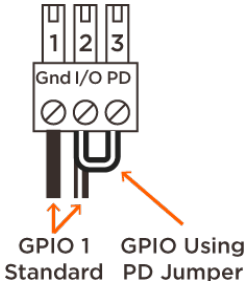


GPIO Pinout

Pin 1: GND

Pin 2: GPIO 1 (Input/Output)

Pin 3: Pulldown



Additional Information:

- **GPIO as an Input** - When the GPIO port is configured as an input, the processor in the SMS-1001 will look for the following:

  - Low - < 0.8V DC (Range = 0 - .8V DC)
  - High - > 2.4V DC (Range = 2.4 – 12V DC)

  Note: Amperage of the connected device will not affect the GPIO input if the incoming voltage doesn't exceed +12V DC.

- **GPIO as an Output** - When the GPIO port is configured as an output, the port will provide a voltage between 0 - 12V DC.
- **GPIO Pull Down (PD) Usage** – During the boot-up process, the GPIO ports are pulled high to +12V DC. However, these ports can also be configured so they are pulled low (<0.8V DC). To do this, connect a wire between the GPIO port and the PD (Pull Down) port. Refer to image above.
- The PD pin is a 1K ohm pull down resistor (to signal ground) which keeps the output of the GPIO port below 0.8V DC during boot-up.
- For additional information and use cases for the GPIO port, refer to the **Application Note: Relay and General Purpose Input/Output Profiles** on the **Savant Customer Community**.

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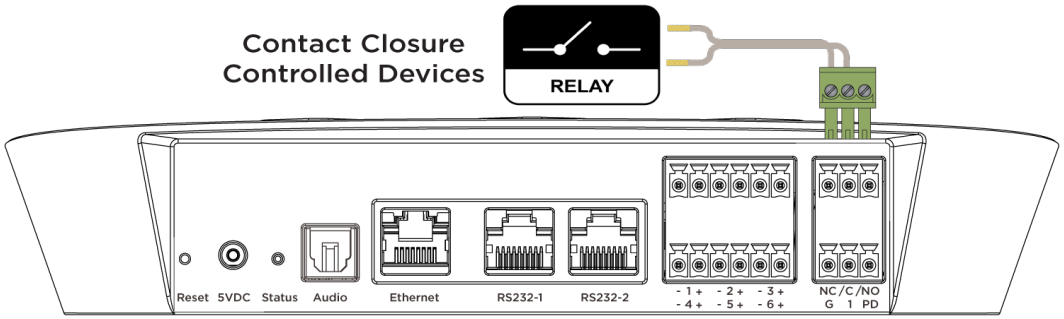
6.6. Relay Control Wiring

One port with a normally open (NO) and a second port with a normally closed (NC) connection are available. This allows for many use cases dependent on the profile selected in Blueprint. Within Blueprint, the relays can be configured to simply switch its state and remain until triggered to switch back, or configured to be momentary where the relay switches state waits .5 seconds and then automatically switches back. Wiring information is shown below.

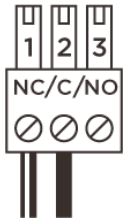


Relay Port Pinout

Pin 1: Normally Closed (NC)

Pin 2: Common

Pin 3: Normally Open (NO)



Additional Information:

- The normally open port is not connected to the common port when the relay is not activated.
- The normally closed port is connected to the common port when the relay is not activated. This will complete a circuit connected to it.
- The profile selected in RacePoint Blueprint automatically sets the relay to its resting or active state.
- For additional information and use cases, refer to the **Application Note: Relay and General Purpose Input/Output Profiles** on the **Savant Customer Community**.

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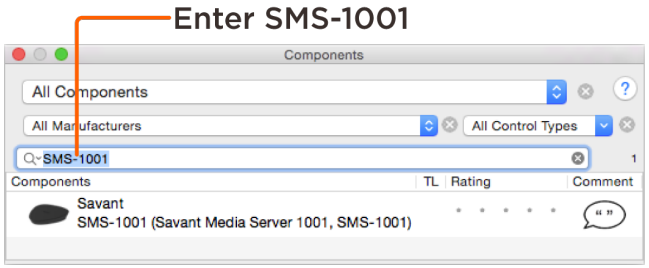
7. Blueprint Configuration

Once the SMS-1001 or SMS-100AM is wired, powered, and assigned an IP Address, it can be added to a RacePoint Blueprint configuration and uploaded to the Savant Pro System Host. The example below shows a SMS-1001, the process is the same for either SMS in this guide. Follow the instructions below.

