

# SAVANT

## Entry Service using 2N Door Stations

DOR-SMS-00 | DOR-FMS-00 | DOR-SMB-00 | DOR-FMB-00

DOR-SMOS-00 | DOR-FMOS-00 | DOR-SMOB-00 | DOR-FMOB-00

DOR-HDSMKB-00

## Deployment Guide

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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

<b>NOTE:</b>	Provides special information for installing, configuring, and operating the equipment.
 <b>IMPORTANT!</b>	Provides special information that is critical to installing, configuring, and operating the equipment.
 <b>CAUTION!</b>	Provides special information for avoiding situations that may cause damage to equipment.
 <b>WARNING!</b>	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

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


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 (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of any 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 any provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect any power cord from being walked on or pinched; particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer, following all relevant safety precautions for any such attachments/accessories.
12. Disconnect any outlet powered apparatus from its power source during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as a damaged power supply cord or plug, liquid being spilled or objects having fallen into the apparatus, the apparatus being exposed to rain or moisture, apparatus having been dropped, or other failure to operate normally.
14. To completely disconnect equipment from AC mains power, disconnect the power supply cord plug from the AC receptacle.
15. For applicable equipment, use the included power cord with the grounding prong intact to insure proper grounding of the device.
16. 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. Introduction

This Deployment Guide will guide the installer through the process of installing, configuring, and adding a 2N Door Station to a RacePoint Blueprint® configuration.

## Before You Begin

Read through this document in its entirety and ensure that the following required items are available:

 **IMPORTANT!** If the Door Station has been installed and configured using the 2N App. The Door Station must be completely removed from all my2n.com accounts in order for remote calling to work.

- 1. 2N Door Station .....
- 2. da Vinci 8.9 or higher.....
- 3. Door Station serial number.....
- 4. Savant Development Environment (SDE/MacBook).....
- 5. Ethernet network meeting Savant requirements .....   
Power over Ethernet (PoE)

# 2. Deployment Steps

Follow these steps to successfully deploy a 2N Door Station. This page can be used as a checklist to record which steps have been completed.

- 1. Review product specifications and connection details .....
- 2. Install Door Station .....
- 3. Configure Door Station .....
- 4. Add the Door Station to RacePoint Blueprint.....

### 3. Equipment Overview

This section gives a basic overview of the 2N Door Stations that Savant sells. For detailed information on the individual products see the Documentation tab on the Integrator store on Savant.com.

#### 3.1. Box Contents and Specifications

Documentation is available on the [Savant Customer Community](#), See the [2N Door Station Integration with Savant Application Note](#).

#### 3.2. Installation

Follow the installation manual included with the product.

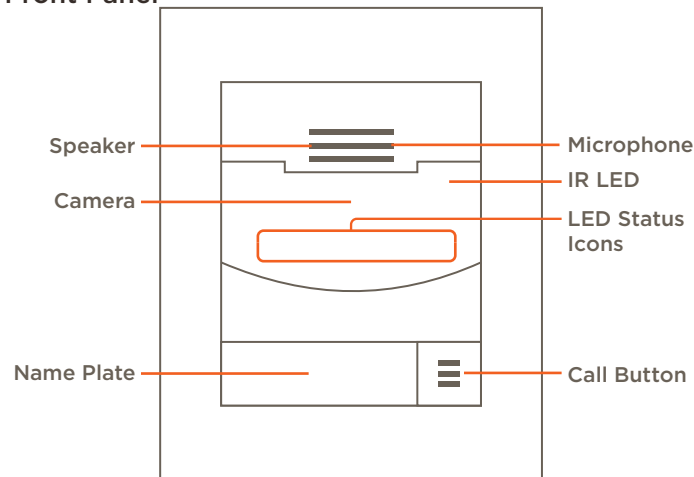
Download links for the installation documentation





- [Verso Installation Manual](#)
- [Solo Installation Manual](#)
- [Force Installation Manual](#)

These documents can also be found on the [Savant Customer Community](#), see the [2N Door Station Integration with Savant Application Note](#).

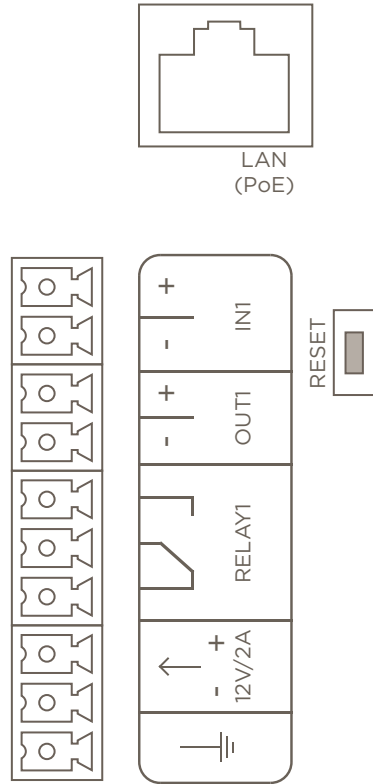
#### 3.3. Door Station Single Height (2N IP Solo)

##### Front Panel



Speaker	Audio Output.
Microphone	Audio Input.
IR LED	Infrared LED for the night vision camera.
Camera	Wide-angle IP camera used to view who/what is at the entry.
	 Door Open: Attached door lock is been opened.
	 Locked: Zone is locked.
LED Status Icons	 Active Call: An active call is in progress.
	 Ringing: Displays when I call is being made to the Door Station.
Name Plate	Removable clear plate to place Name/Address information behind with White Back-light.
Call Button	To start a call from the intercom

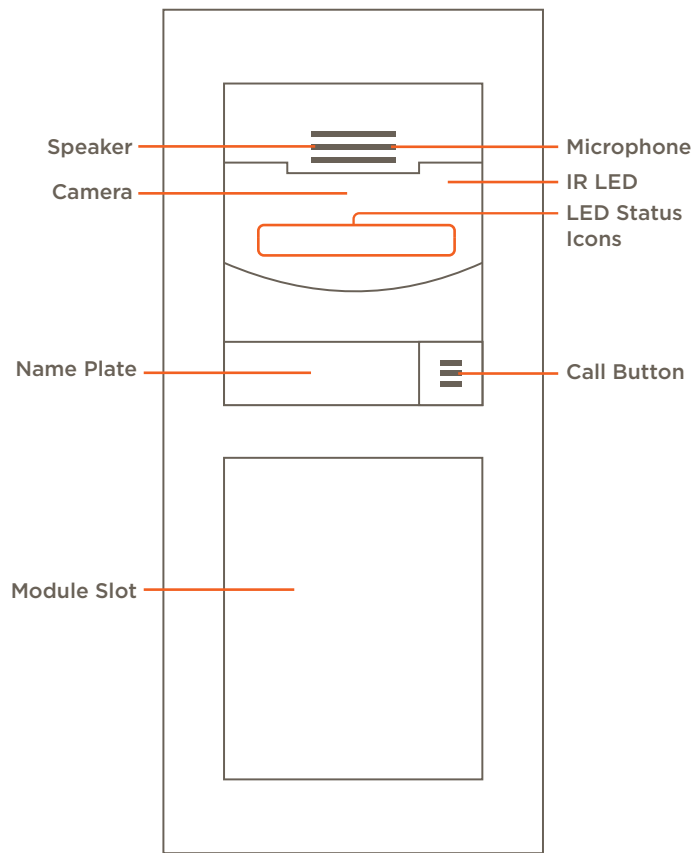
## Internal Wiring







Ground	Grounding terminal
12V/2A	External 12V 2A connection.
Relay1	Normally Closed/Normally Open 30V 1A AC/DC max
Out1	Active Output 8 to 12V DC max 400mA (PoE: 10V; adapter: power supply voltage minus 2V)
In1	Sense input -30V to +30V DC OFF: open OR $U_{IN} > 1.5V$ ON: closed OR $U_{IN} < 1.5V$
Reset	Reset/Factory Reset button Press button for <1s to reboot the unit
LAN (PoE)	RJ-45 female connector (optional PoE 802.3af)

