



Savant® Intercom Service and Paging Interface Deployment Guide

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Document Supports	da Vinci 10.3 and higher



This document outlines the process for deploying Savant Intercom Service and the Paging Interface including physical installation and RacePoint Blueprint™ configuration.

Supported Savant Devices

- Savant Intercom Paging Interface (SIPI-1000-xx)
- Savant Touch 5.5 Inch Control Screen (ITP-E5500x-20 or newer)
- Savant Touch 8 Inch Control Screen (ITP-E8000x-20 or newer)
- Savant App for iOS and Android (iPad not supported)



Active Essentials subscription required for this feature.

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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.
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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 Beginning

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

- Savant Host; licensed and running da Vinci 10.3 or higher ☐
- Savant Development Environment (SDE/MacBook) ☐
- One or More supported User Interface(UI) Devices (Recommended) ☐

Supported User Interface Devices

Device	Requirement
Savant Touch 5.5 Inch Control Screen	ITP-E5500x-20 or newer
Savant Touch 8 Inch Control Screen	ITP-E8000x-20 or newer
Savant App for iOS*	Savant App 10.3 or higher
Savant App for Android*	Savant App 10.3 or higher

*NOTE: iPad and Android tablets are not supported.

2. Deployment Steps

Follow the steps below to deploy the Savant Intercom. This page can be used as a checklist to record which steps have been completed.

- Review product specifications and connection details ☐
- Install Savant Paging Interface (Optional)..... ☐
- Activate Intercom Service in Blueprint ☐

3. Intercom Paging Interface Setup (Optional)

3.1. Wiring and Connections

The Savant Intercom Paging Interface audio connection uses a screw-down connector. For convenience, an RCA cable is included in the package for easy installation.

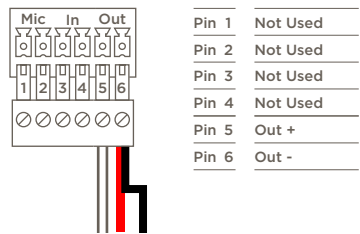
Network Connection

The Savant Intercom Paging Interface uses a standard RJ-45 port complying with IEEE 802.3 Ethernet standards. This port also supports Power over Ethernet (PoE - IEEE 802.3af)

Audio Connection

The Savant Intercom Paging Interface has a single analog audio output.

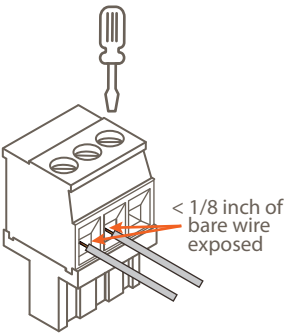
Audio connection is made using a 6-pin Screw-down Connector supplied with the device to the Audio Out (+/-) terminals. The wire slips into the hole and locks with a screw located at the top of the connector.



Screw-down Connections

When making connections, follow the guidelines set below to ensure a safe and secure connection.

1. With a small slotted screwdriver, turn the screws on the connector counterclockwise (CCW) until the silver crimps open enough to slide a wire into the square slots.
2. Strip back insulation on each wire to 1/4 inch and insert the stripped wire into the proper connection.
3. Turn the screw clockwise (CW) until the crimps tighten around each wire. Gently tug on each wire to verify they are secure.