7.1. Add and Configure SMS-1001 to Blueprint

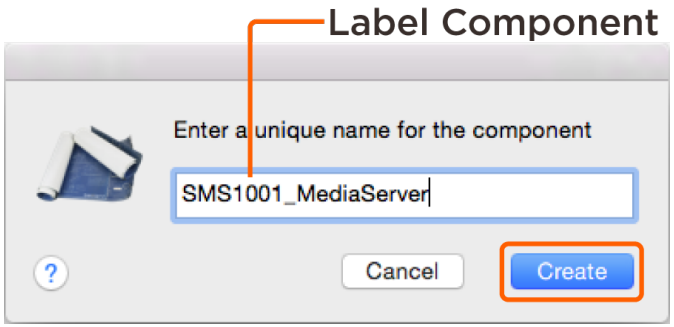
1. Open the Savant Application Manager (SAM).
2. Through SAM, open an existing configuration into Blueprint.
3. Select **Show Library** from the Blueprint toolbar to open the Component Library.
4. Enter **SMS-1001** into the Search bar. Image to right.



5. Drag the SMS-1001 into a Shared Equipment zone in the component list.

TIP! Drag the SMS-1001 into a Shared Equipment zone so it will be available in multiple rooms of the Savant Apps. If the SMS-1001 is dragged into a user zone, it will only be available in that room.

6. Enter a unique name into the pop-up window that opens. Image to right.
7. Select **Create**.
8. Drag the SMS-1001 into the **Layout** window.

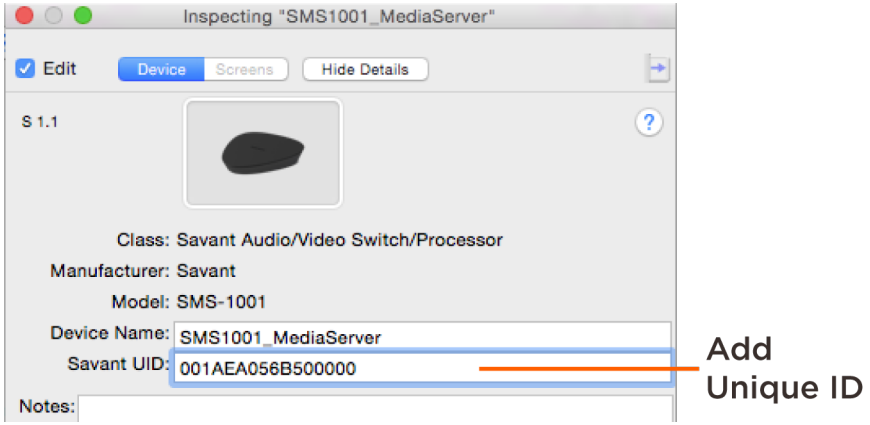


7.2. Add UID to Inspector

1. Double-click the SMS-1001 to open the Inspector.
2. Enter the UID for the SMS-1001. The UID is a sixteen-digit ID which is located on the bottom of the SMS-1001.
3. Close the Inspector window.

HELPFUL INFORMATION! The UID can also be determined using the rpmEmbScanner application accessed through the Savant Application Manager.