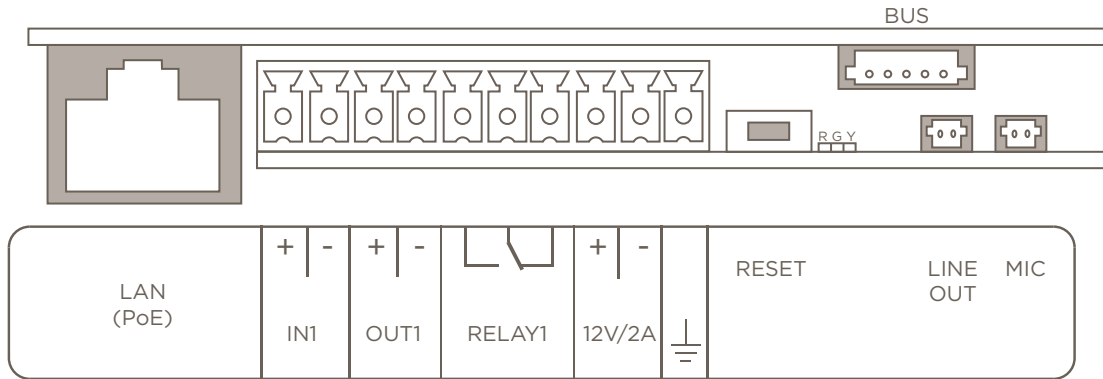
### 3.4. Door Station (2N IP Verso)

#### Front Panel



Speaker	Audio Output.
Microphone	Audio Input.
IR LED	Infrared LED for the night vision camera.
Camera	Wide angle IP camera used to view who/what is at the entry.
LED Status Icons	 Door Open: Attached door lock is been opened.
	 Locked: Zone is locked.
	 Active Call: An active call is in progress.
	 Ringing: Displays when I call is being made to the Door Station.
Name Plate	Removable clear plate to place Name/Address information behind with White Back-light.
Call Button	To start a call from the intercom
Module Slot	List of available modules.
	- Bluetooth Module (9155046)
	- RFID Card Reader 13.56MHz NFC Ready (9155042)
	- Touch Display (9155036)
	- Keypad Module (9155031/9155031B)
- Tamper Switch (9122038)	

## Internal Wiring

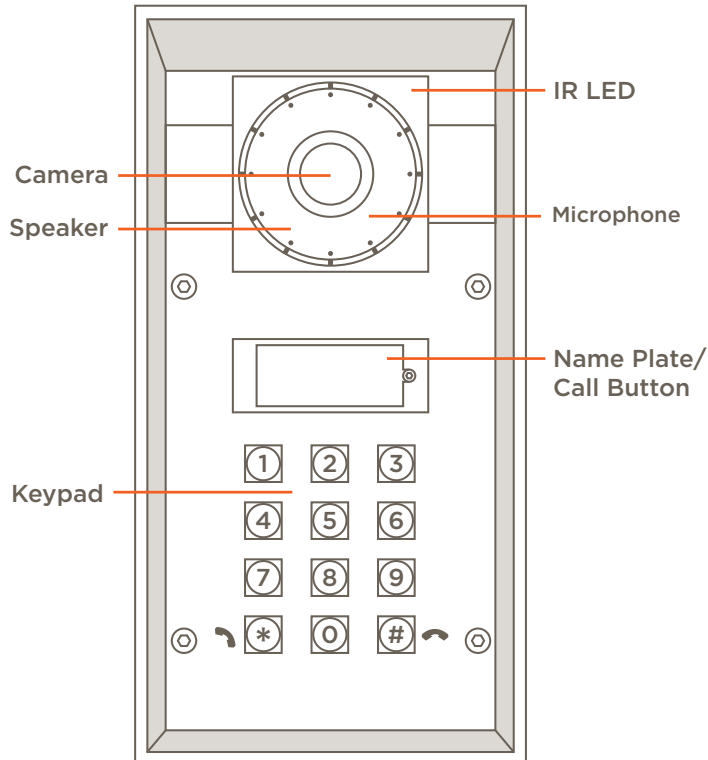


LAN (PoE)	RJ-45 female connector (optional PoE 802.3af)
In1	Sense input -30V to +30V DC OFF: open OR $U_{IN} > 1.5V$ ON: closed OR $U_{IN} < 1.5V$
Out1	Active Output 8 to 12V DC max 400mA (PoE: 10V; adapter: power supply voltage minus 2V)
Relay1	Normally Open/Normally Closed 30V 1A AC/DC max
12V/2A	External 12V 2A connection.
Ground	Grounding terminal
Bus	Module bus connection
Reset	Reset/Factory Reset button Press button for <1s to reboot the unit
LED indicators	Red/Green/Yellow
Line Out	Audio line out ( $1V_{RMS}$ )
Mic	Microphone connection



### 3.5. Heavy Gate Station (2N IP Force)

#### Front Panel

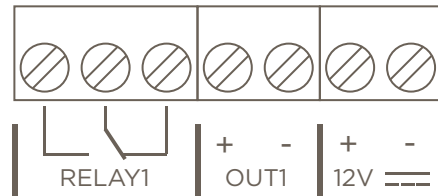


Camera	Wide-angle IP camera used to view who/what is at the entry.
IR LED	Infrared LED for the night vision camera.
Speaker	Audio Output.
Microphone	Audio Input.
Name Plate/ Call Button	Removable clear plate to place Name/Address information behind with White Backlight. Press to start a call to the intercom
Keypad	12 button keypad used to start and end intercom calls. Also can be used to enter codes to dial a certain apartment/residence or open a door

#### Internal Wiring



LAN	RJ-45 female connector (optional PoE 802.3af)
Relay1	Normally Open/Normally Closed 30V 1A AC/DC max
Out1	Active Output 8 to 12V DC max 400mA (PoE: 10V; adapter: power supply voltage minus 2V)
12V	External 12V 2A connection.



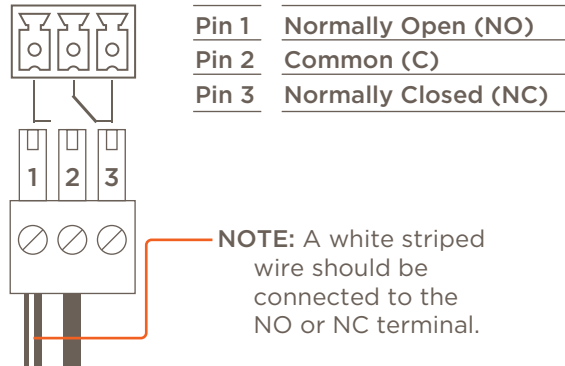
## 4. Wiring and Connections

### 4.1. Network

The 2N Door Stations use a standard RJ-45 port complying with IEEE 802.3 Ethernet standards. This port also supports Power over Ethernet (PoE) complying with IEEE 802.3af standards.

### 4.2. Relay

A relay port is used when a device is controlled via a normally open (NO) or normally closed (NC) relay.

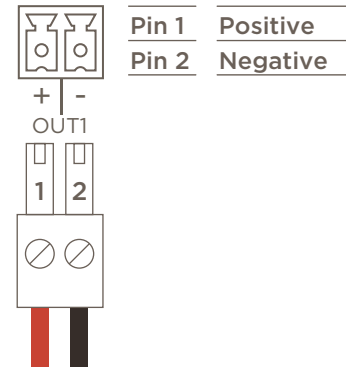


**⚠ IMPORTANT!** The diagram above show the wiring for the Door Station and the Heavy Gate Station. On the Single Height Door Station the wiring order is reversed, having the NC terminal on the left side.

**⚠ IMPORTANT!** While Blueprint allows for control of the Relay directly, it is recommended that they are controlled using a 2N programmed “Switch” in the 2N’s web-GUI. This ensures the best possible user experience.

### 4.3. Out1

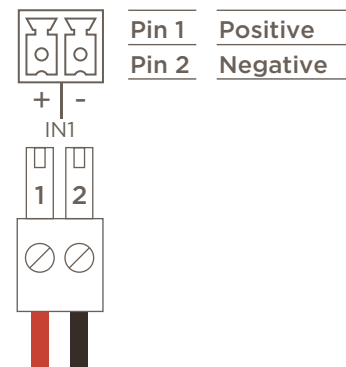
This is an active output that provides power to a device that can be controlled by power being supplied by an external device.



