

## Entry Service using 2N Door Stations - Deployment Guide

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Document Supports: da Vinci 8.9 and Higher

This document guides the installer through deploying, configuring, and adding a 2N Door Station and associated Entry Service to a Savant Pro System. Products supported by this document include the following:

- 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

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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 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.

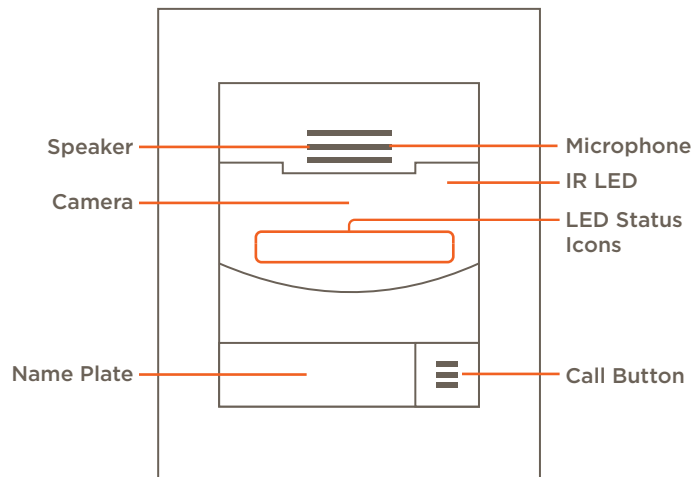
Download links for the installation documentation:





- [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](#).

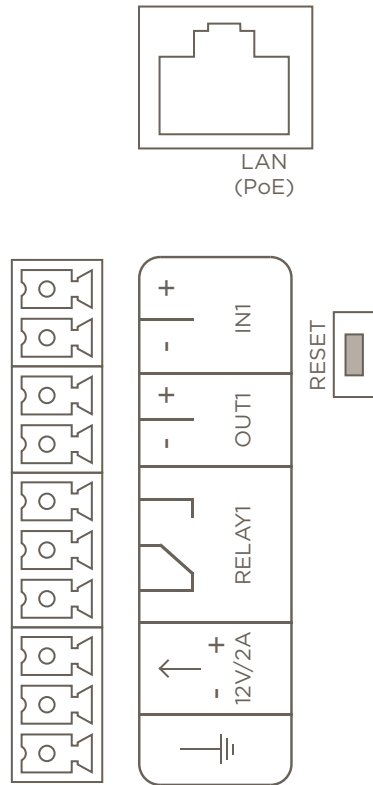
#### 3.3. Door Station Single Height (2N IP Solo)

##### Front Panel



<b>Speaker</b>	Audio output.
<b>Microphone</b>	Audio input.
<b>IR LED</b>	Infrared LED for night vision.
<b>Camera</b>	Wide-angle IP camera.
<b>LED Status Icons</b>	 <b>Door Open:</b> Attached door lock is been opened.
	 <b>Locked:</b> Zone is locked.
	 <b>Active Call:</b> An active call is in progress.
	 <b>Ringin</b> g: A call is being made to the door station.
<b>Name Plate</b>	Removable clear plate to place information behind with white back-lighting.
<b>Call Button</b>	Press to start a call.