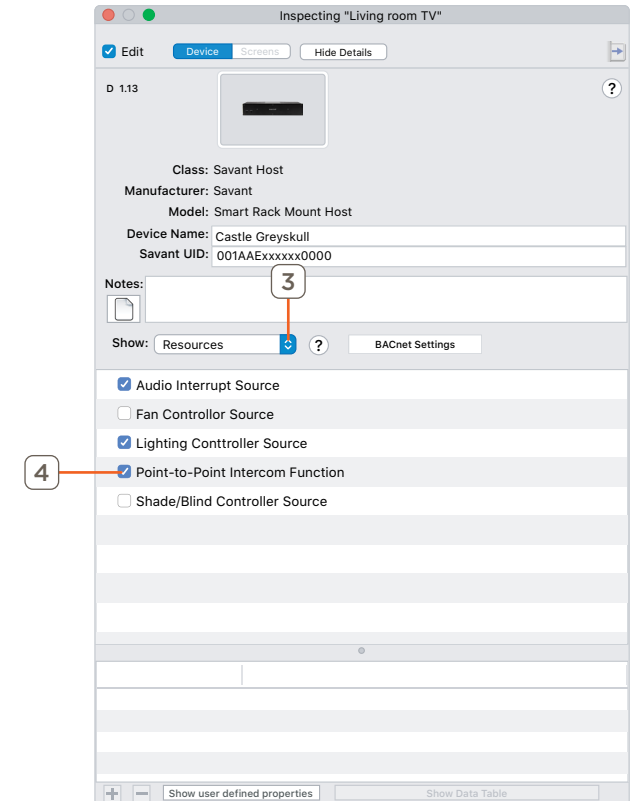
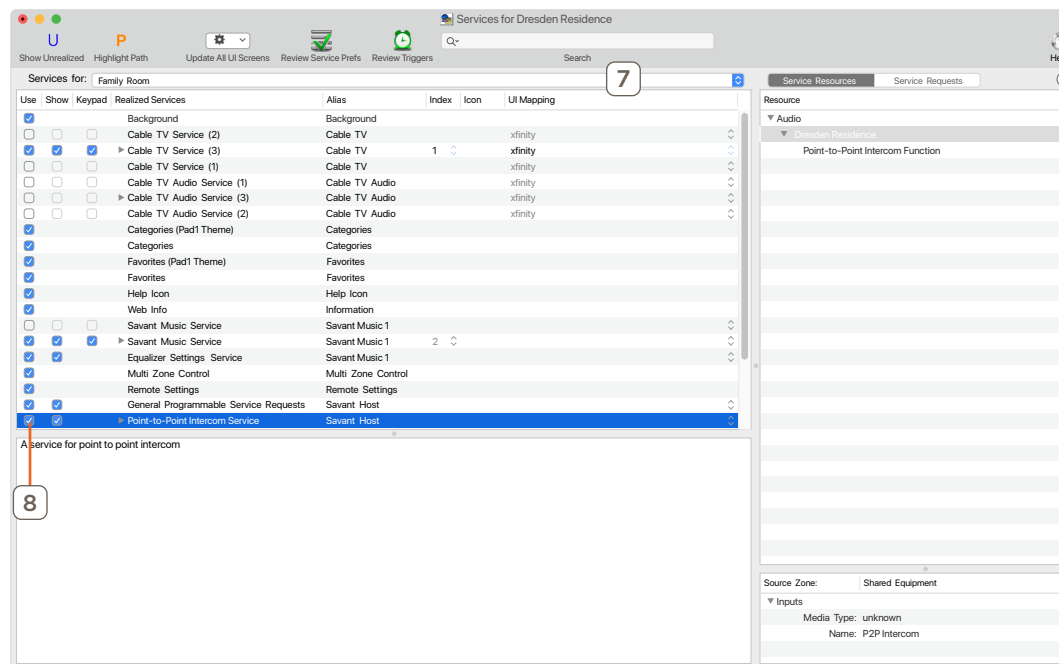
4. Blueprint

This section describes the process of deploying the Intercom service within a Savant system.

4.1. Point-to-Point Intercom Service

The Intercom service does not require any hardware other than a Savant Host. Savant recommends that the steps to enable this service are done after all components have been placed and connected in the Layout window. To enable the Intercom service do the following:

1. Select the Host.
2. Open Inspector. (**Command + i**)
3. In the Show drop down select **Resources**.
4. Enable **Point-to-Point Intercom Function**.
5. Generate Services.
6. Open the View Services window.
7. Select a zone where the Intercom will be used.
8. Enable **Point-to-Point Intercom Service**.
9. Repeat steps 7 and 8 for each zone where the service is required.



4.2. Confirm Savant Essentials Subscription

Confirm there is an active Savant Essentials Subscription on the host.