**⚠ IMPORTANT!** The diagram above show the wiring for the Door Station and the Heavy Gate Station. On the Single Height Door Station the wiring order is reversed, having the Negative terminal on the left side.

### 4.4. In1

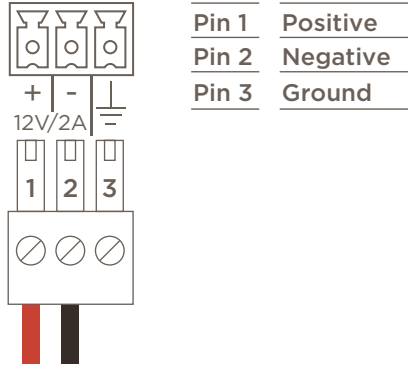
This is an active input that senses if an external device is providing power or not. This creates a state can be tracked for use in triggers. This control connection is on the Door Station and the Single Height Door Station.



**⚠ IMPORTANT!** The diagram above show the wiring for the Door Station. On the Single Height Door Station the wiring order is reversed, having the Negative terminal on the left side.

## 4.5. Power Connection

Savant strongly recommends using PoE. If PoE is not available a 12V 2A external power supply can be used.



**⚠ IMPORTANT!** The diagram above show the wiring for the Door Station and the Heavy Gate Station. On the Single Height Door Station the wiring order is reversed, having the Negative terminal on the left side.

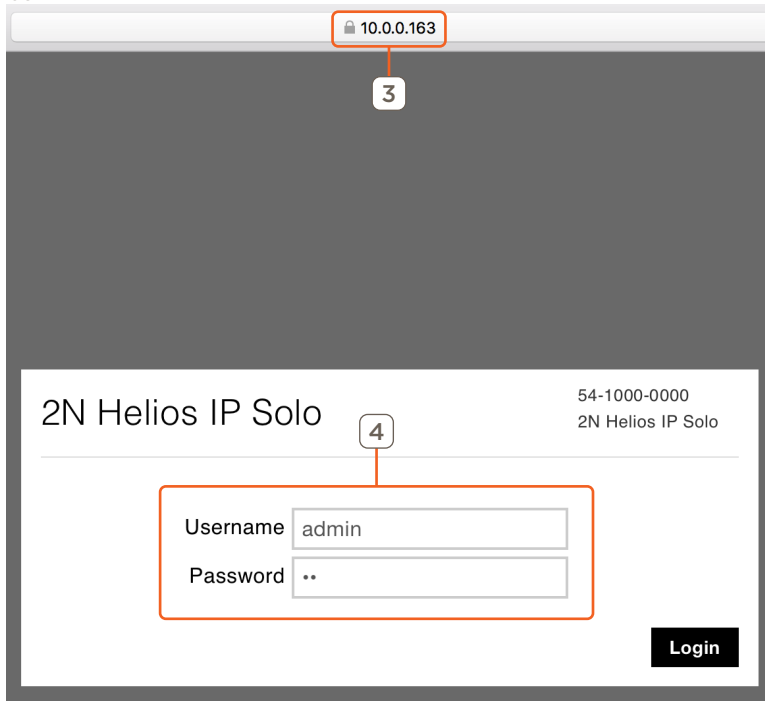
## 5. Door Station Configuration

This section shows how to configure any of the Savant sold 2N Door Stations for use within a Savant System.

### 5.1. Connect/Login

To Connect and configure a 2N Door Station do the following:

- Find IP Address of the Door Station.  
Either use a any network scanning software or the 2N Network Scanner.  
**NOTE:** The “2N Network Scanner” application is available in the Mac App Store (requires OS X 10.11.x or higher).
- Open a web browser.
- Enter the Door Stations IP Address in the web browsers address bar.



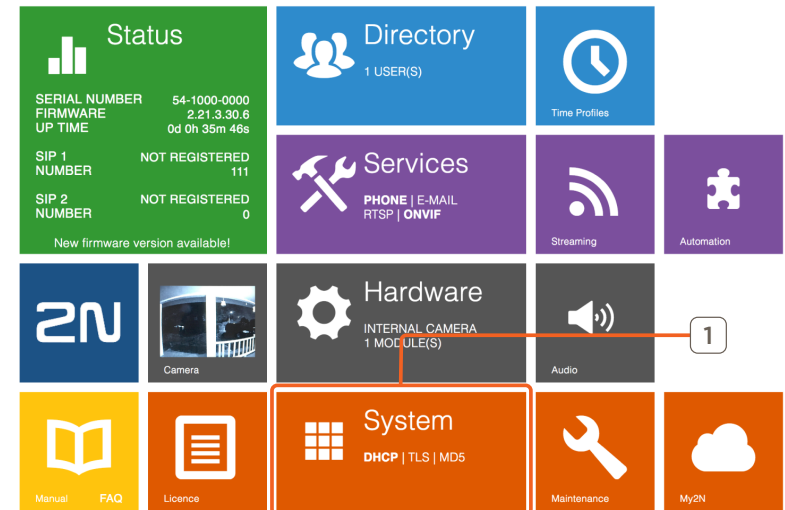
- Enter Username and Password for the Door Station.  
The default username / password of 2N units is:  
Username: admin  
Password: 2n  
**NOTE:** Once the default login credentials have been entered, an immediate password change is required.

### 5.2. Firmware Update

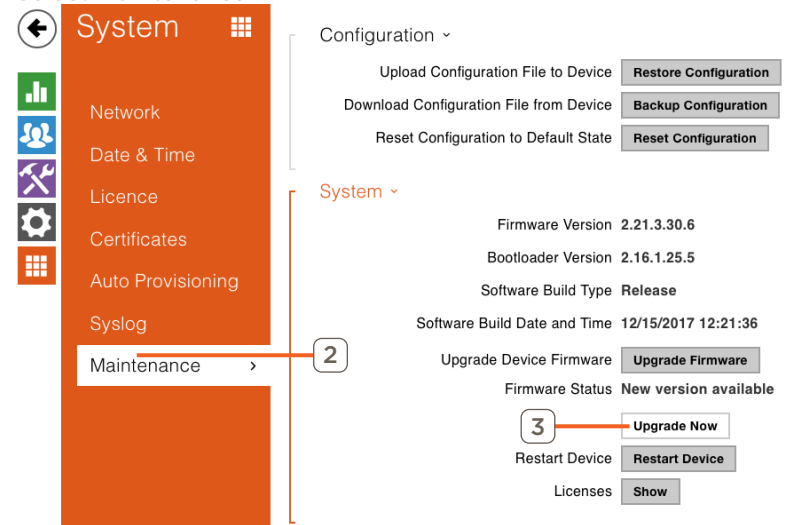
This process should only need to be done the first time the Door Station is setup.

In a web browser log in to the Door Station to be configured.

- Select System.  
Device Status



- Select Maintenance.



- Click Upgrade Firmware.

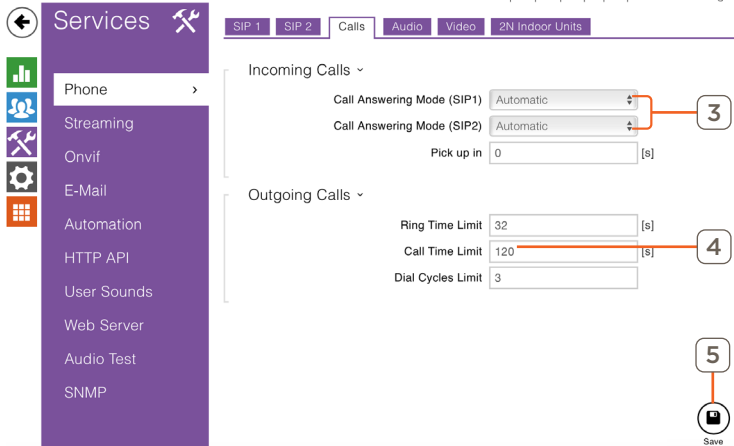
### 5.3. Services

In a web browser log in to the Door Station to be configured.