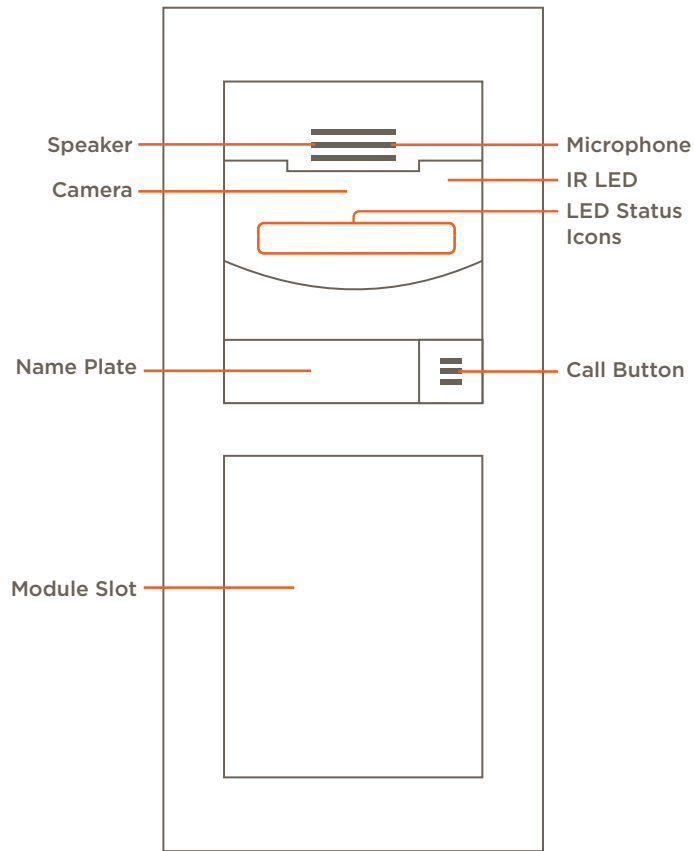
## Internal Wiring







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

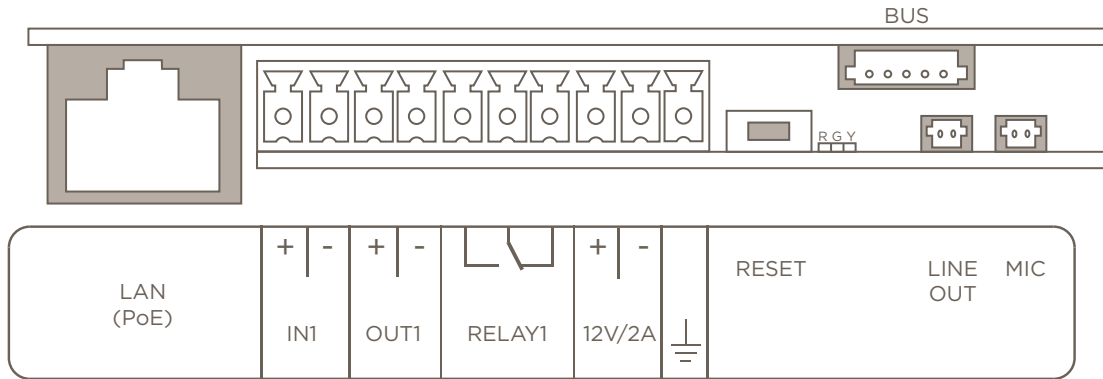
### 3.4. Door Station (2N IP Verso)

#### Front Panel



<b>Speaker</b>	Audio output.
<b>Microphone</b>	Audio input.
<b>IR LED</b>	Infrared LED for night vision.
<b>Camera</b>	Wide-angle IP camera.
	 <b>Door Open:</b> Attached door lock is been opened.
	 <b>Locked:</b> Zone is locked.
<b>LED Status Icons</b>	 <b>Active Call:</b> An active call is in progress.
	 <b>Ringling:</b> A call is being made to the door station.
<b>Name Plate</b>	Removable clear plate to place information behind with white back-lighting.
<b>Call Button</b>	Press to start a call from the intercom.
	List of available modules.
<b>Module Slot</b>	<ul style="list-style-type: none"> <li>- Bluetooth Module (9155046)</li> <li>- RFID Card Reader 13.56MHz NFC Ready (9155042)</li> <li>- Touch Display (9155036)</li> <li>- Keypad Module (9155031/9155031B)</li> <li>- Tamper Switch (9122038)</li> </ul>