1. Open System Monitor via Savant Application Manager and select the host.
2. Select System Licenses.
3. Verify there is an active license on the host.
4. Alternatively, access Savant Central Management to view the home, and select **Subscriptions**.
5. Reference the [Savant Host Runtime Licensing Reference Guide](#) for more information on obtaining a Savant Essentials Subscription.

4.3. Intercom Paging Interface (Optional)

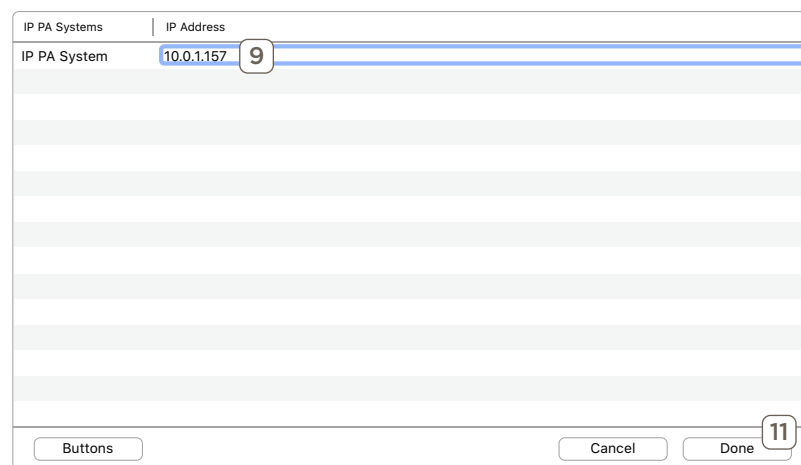
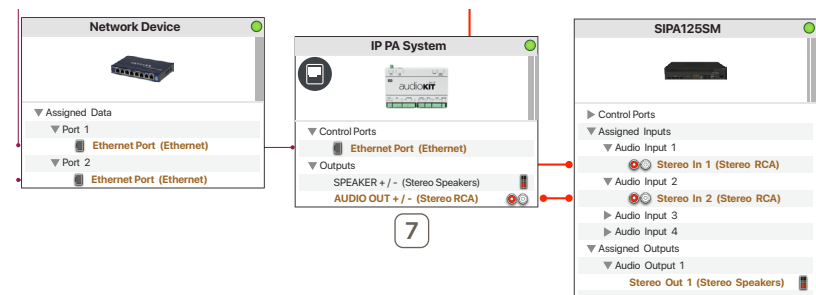
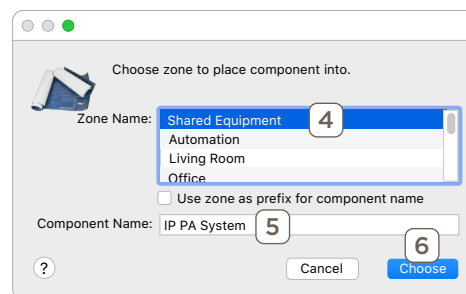
To add a Savant Paging Interface to a Blueprint configuration, follow the steps below.

1. Open the Profile Library by clicking Show Library.
2. Search for “SIPI-1000”.
3. Click and drag the SIPI-1000 into the Layout window.
4. From the Choose zone prompt window, select a **Shared Equipment Zone** type to place the SIPI-1000 into.
5. Enter a name for the Device.
6. Click **Choose**.
7. Make the Data and Audio connections.

Draw a connection between the RCA output of the SIPI-1000 and the Savant Audio chassis that the device is physically connected to in the deployment.

Draw a connection between the Ethernet connection on the SIPI-1000 and a generic network control switch profile in the Blueprint configuration.

8. Open the Intercom Data Table.
Navigate to **Tools > Settings > Intercom....**
9. Enter the IP address of the Paging Interface.
10. If desired click Buttons to add custom buttons to the Paging screen in the Savant app.
For more information on this topic see the **Savant App Customized Screens** article on the [Savant Customer Community](#).
11. Click **Done**.
12. In the top of the layout view, click Generate Services.
An Audio Interrupt Service (AIS) for the Paging service has been created.
For more information on this topic see the **Audio Interrupt Service (AIS) Programming Guide** article on the [Savant Customer Community](#).