1. Select Services



2. Select Phone > Calls.
3. Set Incoming Calls to Automatic for both SIP1 and SIP2.

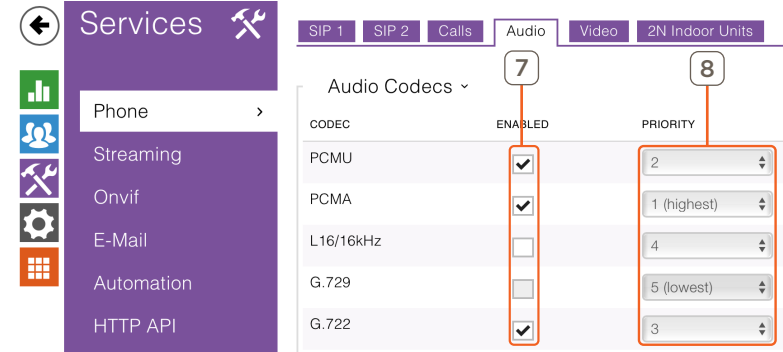


4. Set Call Time Limit.  
This is a max duration of the call before the intercom terminates the call.

**i** **HELPFUL INFO:** Setting the “Call Time Limit” to zero will make the call have an unlimited time.

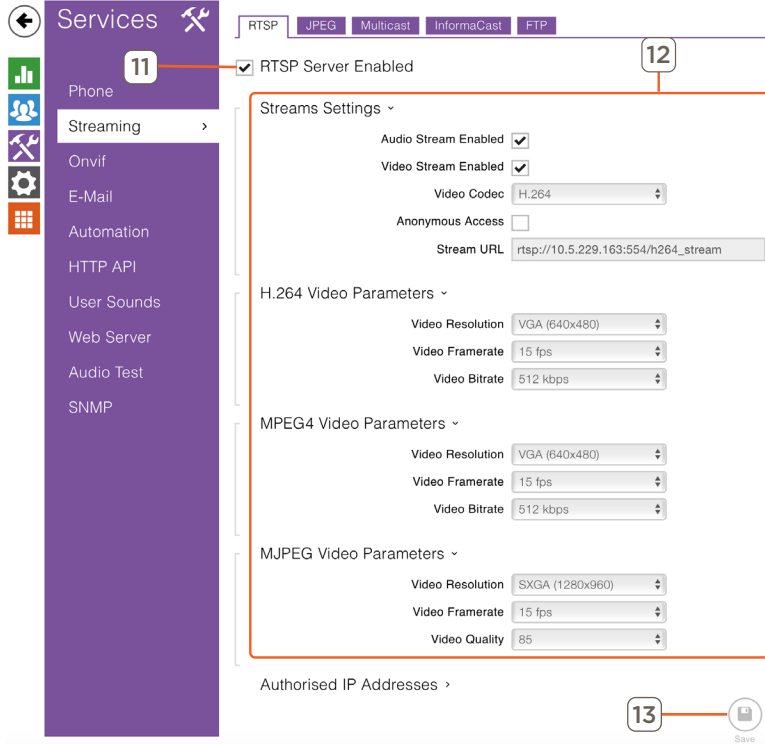
5. Click Save

6. Select Phone > Audio
7. Enable PCMA, PCMU and G.722.



8. Set Priority:  
PCMA - 1 Highest  
PCMU - 2  
G.722 - 3
9. Click Save.

10. Select Streaming > RTSP
11. Click the check box RTSP Server Enabled.

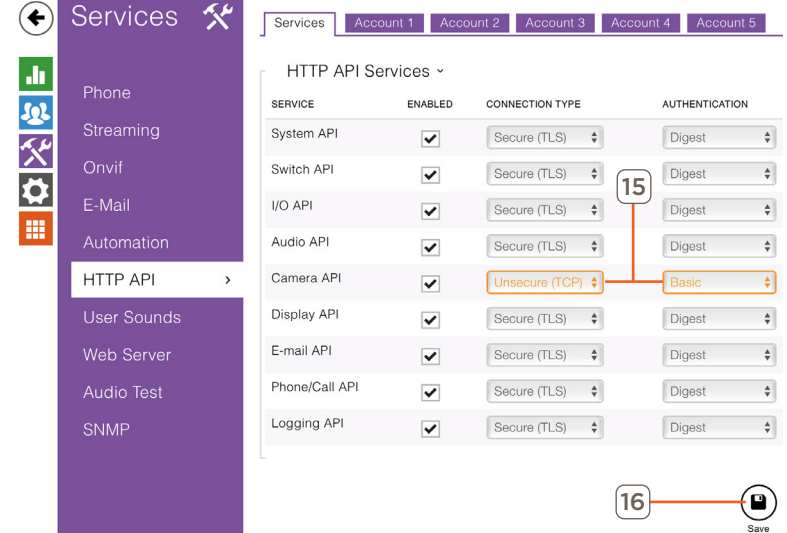


12. Make the changes necessary based on the table below.

Streams Settings	
Audio Stream Enabled	Checked
Video Stream Enabled	Checked
Video Codec	H.264
H.264/MPED4 Video Parameters	
Video Resolution	VGA (640x480)
Video Framerate	15 fps
Video Bitrate	512 kbps
MJPEG Video Parameters	
Video Resolution	SXGA (1280x960)
Video Framerate	15 fps
Video Quality	85

13. Click Save.

14. Select HTTP API > Services.
15. Set Camera API to the following:

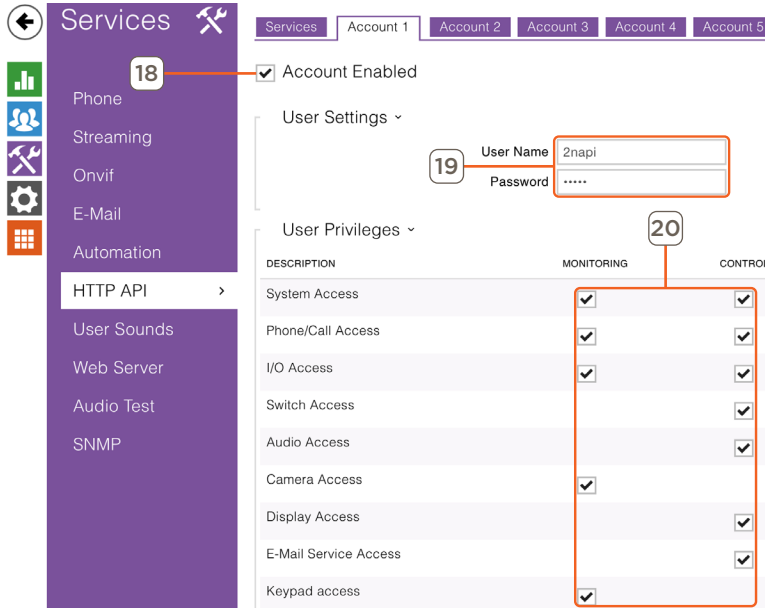


Connetion Type: Unsecure (TCP)  
Authentication: Basic

16. Click Save.

17. Select HTTP API > Account 1.

18. Check Account Enabled.



19. Create an User Name and Password.

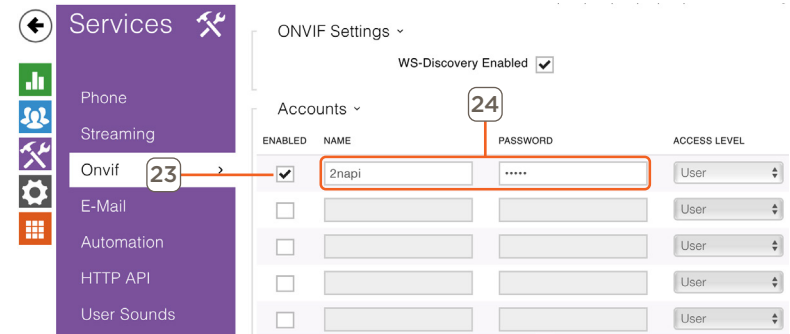
**!** **IMPORTANT!** This login is different than the admin login used to make changes to the Door Station it self. These credentials will be used later in the ONVIF setup.