## Internal Wiring

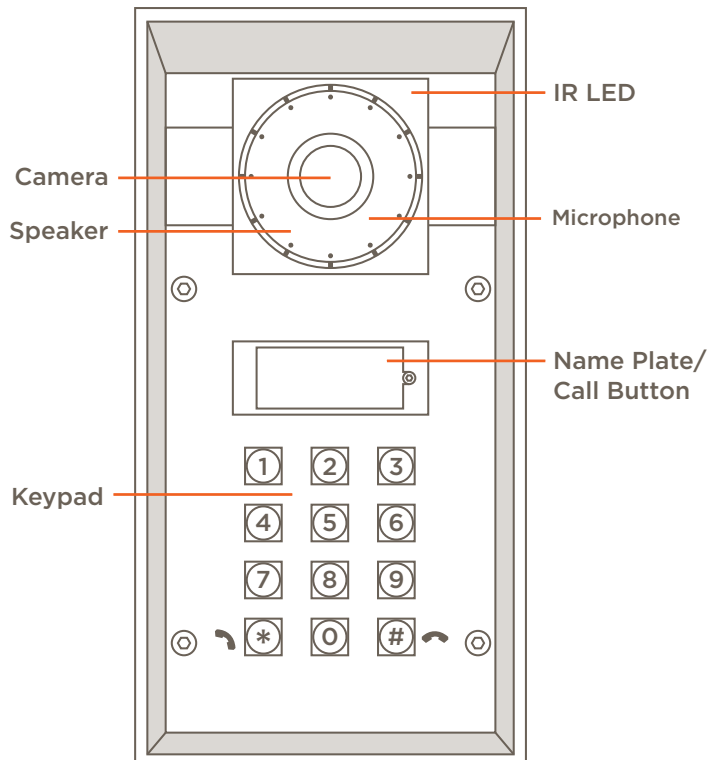


<b>LAN (PoE)</b>	RJ-45 female connector. <b>PoE:</b> 802.3af
<b>In 1</b>	Sense input -30V to +30V DC. <b>OFF:</b> open OR $U_{IN} > 1.5V$ <b>ON:</b> closed OR $U_{IN} < 1.5V$
<b>Out 1</b>	<b>Normal:</b> Active Output 8 to 12V DC max 400mA. <b>PoE:</b> 10V; adapter: power supply voltage minus 2V
<b>Relay 1</b>	Normally Open (NO) / Normally Closed (NC) 30V 1A AC/DC max.
<b>12V / 2A</b>	External 12V 2A connection.
<b>Ground</b>	Grounding terminal.
<b>Bus</b>	Module bus connection.
<b>Reset</b>	Factory Reset button. Press and hold for 2 seconds to reboot the unit.
<b>LED indicators</b>	Red/Green/Yellow
<b>Line Out</b>	Audio line out ( $1V_{RMS}$ )
<b>Mic</b>	Microphone connection.



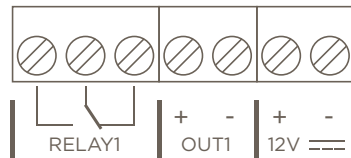
### 3.5. Heavy Gate Station (2N IP Force)

#### Front Panel



<b>Camera</b>	Wide-angle IP camera.
<b>IR LED</b>	Infrared LED for the night vision.
<b>Speaker</b>	Audio Output.
<b>Microphone</b>	Audio Input.
<b>Name Plate/Call Button</b>	Removable clear plate to place information behind with white back-lighting. Press to start a call.
<b>Keypad</b>	12 button keypad used to start and end intercom calls. Enter codes to dial a residence or open a door.

#### Internal Wiring



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

## 4. Wiring and Connections

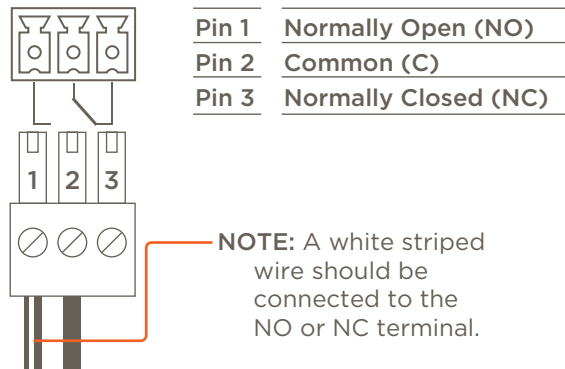
**⚠ IMPORTANT!** The diagrams below show the wiring for Door Station and Heavy Gate Station configurations. On the Single Height Door Station the wiring order is reversed. (Negative to Pin 1, Positive to Pin 2.)