From SAM menu bar, select **Launch > rpmEmbScanner**
See Appendix B



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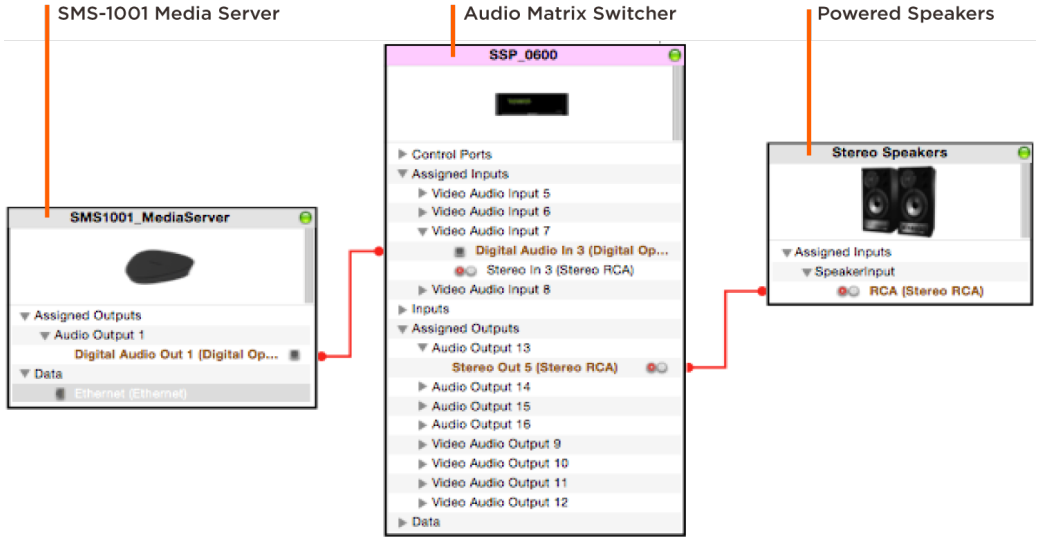
7.3. Make Audio Connections

With the SMS-1001 or SMS-100AM in the layout window, the connections to other devices can be made.

1. Connect the Digital Audio Out (Digital Optical) port from the SMS to a compatible audio input port on a matrix switcher or similar.
2. Verify there is an endpoint such as speakers connected to an output port on the matrix switcher. This will ensure the services are created. See image to right.



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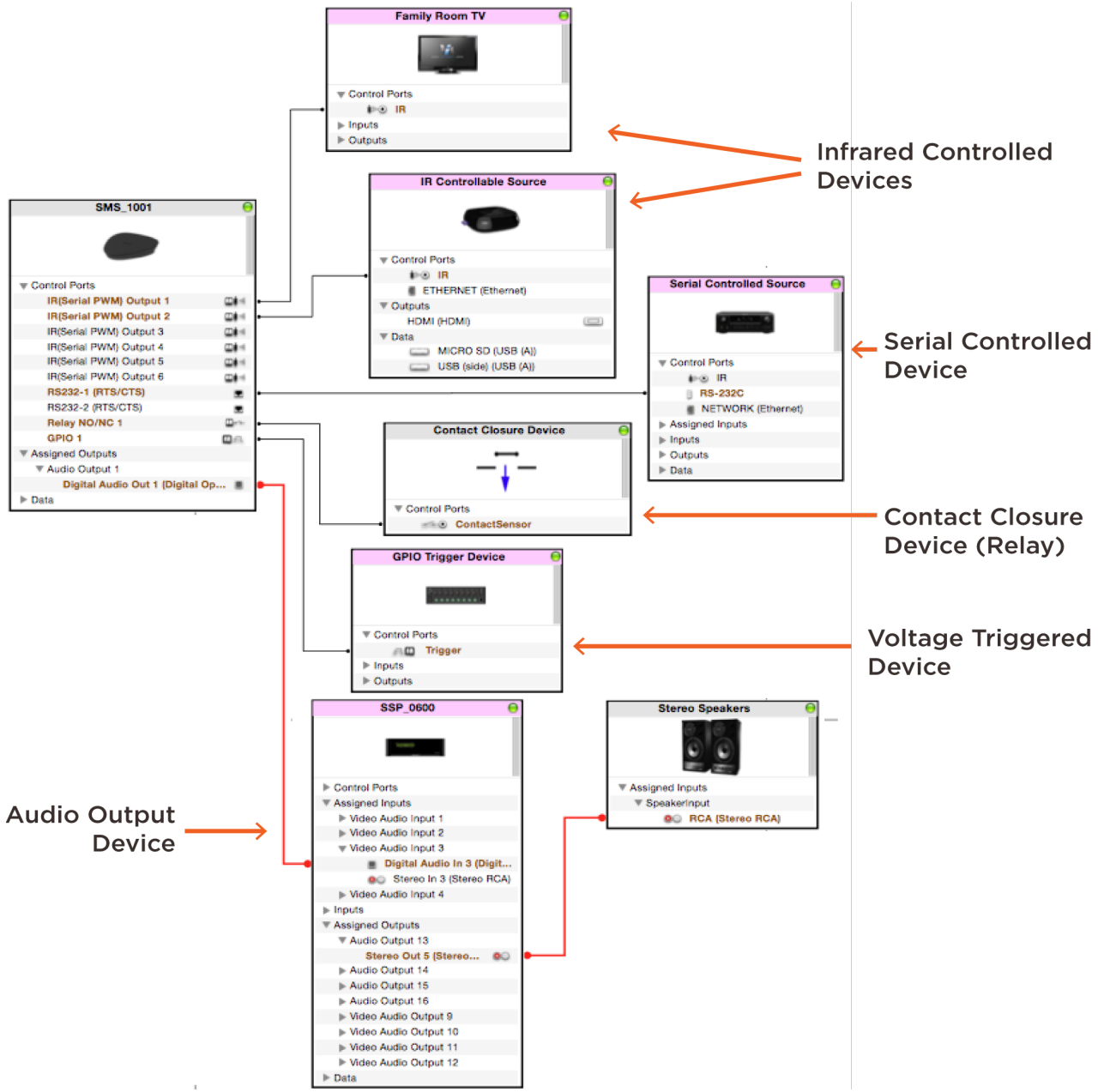
7.4. Make Control Port Connections (optional)