20. Enable all User Privileges.

21. Click Save.

22. Select Onvif

23. Enable the first Account.



24. Enter the NAME, and PASSWORD

**!** **IMPORTANT!** Make sure to use the Username and password from HTTP API Account

25. Click Save.

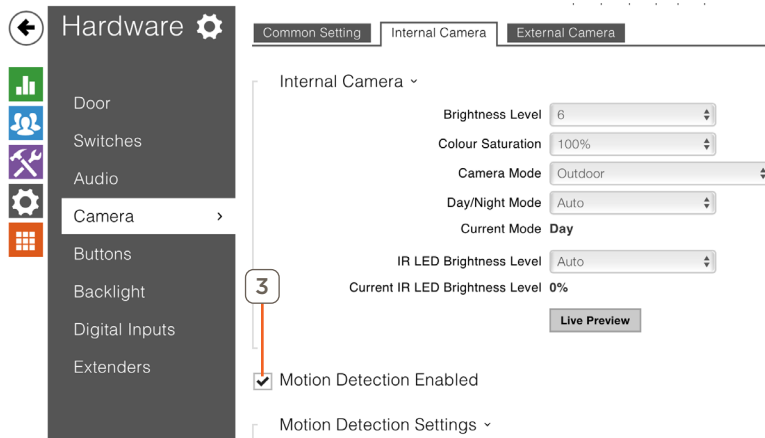
## 5.4. Hardware

In a web browser log in to the Door Station to be configured.

1. Select Hardware



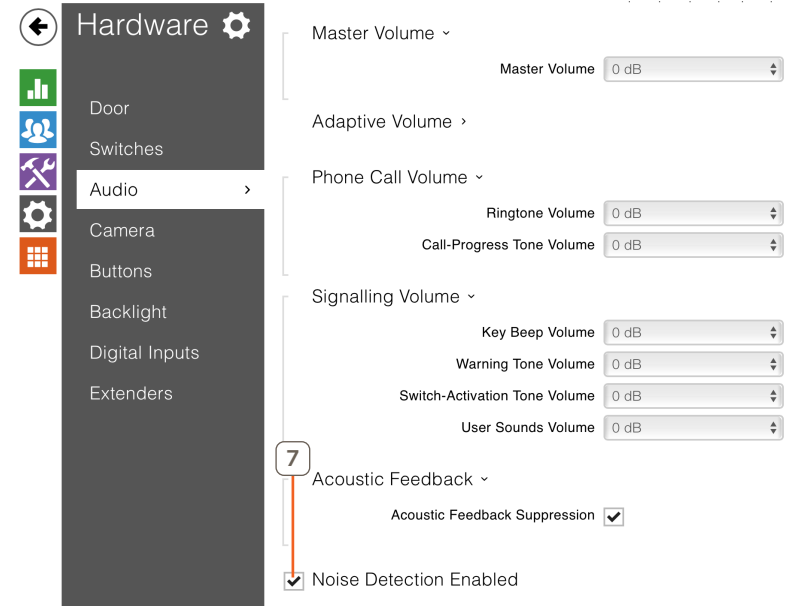
2. Select Camera > Internal Camera.
3. Select Motion Detection Enabled.



4. Make any adjustments to sensitivity settings.
5. Click Save.

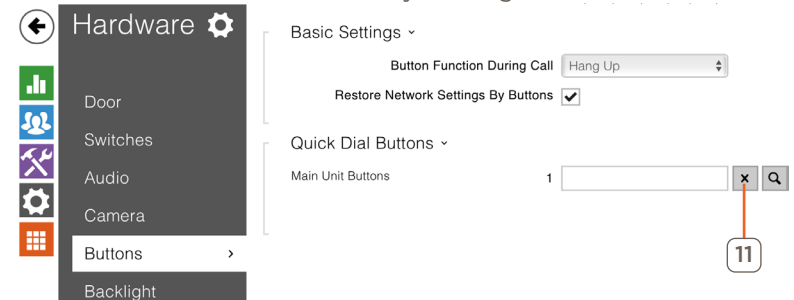
**⚠ IMPORTANT!** Motion/Noise Detection should not be enabled until the unit has been installed and Must have the sensitivity adjusted so the Host is not flooded with events (This will degrade system performance).

6. Select Audio
7. Select Noise Detection Enabled



8. Make any adjustments to sensitivity settings.
9. Click Save.
10. Select Buttons.

11. Disable the Quick Dial Buttons by clicking the x.



12. Click Save.

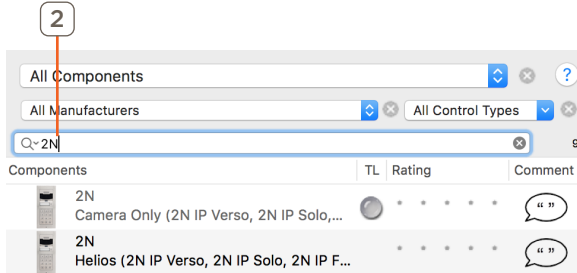


## 6. Blueprint

To add a 2N Door Station to a configuration there is one profile that works for all Savant supported 2N IP Intercom models.

In an open Blueprint configuration do the following.

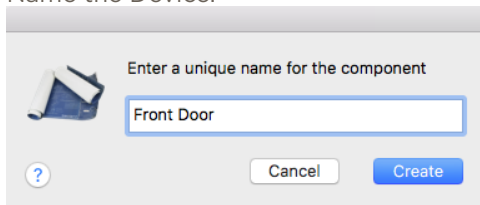
1. Click **Show Library**.
2. In the Search bar type 2N.



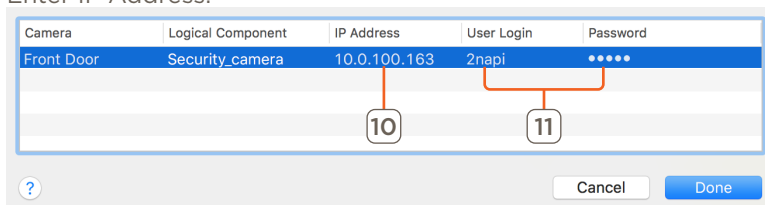
3. Select the 2N Helios Door Station and drag it into a Shared Equipment zone.

**NOTE:** This one profile works for all Savant sold 2N Door Stations.

4. Name the Device.

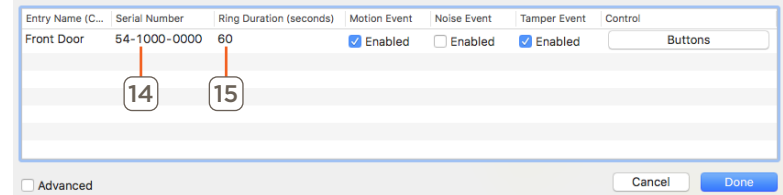


5. Place the Door Station in the layout window.
6. Select the Door Station.
7. Make the Control connection (Ethernet).
- !** **IMPORTANT!** Do NOT enter an IP Address in inspector.
8. Click Generate Services.
9. Go to Tools > Settings > Security Camera...
10. Enter IP Address.

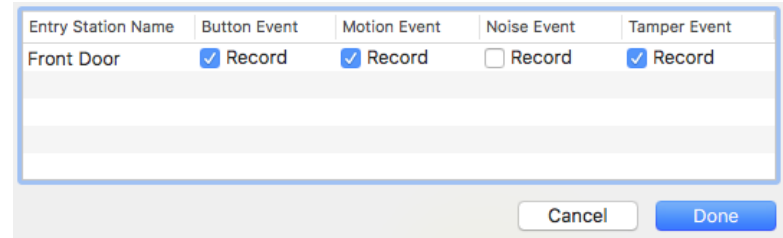


11. Enter User Login and Password.  
The HTTP API/ONVIF data from the Door Stations configuration must be used.

12. Click Done.
13. Go to Tools > Settings > Entry...
14. Enter the Serial Number of the Door Station.



15. Set the Ring Duration  
**NOTE:** This can not be set below 30 seconds or above 60 seconds.
16. Click Done.
17. Go to Tools > Settings > Entry Event Recording...
18. Enable the Events that are desired.