5. WebUI Configuration

This section describes how to configure a Paging Interface (2N Audio Kit) to be integrated into a Savant system.

5.1. Connect/Login

To connect to webUI, do the following:

1. Find **IP Address** of the Paging Interface.
2. Open a web browser and enter the IP address into the address bar.
3. Enter username and password for the door station.

Default Username:	admin
Default Password:	2n

NOTE: Once default login credentials have been entered, an immediate password change is required.

5.2. Firmware Update

In a web browser, log into the device to be configured:

1. Select **System**.
2. Select **Maintenance**.
3. If there is a firmware update needed for the device, the device's firmware status will report **New Version Available**.
4. If there is a firmware update needed per the results of step 3, tap the **Upgrade Now** button.
5. Tap the **Proceed** button in the pop-up dialogue that is displayed.
6. Once the device has rebooted, log back into the device with the newly set password and continue to the next section in this document.

The image shows the Savant device web interface. The top section is divided into 'Device Status' and 'Device Configuration'. The 'Device Status' section includes a 'Status' tile with details like Serial Number (54-1000-0000), Firmware (2.21.3.30.6), and SIP numbers. The 'Device Configuration' section includes tiles for Directory, Services, Hardware, Audio, System, Maintenance, and My2N. The 'System' tile is highlighted with a red box and a red line pointing to the 'System' dropdown menu in the 'Configuration' section. The 'System' dropdown menu is open, showing options like Network, Date & Time, Licence, Certificates, Auto Provisioning, Syslog, and Maintenance. The 'Maintenance' option is selected, and the 'Upgrade Device Firmware' section is visible. The 'Upgrade Device Firmware' section shows the current Firmware Version (2.21.3.30.6) and the Firmware Status (New version available). The 'Upgrade Now' button is highlighted with a red box and a red line pointing to it. The 'Upgrade Now' button is labeled with a red '4'.

Device Status

Status

SERIAL NUMBER 54-1000-0000
FIRMWARE 2.21.3.30.6
UP TIME 0d 0h 35m 46s

SIP 1 NUMBER NOT REGISTERED 111
SIP 2 NUMBER NOT REGISTERED 0

New firmware version available!

Device Configuration

Directory
1 USER(S)

Services
PHONE | E-MAIL
RTSP

Hardware

Audio

System
DHCP | TLS | MD5

Maintenance

My2N

Configuration

Upload Configuration File to Device **Restore Configuration**

Download Configuration File from Device **Backup Configuration**

Reset Configuration to Default State **Reset Configuration**

System

Firmware Version 2.21.3.30.6
Bootloader Version 2.16.1.25.5
Software Build Type Release
Software Build Date and Time 12/15/2017 12:21:36

Upgrade Device Firmware **Upgrade Firmware**

Firmware Status New version available

Upgrade Now

Restart Device **Restart Device**

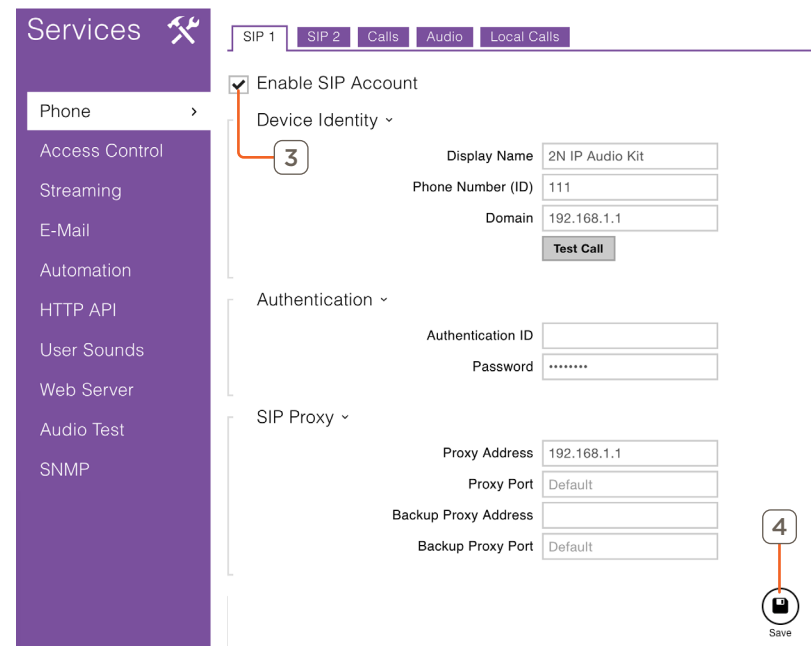
Licenses **Show**

5.3. Services

Services must be configured for proper integration of the Paging Interface. While logged into the device, do the following:

1. Select **Services**.
2. Select **Phone > SIP 1**.
3. Check **Enable SIP Account**.
4. Click **Save**.
5. Select **Phone > SIP 2**.
6. Check **Enable SIP Account**.
7. Click **Save**.
8. Select **Phone > Calls**.

2N® IP Audio Kit



9. Change Call Time Limit to **120** or define the preferred max call limit for this deployment.
This is the total time allowed for an active paging session.
10. Change Call Answering Mode (SIP 1) to **Automatic**.
11. Change Call Answering Mode (SIP 2) to **Automatic**.
12. Change Local Call Receiving Mode to **Automatic**.
13. Change Pick Up In to 1.
This is a delay in seconds. If set to zero no ring sound will play before the page starts.
14. Click Save.

Services

Phone >

- Access Control
- Streaming
- E-Mail
- Automation
- HTTP API
- User Sounds
- Web Server
- Audio Test
- SNMP

SIP 1
SIP 2
Calls
Audio
Local Calls

General Settings ▾

Call Time Limit [s] 9

Incoming Calls ▾

Call Answering Mode (SIP1) 10

Call Answering Mode (SIP2) 11

Local Call Receiving Mode 12

Pick Up in [s] 13

Answer Incoming Call by Button

Outgoing Calls ▾

Connecting Time Limit [s]

Ring Time Limit [s]

Dial Cycles Limit

Calling Virtual Numbers ☐

Telephone Mode Enabled ☐

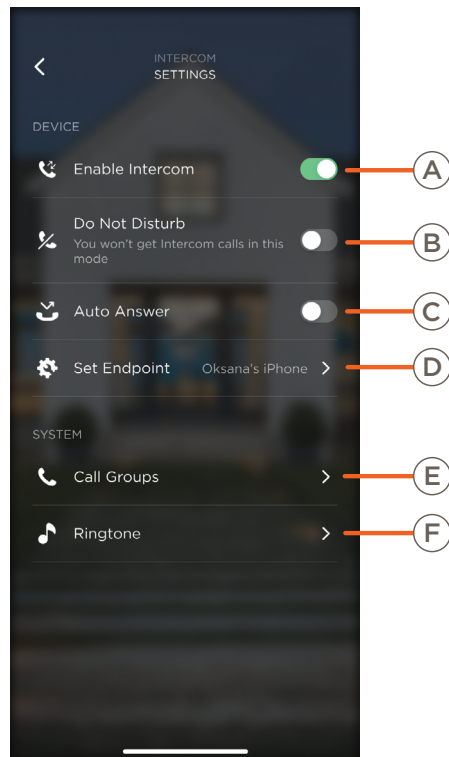
Maximum Number of Dialed Digits

Button Function During Outgoing Call 14

Save

Appendix A: Intercom Settings

Select the intercom icon from the Savant App Homescreen to access the Intercom Settings.



(A) Toggle to enable or disable intercom for this device.

(B) Toggle on to prevent calls being made to the device.
NOTE: The device will still be able to call out.

(C) Toggle on to automatically answer any calls placed to the device.

Tap to set the device as an endpoint for a room, Cloud user, or customized name.

Set As This Device: Select to name device for easy identification. Name set appears on all other intercom interfaces.

(D) **Set As User:** Select this option to set the device to receive incoming calls as the logged in Savant Cloud user.