### Network

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.

### Relay

A relay port used to control a device is controlled via a Normally Open (NO) or Normally Closed (NC) relay.

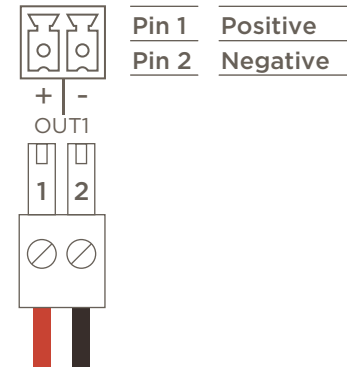


### ⚠ IMPORTANT NOTES!

- On Single Height door stations: Negative to Pin 1, Common to Pin 2, Positive to Pin 3.
- While Blueprint allows for relay control directly, Savant recommends that relays are controlled using a 2N programmed "Switch" in the 2N's web-GUI. This ensures the best possible user experience.

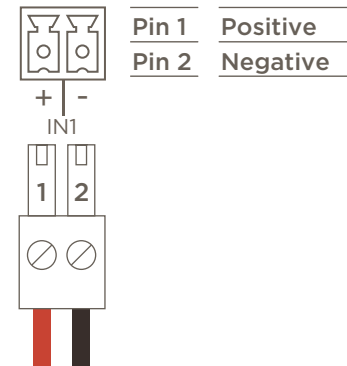
### Out 1

An active output that provides power to a device. This is used to control power to an external device.



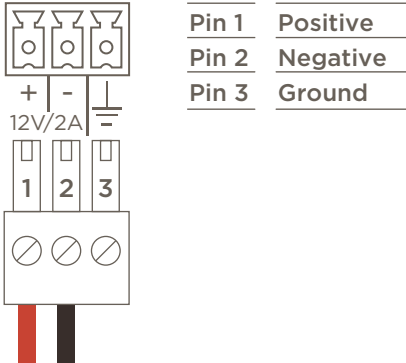
### In 1

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.



# 4.1. Power Connection

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



## 5. WebUI Configuration

This section describes how to configure a supported 2N Door Station to be integrated into a Savant system.

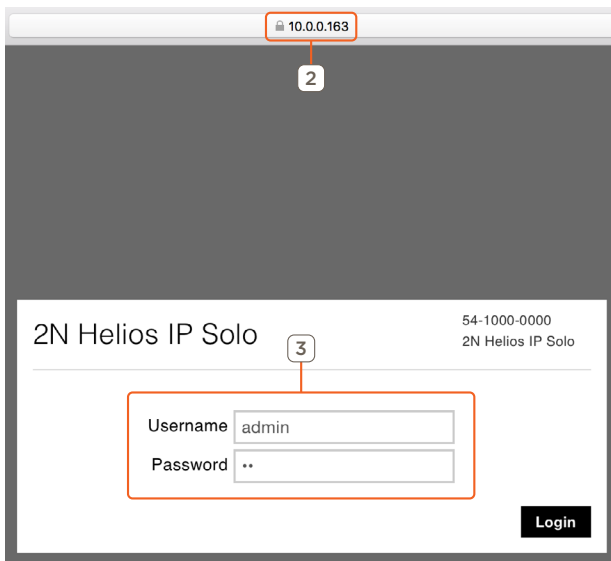
### 5.1. Connect/Login

To connect the webUI, do the following:

1. Find **IP Address** of the door station.

**IMPORTANT NOTE:** This can be found via the 2N Network Scanner application or a network scanning software. The “2N Network Scanner” application is available in the Mac App Store (requires OS X 10.11.x or higher).