If any of the control ports will be utilized, they will need to be configured in RacePoint Blueprint. Control connections are shown in the diagram below. This is a basic RacePoint Blueprint configuration that can be used for reference.



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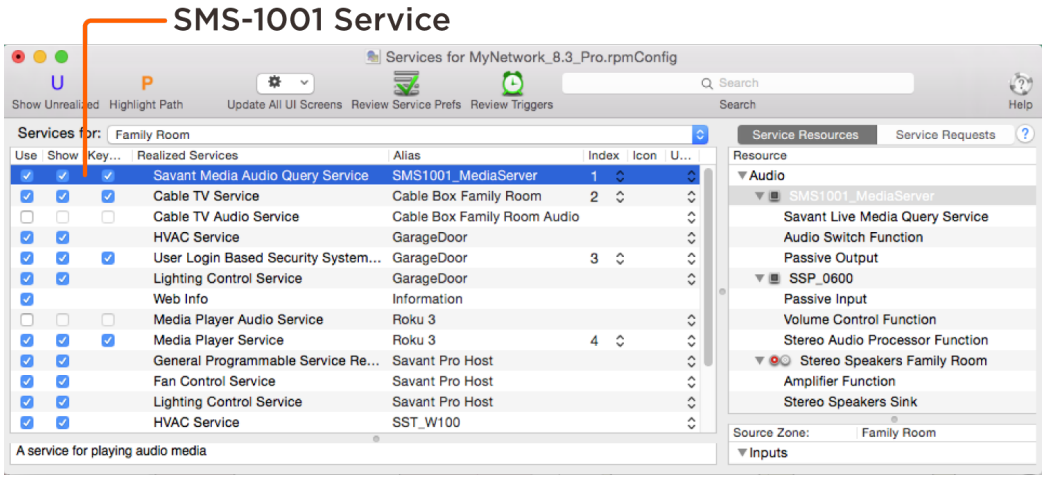
7.5. Generate Services / Verify Services got Created

After configuration is complete, the services need to be generated.

1. Select **Generate Services** from the Blueprint toolbar.
2. Verify the SMS service is created in each of the rooms the service will be played in.