**NOTE:** These events must be enabled in the 2N configuration.

- !** **IMPORTANT!** Motion/Noise Detection should not be enabled until the unit has been installed and must have the sensitivity adjusted so the Host is not flooded with events (This will degrade system performance).
19. Click Done.

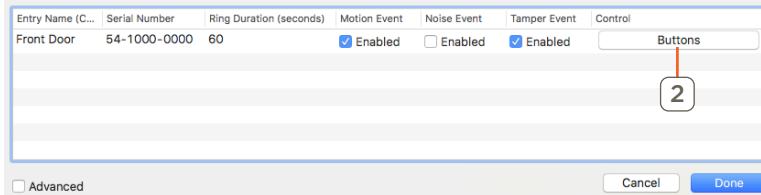
- i** **HELPFUL INFO:**  
In the Entry data table the Advanced check box allows a My2N Security Code to be entered for Intercoms not purchased though Savant. This security code is found on the "Register your Intercom" paper that is included in the box with the door station.

## 6.1. Entry Service Screen Buttons

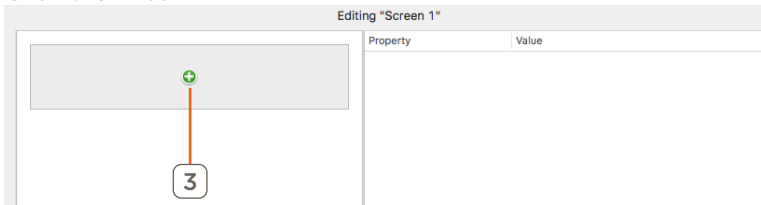
After the Door Station has been placed in Blueprint with a control connection and services have been generated, custom buttons can be added to the Entry Service Screen in the Savant Pro App. In the example below, it will add a button to turn on a flood light that will be turned off by a timed trigger.

In an open Blueprint configuration do the following:

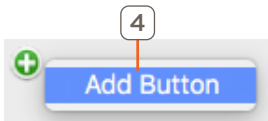
1. Navigate to **Tools > Settings > Entry...**
2. Click Buttons.



3. Click the + icon

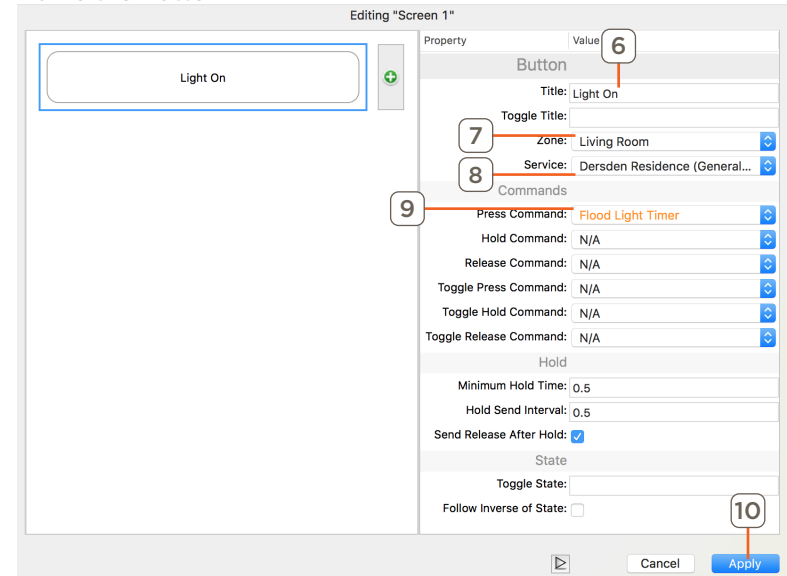


4. Select Add Button.



5. Select the New Button.

6. Name the Button.



7. Select the Zone.
8. Select the Service.
9. Set Press Command.
10. Click Apply.

### NOTES:

- A maximum of 4 custom buttons can be added to this screen.
- This example uses a custom workflow built in General Programmable Service Requests. For more information on custom workflows see **Custom Workflow Development: RacePoint Blueprint Programming Guide** on the **Savant Customer Community**.

## Button Properties

Property	Value	
<b>Button</b>		
Title:	New Button	Title
Toggle Title:		Label for the button.
Zone:	N/A	Toggle Title
Service:	N/A	Select the zone where the device being controlled is located.
<b>Commands</b>		Service
Press Command:	N/A	Select the service that will be controlled using the button. The Zone field above determines which services are available in this field.
Hold Command:	N/A	Press Command
Release Command:	N/A	Select the command that is sent when the button is pressed.
Toggle Press Command:	N/A	Hold Command
Toggle Hold Command:	N/A	Select the command that is sent when the button is pressed and held for a duration equal to or greater than the time set in the Minimum Hold Time field. Minimum Hold Time is described below.
Toggle Release Command:	N/A	Release Command
<b>Hold</b>		Toggle Press Command
Minimum Hold Time:	0.5	If the button is a Toggle type button, send the command when the button is pressed while the toggle state is active (toggled on). The button should have previously been pressed and the command in either the Press or Release fields was sent
Hold Send Interval:	0.5	Toggle Hold Command
Send Release After Hold:	<input type="checkbox"/>	If the button is a Toggle type button, send the command when the button is pressed while the toggle state is active (toggled on) and held for the time set in the Minimum Hold Time field. Minimum Hold Time is described below.
<b>State</b>		Toggle Release Command
Toggle State:		Select the command that is sent when the button is released while it is pressed and released while the toggle state is active (toggled on).
Follow Inverse of State:	<input type="checkbox"/>	Minimum Hold Time
		Sets the duration the button must be pressed and held before detecting a Hold or Toggle Hold command. If the button is held for a duration that is less than the set Minimum Hold Time, only the commands set in the Press, Release, Toggle Press, and Toggle Release are sent.
Hold Send Interval		Sets the amount of time the button must be held for the command to repeat if held past the Minimum Hold Time. The command will be repeated at the time interval for as long as the button is held.
Send Release After Hold		<ul style="list-style-type: none"> <li>- <b>Box Checked:</b> The command set in the Release or Toggle Release Command field is sent after the button is released. Only applicable after a Hold or Toggle Hold Command.</li> <li>- <b>Box Unchecked:</b> The command set in the Release or Toggle Release Command field is NOT sent after each Hold or Toggle Hold Command.</li> </ul>
Toggle State		Enter a Boolean state that the system will track the to determine if the Command or Toggle Command is sent.
Follow Inverse of State		Inverts when the button will use the Command and the Toggle Command.

## 6.2. Audio Interrupt Service (AIS)

This service is most commonly used with a doorbell to play an audio file throughout the home. This section shows the basics of using a system state from a 2N Door Station to create a AIS doorbell. For more detailed information on creating an AIS trigger see the **Audio Interrupt Service (AIS) Configuration for Doorbells** on the **Savant Customer Community**.

In an open Blueprint configuration do the Following:

1. Make an audio connection from the Host to the audio distribution system.
2. Generate Services.
3. Click Review Triggers.
4. Create a new trigger.

The image below shows an example trigger

The screenshot displays the 'Triggers' configuration window in the Savant Blueprint interface. The 'Doorbell' trigger is selected and enabled. The configuration is as follows:

When any of these states change value, evaluate the Rules		
State Name	State Scope	On Set
EntryRing	Front Door.Security_camera	<input type="checkbox"/>

Match the following rule

**if (rules)**

State Name	State Scope	Data Type	Test Condition	Value	Offset
EntryRing	Front Door.Security_camera	boolean	is true		0

Run the following actions: Once

**then**

Request/State/Scene	Service/Scope	Arguments/Data Type	Value	After De...	Override
AutoStartAIS	Living Room-Dersden Residence-RacePointMe...		0		<input type="checkbox"/>

**else**

Drag a state or request here for a "else" action

Buttons: ? Programming View Export Selection... Import... Cancel Save




**IMPORTANT!** Use the EntryRing state for the trigger. Make sure to check how the state reports when the call button is pressed.