2. Open a web browser and enter the IP address into the address bar.
3. Enter username and password for the door station.

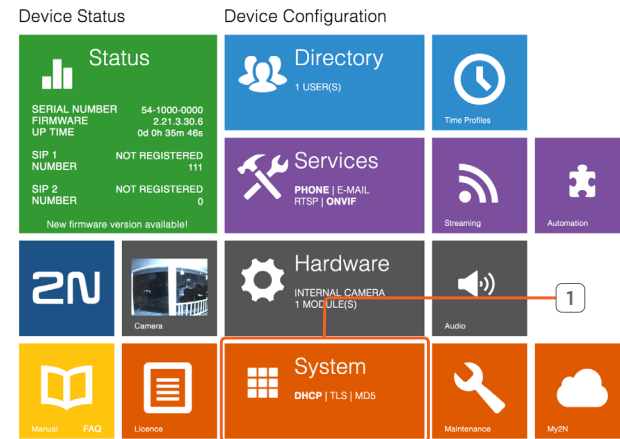


**NOTE:** Once default login credentials have been entered, an immediate password change is required.

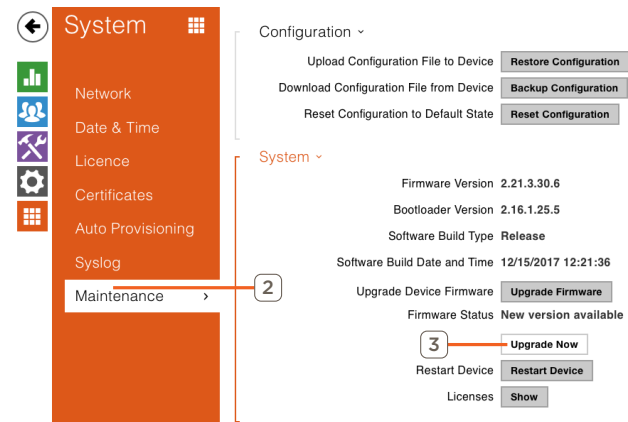
### 5.2. Firmware Update

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

1. Select **System**.



2. Select **Maintenance**.
3. Click **Upgrade Firmware**.



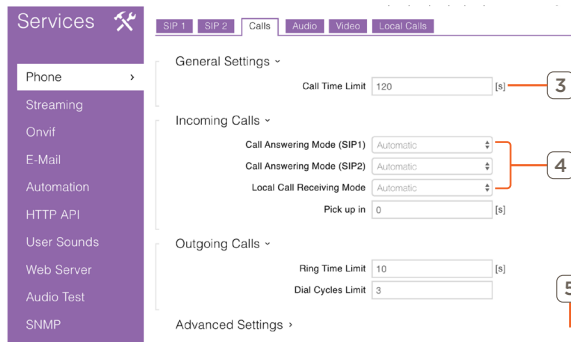
## 5.3. Services

Services must be configured for proper integration of the 2N door station. While logged into the door station, do the following:

1. Select **Services**.



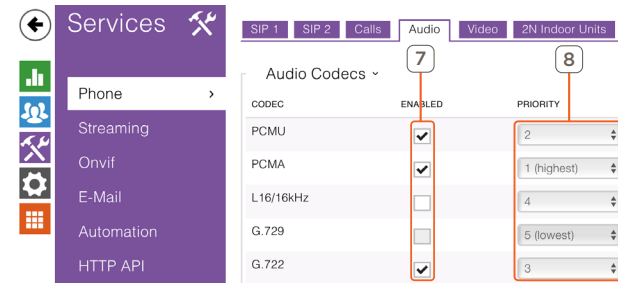
2. Select **Phone > Calls**.
3. Set Incoming Calls to **Automatic** for SIP1, SIP2, and Local Call Receiving Mode.