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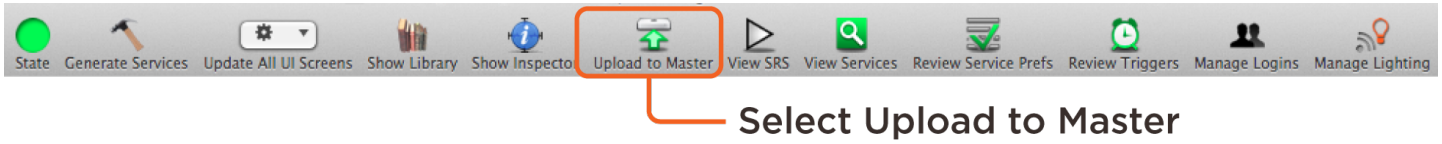
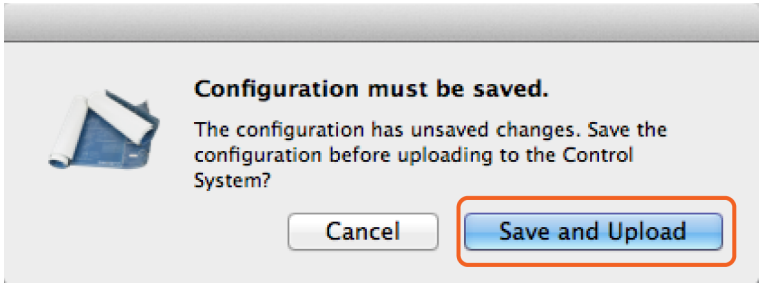
8. Upload Configuration

When configuration is complete, and the services generated, the configuration can be uploaded to the Host. Follow instructions below to upload.

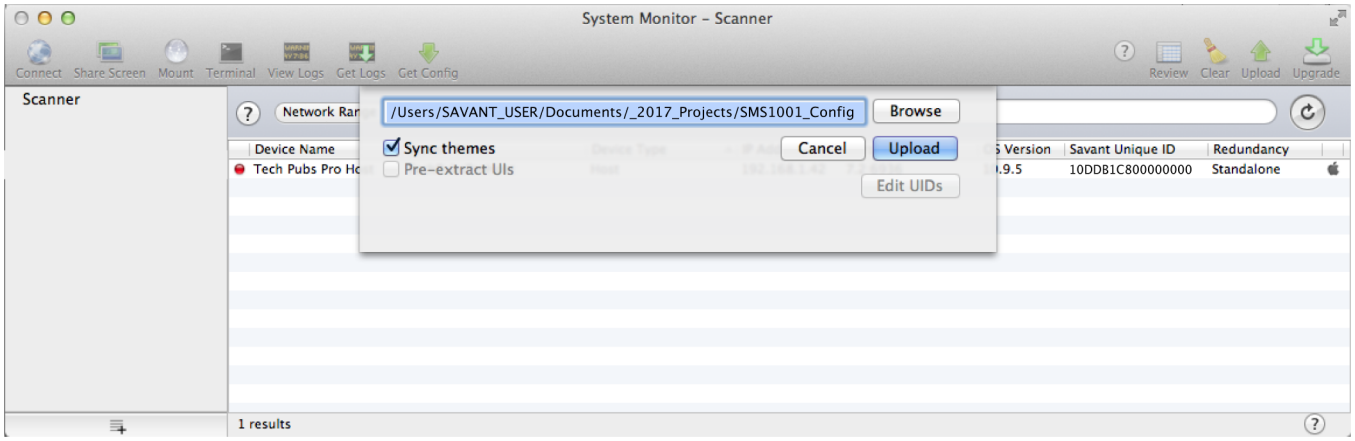
1. Select **Update All UI Screens > Sync with Services** (only if necessary) from the Blueprint toolbar to sync the user interfaces such as the iPad® to the services. The **State** icon will change to green when complete.
2. To upload, select the **Upload to Master** icon from the Blueprint toolbar and send the configuration to the Host.



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



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



5. The configuration will upload to the Host. Once upload is complete, the Savant Pro or TrueControl II application can be opened.