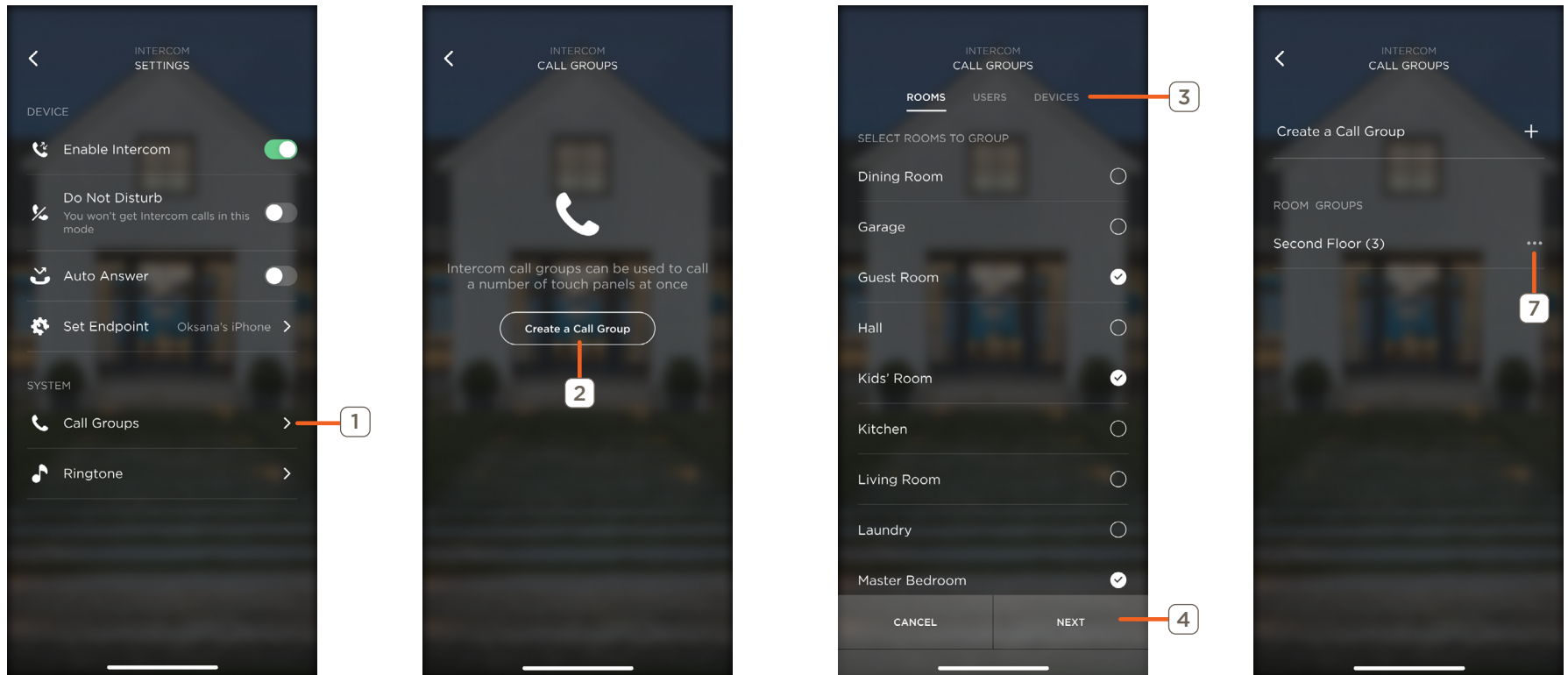
Set As Room: Select this option for common spaces then select the Room the touch panel will be identified as.

NOTE: When the Room is called, all devices set in the Room will ring.

(E) Select to set up multiple intercom devices to be called at once with one press. See [Appendix: B](#) for more information.

(F) Select to set a ringtone that will play when a device is called.

Appendix B: Create Custom Call Groups



1. Select **Call Groups** from the Intercom Settings screen in the Savant App or Touch Panel.
2. Select **Create a Call Group**.
3. Check the **Rooms**, **Users**, and/or **Devices** to be added to the Call Group.
4. Click **Next**.
5. Name the Call Group.
6. Select **Done**. This will save the newly created Call Group for devices to call.
7. Select the ellipses next to the name of the Call Group to Edit or Delete.

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