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

 **HELPFUL INFO:** Set the Call Time Limit to zero to for unlimited call time.

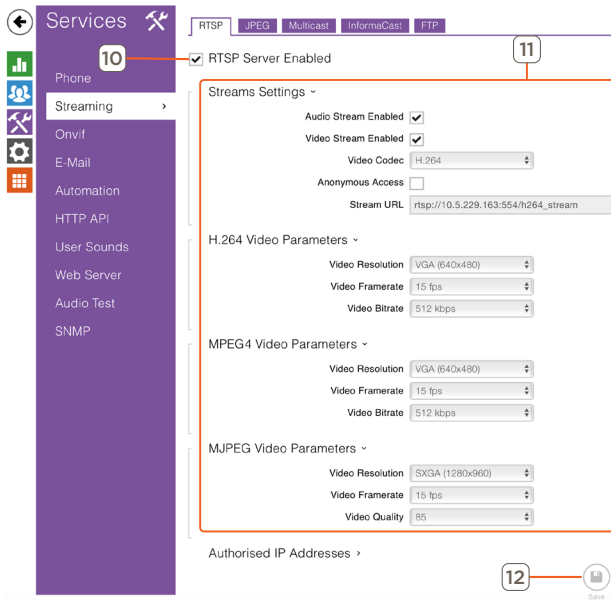
5. Click **Save**.
6. Select **Phone > Audio**.
7. Configure the Audio Codecs described in the image below:



Codec	Enabled	Priority
PCMU	Checked	2
PCMA	Checked	1 (Highest)
G.722	Checked	3

8. Click **Save**.

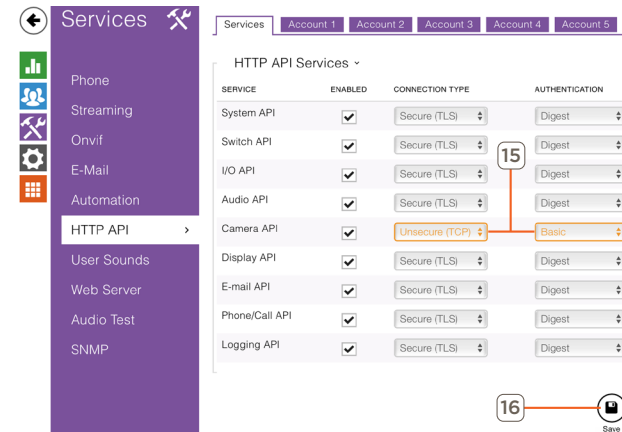
- Navigate to **Streaming > RTSP**.
- Click **RTSP Server Enabled**.



- Ensure settings are configured as follows:

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

- Click **Save**.
- Select **HTTP API > Services**.
- Configure the **Camera API** as follows:

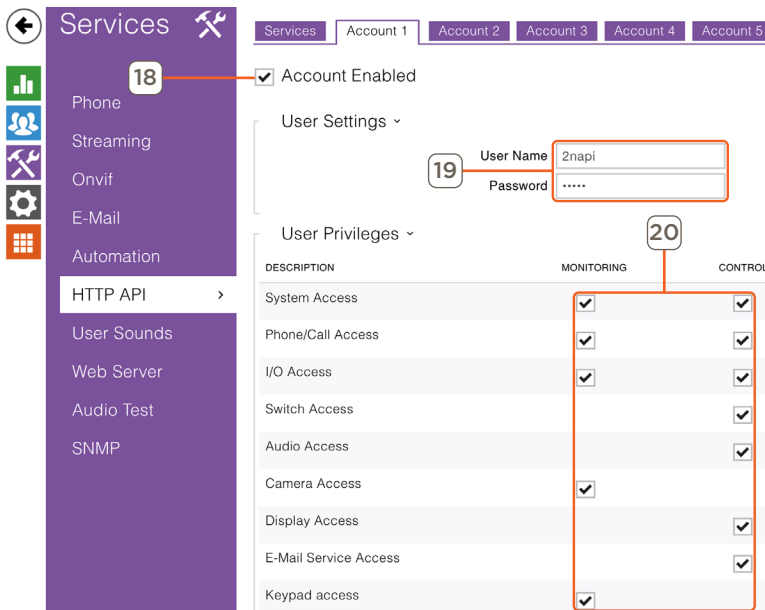


<b>Enabled</b>	Checked
<b>Connection Type</b>	Unsecure (TCP)
<b>Authentication</b>	Basic

- Click **Save**.