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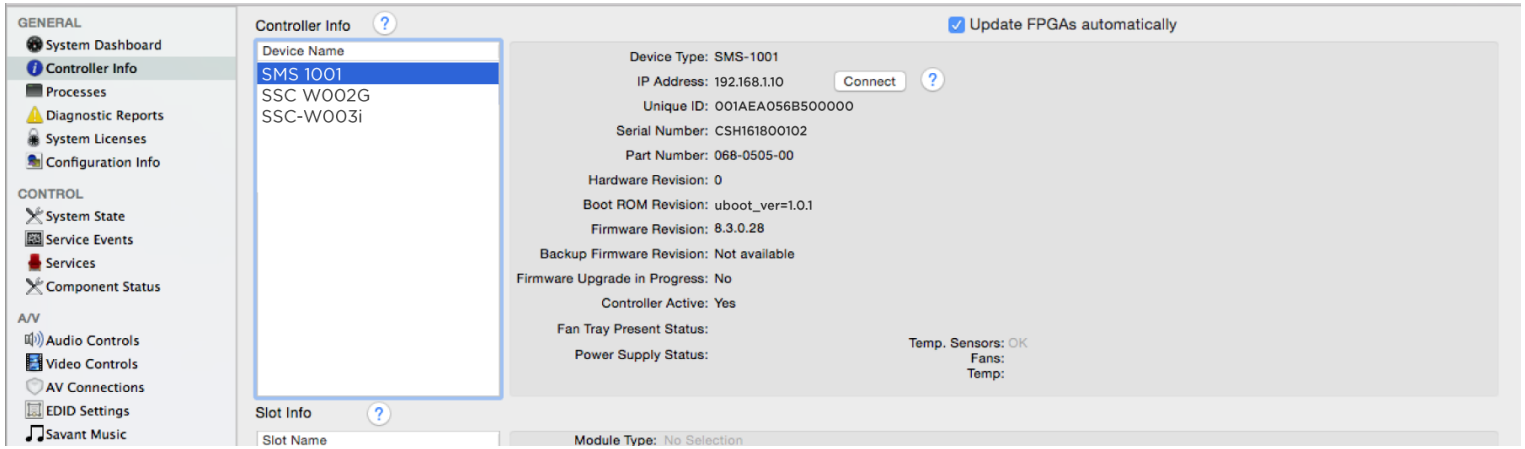
9. System Monitor

Information about the SMS-1001 or SMS-100AM is available through the Controller tab in the System Monitor application. The information available can be used by the Savant Support Team when troubleshooting possible issues. Refer to information below.

9.1. Controller Tab



Device Type	Model number of the SMS.
IP Address	IP Address assigned to the SMS.
Unique ID	The Unique ID of the SMS. The UID is located on a label on the bottom of the SMS.
Serial Number	Serial Number of the SMS.
Part Number	Part number of the SMS. The Savant Support Team may require this number during troubleshooting.
Hardware Revision	Revision of the main board installed in the SMS.
Boot ROM Revision	Revision of the Boot ROM currently running on the SMS. Savant Support Team may require this information.
Firmware Revision	Revision of Firmware currently running on the SMS hardware. Savant Support Team may require this information.
Backup Firmware Revision	Not Applicable on the SMS.
Firmware Upgrade in Progress	Displays **Yes** or **No** to whether a firmware upgrade is in progress.
Controller Active	**Yes** – SMS is configured and running. **No** - The SMS cannot communicate with the Pro System Host. Possible issues could be wrong UID or a mis-wired connection.

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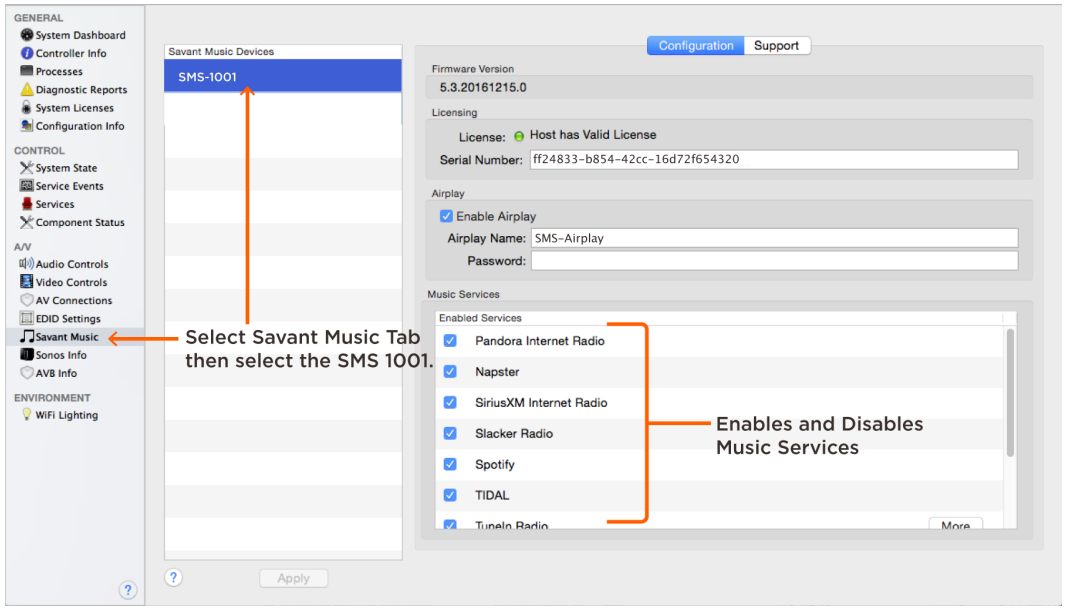
9.2. Savant Music Tab