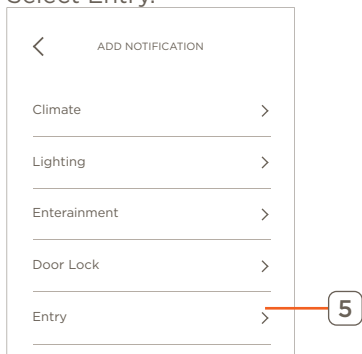
## 7. Remote Calling

To receive calls from the door station when the user is away from the local network there are some additional steps that must be completed. In order for the Savant Pro App to receive calls when the app is closed a notification must be created for each user that wishes to be notified. This example, shows how to configure a notification for whenever the call from the door station is placed.

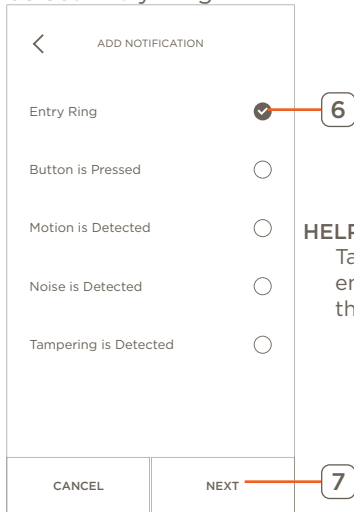
**⚠ IMPORTANT!** If the Door Station has been installed and configured using the 2N App. The Door Station must be completely removed from all my2n.com accounts in order for remote calling to work.

Follow these steps:

1. From the Home screen tap the  icon.
2. Tap the  icon.
3. Swipe up and select Notifications.
4. Tap the  icon.
5. Select Entry.

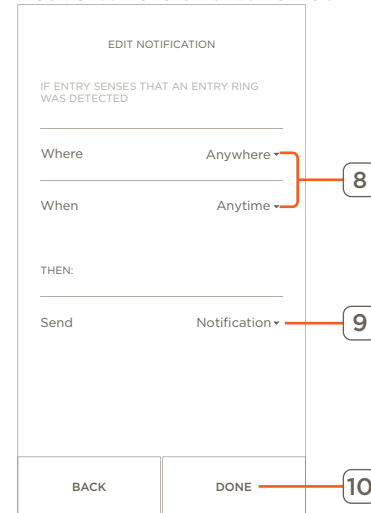


6. Select Entry Ring.



7. Tap Next.

8. Leave Where and When as Anywhere and Anytime.



9. Select Send Notification.

10. Tap Done.




**HELPFUL INFO:** The Entry Ring notification will display once every 5 seconds for the ring duration of the entry.

**HELPFUL INFO:** Motion, Noise, or Tampering Detection must be enabled in Blueprint to receive these notifications.

## 8. System Monitor

In System Monitor, there is a Entry tab for information gathering.

**Entry Devices**

	<b>Front Door</b> 2N IP Solo <span style="color: green;">Connected</span>

Extensions	Device
9159173642	None
9159171426	None
9159173201	None
9159173502	Android Control App
9159170575	Work iPad

**Device Status**

Model: 2N IP Solo  
 IP: [10.0.100.163](#)  
 Serial Number: 54-1000-0000  
 Firmware Version: 2.24.0.33.7  
 Device On Call: None  
 Entry Ring State: 0  
 Entry Ring Timestamp: N/A  
 SIP Extension: 9159175184  
 Last Event Detected: Motion Event Detected  
 Recording Timestamp: 09/27/2018 15:43 UTC  
 Recording Error: N/A  
 Recording Error Code: N/A  
 Event Log Subscription ID: 532898285  
 2N Cloud Registration: Registered  
 Relay 1: 0  
 Relay 2: 0  
 Output 1: 0  
 Output 2: 0

Entry Devices	List of Intercoms in the configuration. This list displays if the Host has established communication with the intercom.
Extensions	List of Extensions used by the system. This list displays the name of the device connected to the extensions.
Device Status	Device and connection information. See the Device Status below for more information

## Device Status

### Device Status

Model: 2N IP Solo  
IP: [10.0.100.163](http://10.0.100.163)  
Serial Number: 54-1000-0000  
Firmware Version: 2.24.0.33.7  
Device On Call: None  
Entry Ring State: 0  
Entry Ring Timestamp: N/A  
SIP Extension: 9159175184  
Last Event Detected: Motion Event Detected  
Recording Timestamp: 09/27/2018 15:43 UTC  
Recording Error: N/A  
Recording Error Code: N/A  
Event Log Subscription ID: 532898285  
2N Cloud Registration: Registered  
Relay 1: 0  
Relay 2: 0  
Output 1: 0  
Output 2: 0

Model:	Name of the door station model selected.
IP:	IP Address of the intercom selected. Clicking on the IP Address will open a web browser to the configuration page.
Serial Number:	Serial Number of the door station selected.
Firmware Version:	Active firmware version.
Device On Call:	Displays if the door station has an active call.
Entry Ring State:	Current state of the EntryRing.
Entry Ring Timestamp:	Time stamp of the last EntryRing state change.
SIP Extension:	SIP extension of the intercom.
Last Event Detected:	Displays the type event that occurred most recently.
Recording Timestamp:	Time stamp of the last recording event.
Recording Error:	Displays if there has been a recording error.
Recording Error Code:	Give the error code of the last recording error.
Event Log Subscription ID:	Unique ID of the process that is fetching logs.
2N Cloud Registered:	Displays if the intercom is registered with the 2N cloud. This is required for remote calling to function.
Relay 1:	Current state of Relay 1.
Relay 2:	Current state of Relay 2.
Output 1:	Current state of Output 1.
Output 2:	Current state of Output 2.

## Appendix A: Switch Configuration

This section is only needed if the Door Station's Relay or a GPIO is going to be used in the Savant configuration. Also if the 2N Door Station has a keypad and it is desired to have a key code to activate a Relay or an GPIO. This example of uses the output of the Door Station to supply voltage to a 3rd party door lock. Switches should be used to control automatic door locks, gates, and garage doors.

For full feature information see the [2N IP Configuration Manual](#). This document can also be found on the [Savant Customer Community](#), See the [2N Door Station Integration with Savant Application Note](#).

**⚠ IMPORTANT!** If a use of a Entry Code is desired a switch must be programmed.

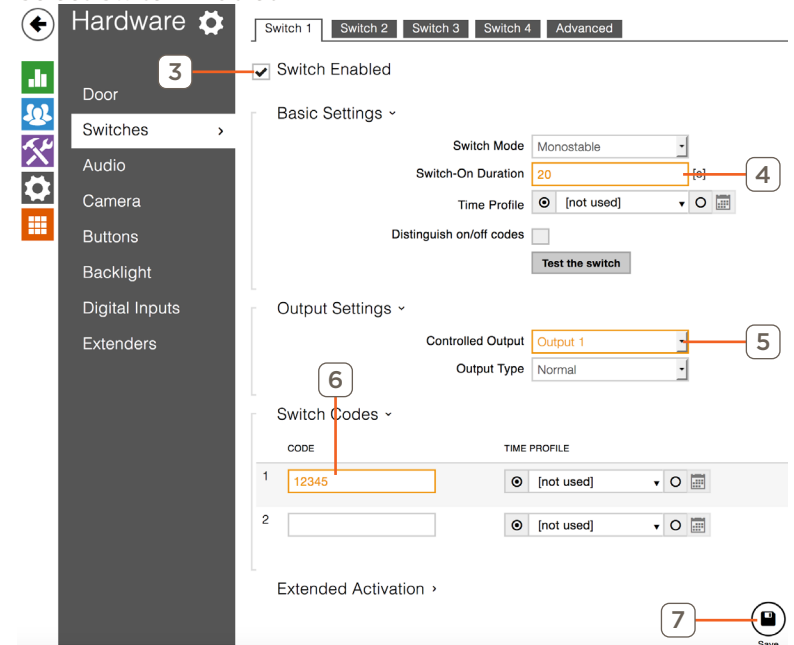
In a web browser log in to the Door Station to be configured.