The SMS-1001 and SMS-100AM has a built-in single stream music player. This allows the use of popular music streaming services like Pandora, Spotify, and several other streaming services.

Although the streaming services are managed in the Savant Pro 8 and TrueControl II Apps, the services available can be enabled and disabled from the Savant Music tab of System Monitor. See information below.



Firmware Version	Revision of Savant Music firmware running on the SMS-1001.
Licensing	Information about the license loaded on the SMS-1001 is displayed. Savant Support team may require this information during troubleshooting procedures.
Airplay	Allows user to Enable/Disable Airplay, as well as configure and editing the Airplay Name/Password broadcasted by the SMS-1001.
Music Services	The available music services can be enabled or disabled by checking or unchecking each service: **Checked** – Enabled **Unchecked** – Disabled If a music service is disabled (unchecked) and then re-enabled (checked), the user account for that music service is cleared. To clear an account, do the following: 1. Select music service checkbox to disable the service. 2. Wait 30 seconds and then select to enable that music service again. Thirty seconds after re-enabling the music service, the account for that music service will no longer be available. **TIP!** If not creating a new user account to replace the user account being cleared, it is good practice to delete the playlists and favorites prior to clearing the account.

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Additional Information

Refer to the following documents located on the **Savant Customer Community** for additional information.

- SMS-1001 Savant Music Server 1 Quick Reference Guide (009-1469-xx)
- SMS-100AM Savant Music Single Stream Quick Reference Guide (009-1581-xx)
- Savant Media Server/Savant Music Supported Streaming Services Application Note
- Relay and General Purpose Input/Output Profiles Application Note
- The following videos from the pages of the Savant University may be helpful: (**Savant Customer Community > Savant University**)
  - Pro 8 App Short – Creating Favorites and Playlists in Savant Music
  - Pro 8 App Short – Logging into Streaming Music Services
  - Pro 8 App Short – Navigating Savant Music

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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.

Device Network Connections

Connect all Savant devices to the same local area network (LAN) or subnet as the Host. Savant recommends not implementing any type of traffic or packet shaping in your network topology for the 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, static IP Addresses for all devices can be managed from a single UI avoiding the need to access devices individually. Setting DHCP reservation varies from router to router. Refer to the documentation for the router to configure DHCP reservation.

Network Changes

Savant recommends performing one of the following steps to refresh the IP connection after connecting to a new network, changing routers, or if the IP Address range is changed in the current router. This will reset any IP connection and ensure that the Host is communicating with the network correctly.

To refresh the IP connection, perform one of the following steps:

- Cycle Power
  1. Disconnect the SMS from the AC power source.
  2. Wait 15 seconds and then reconnect.
- Hot Plug the Ethernet (LAN) Connection
  1. Disconnect the Ethernet (LAN) connection from the SMS.
  2. Wait 15 seconds and then reconnect.
- Restore System Defaults

  To restore system IP default settings, press and hold the reset button for 5 seconds till the Status LED starts a rapid red blinking sequence; then release. System will reset and Ethernet settings will be cleared.

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Appendix B: Retrieve or Set IP Address

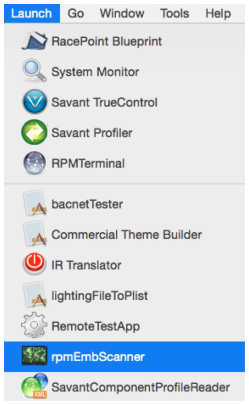
Savant recommends assigning the IP Address for the SMS using DHCP reservation or similar. However, a static IP Address can also be configured.

To retrieve an already assigned IP Address or set a static IP Address, the rpmEmbScanner application opened through the Savant Application Manager (SAM) can be used.

To set the IP Address when the rpmEmbScanner is not available, an embedded Web UI is available. Both are described below

Using rpmEmbScanner

1. Open the Savant Application Manager (SAM).
2. Activate da Vinci 8.3 or higher.
3. Select **Launch > rpmEmbScanner** from SAM menu bar.

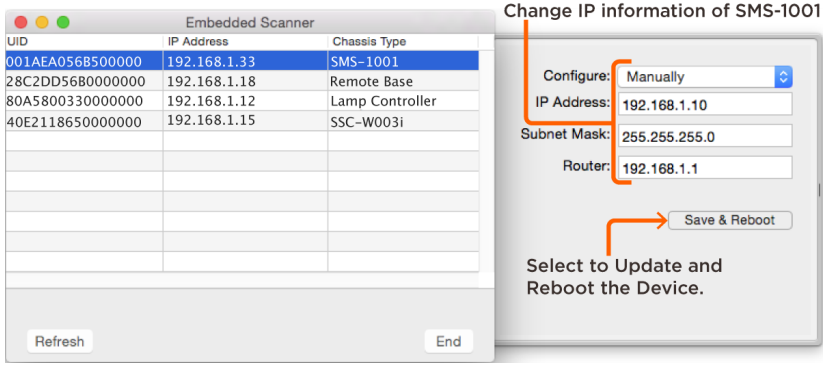


HELPFUL INFORMATION! It is good practice to copy the UID from the bottom of the SMS-1001. The UID copied can be compared with the UID in the rpmEmbScanner to verify the correct product.

4. Select the SMS from the list of devices.
5. Select the **Edit** button to open an editing window.
6. Select **Manually** from the Configure: field.
7. Enter new **IP Address** into the IP Address: field.

Note: The Subnet Mask and Router fields will automatically populate but can be modified as required.

8. Select **Save & Reboot**.
9. After reboot, the device will repopulate in the rpmEmbScanner window.



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Appendix C: DNS Server (Add, Remove, Query)

Follow the instructions below to, add, remove, or query the DNS servers configured on the SMS.

Determine IP Address

1. Launch the Savant Application Monitor (SAM).
2. Open System Monitor from within SAM by selecting the System Monitor icon from the right-side menu.
3. From the System Monitor scanner window, double-click the Host from the Savant Pro System that contains the SMS.
4. In the window that opens, select the **Controller Info** tab and then select the SMS from the list of devices under the **Device Name** field.
5. With the SMS highlighted, record the IP Address.

Log in to SMS

6. Open a terminal window on your MacBook/SDE.
7. Enter the ssh command displayed below to login using RPM as the admin user (The default admin user is RPM).

   ```
   savant.user$ ssh RPM@<IP Address>
   ```

8. Enter the password when prompted. See prompt below.

   `RPM@<IP Address>'s password:` (Default password is **RPM**).

HELPFUL INFORMATION! The default user/password is RPM/RPM. If these credentials have been changed, use the updated credentials in the log in commands.

DNS Server Commands

9. Once logged in, the commands below will add, remove, or query the DNS server(s) configured:

To add a DNS server:	`RPM@SavantUser-SMS-1001:$ setDNSServer -add –address x.x.x.x <enter>`
To remove a DNS server:	`RPM@SavantUser-SMS-1001:$ setDNSServer –remove –address x.x.x.x <enter>`
To query the DNS servers configured:	`RPM@SavantUser-SMS-1001:$ setDNSServer <enter>` Terminal window will respond with the list of DNS servers as displayed below: nameserver 192.168.1.4 nameserver 192.168.1.10 nameserver 192.168.4.7

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