1. Select Hardware



2. Select Switches > Switch 1.

3. Select Switch Enabled.



4. Enter the number of seconds for the duration.
5. Select Output 1.
6. Enter a Code if desired.  
Code is to activate the programmed switch from the keypad.

**NOTE:** Profiles allow for access and control to be configured by users. Users can be given unique codes as well as time profiles for restricted Entry access. For information see the [2N IP Configuration Manual](#).

7. Click Save.



## Switch Properties

### Basic Settings ▾

Switch Mode  ▾  
 Switch-On Duration  [s]  
 Time Profile  [not used] ▾    
 Distinguish on/off codes

### Output Settings ▾

Controlled Output  ▾  
 Output Type  ▾

### Switch Codes ▾

	CODE	TIME PROFILE
1	<input type="text" value="00"/>	<input checked="" type="radio"/> [not used] ▾ <input type="radio"/>
2	<input type="text"/>	<input checked="" type="radio"/> [not used] ▾ <input type="radio"/>

Switch Mode	Monostable: The switch will be on for the amount of time in the duration field below. Bistable: The switch will be on until turned off.
Switch-On Duration	This only applies to Switch Mode Monostable, time in seconds before the switch is turned off.
Controlled Output	Drop-down menu to chose the output device. Relay or Voltage Output.
Code	If desired a numeric code can be entered to operate this switch from the keypad on the Door Station. * Requires IP Verso with touch display/keypad or the IP Force

### NOTES:

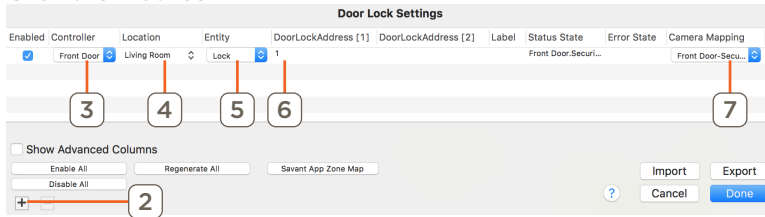
- This table only describes the fields that are commonly used in Savant's deployment.
- For full information on switch features see the **2N IP Configuration Manual**.

## Appendix B: Door Lock Service

Follow the instructions from 2N to install and control a door lock using 2N Switches. This section details how to include a door lock in Blueprint and the Savant Pro App.

In an open Blueprint configuration do the following:

1. Go to Tools > Settings > Door Locks
2. Click the Plus icon.



3. Select the Door Station as the controller.
4. Select a Location.
5. Select Entity.
6. Enter Switch Address.  
This will be 1-4, to match the enabled Switch in the 2N web configuration.
7. Select the Camera Mapping.
8. Click Done.

For more information on the Door Lock service see the [Savant Pro 8 Door Lock Service Overview](#) and the [Savant Customer Community](#).

## Appendix C: External Camera Feeds

It's possible to not use the internal camera of the door station for the camera feed shown in the Savant App for the Entry and Camera service for the door station. This is helpful if there's another camera that has a better view of the entry.

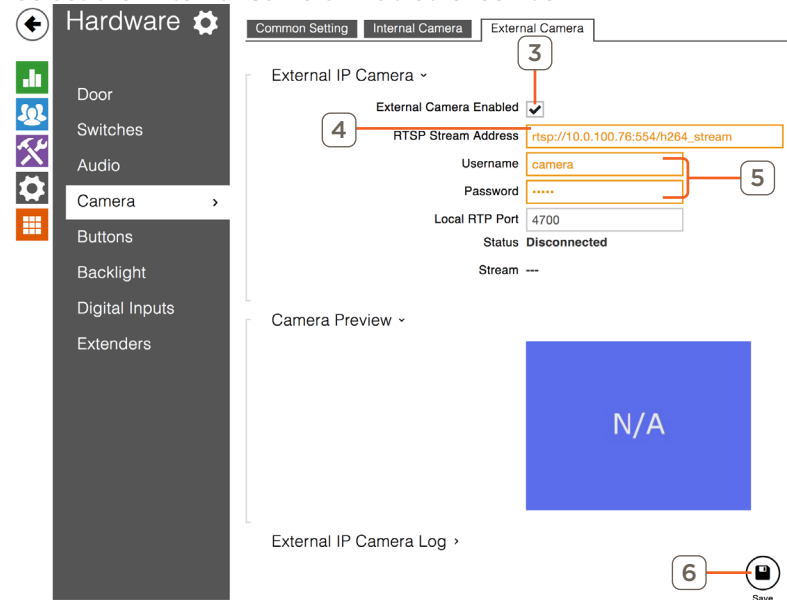
Once connected to the door station's admin web-UI follow the steps below:

1. Select Hardware.

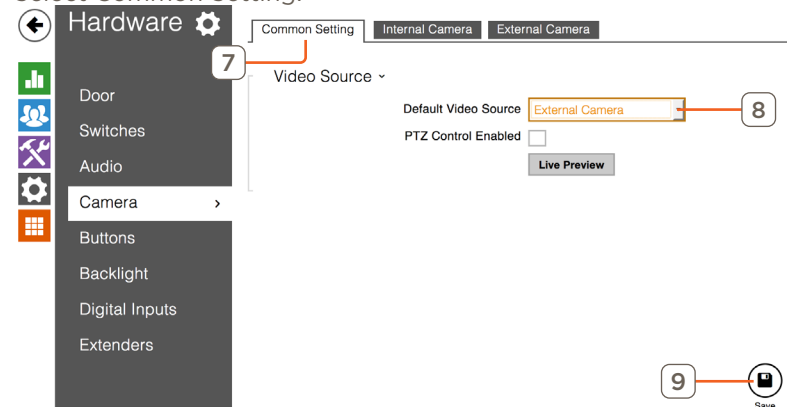


2. Select Camera > External Camera.

3. Select the External Camera Enabled check box.



4. Enter the external camera's URL (rtsp).
5. Enter the Username and Password for the camera.
6. Click Save.
7. Select Common Setting.



8. Change Default Video Source to External Camera.
9. Click Save.

## Appendix D: Static IP Address

Savant recommends using DHCP. If a static IP Address is required it can be set in the Door Stations admin web-UI.

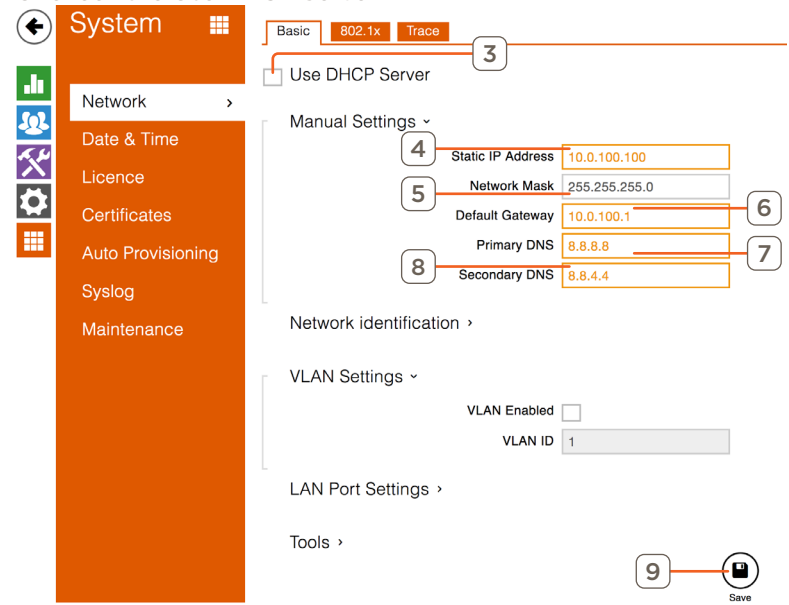
Once connected to the door station's admin web-UI follow the steps below:

1. Select System.



2. Select Network > Basic.

3. Uncheck the Use DHCP Server.



4. Enter Static IP Address.
  5. Change Network Mask if required.
  6. Enter Default Gateway.
  7. Enter Primary DNS.
- IMPORTANT!** If the DNS is not set remote calling will not work.
8. Enter Secondary DNS.
  9. Click Save.

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