15. Select **HTTP API > Account 1**.

16. Check **Account Enabled**.



17. Create a username and password.

**IMPORTANT NOTES:**

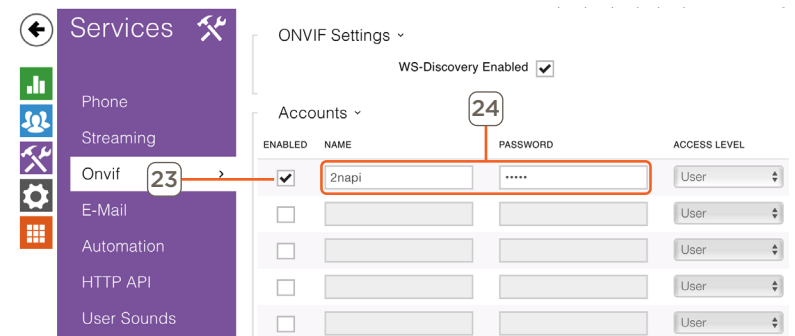
- Password cannot contain spaces.
- These credentials are different than the credentials used to log into the webUI. Note them down for later use.

18. **Enable** all User Privileges.

19. Click **Save**.

20. Select **Onvif**.

21. **Enable** the first Account.



22. Enter the username and password from step 18.

23. Click **Save**.

## 5.4. Hardware

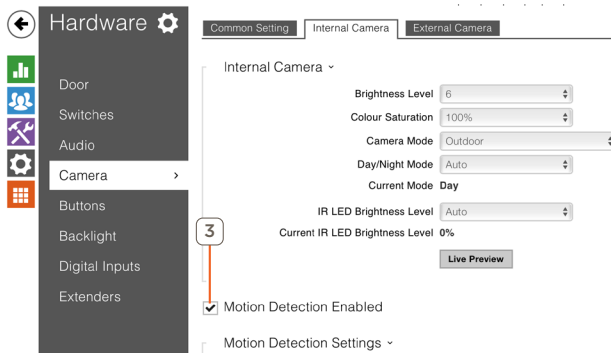
2N door stations must be configured to detect events that will trigger audio and visual recording. Then sensitivity **MUST** adjusted so the Host is not flooded with events as this will degrade system performance. Follow the steps below to enable and configure motion and noise detection:

**⚠ IMPORTANT!** Do not enable motion and noise detection until the unit has been installed.

1. Select **Hardware**.

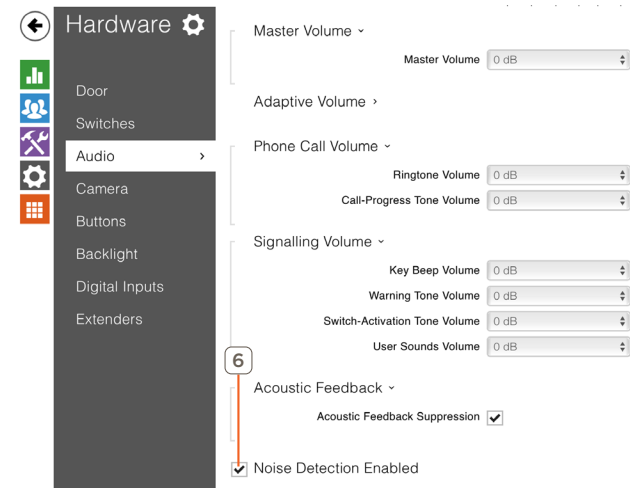


2. Select **Camera > Internal Camera**.
3. Check **Motion Detection Enabled**. Make any adjustments to sensitivity settings.

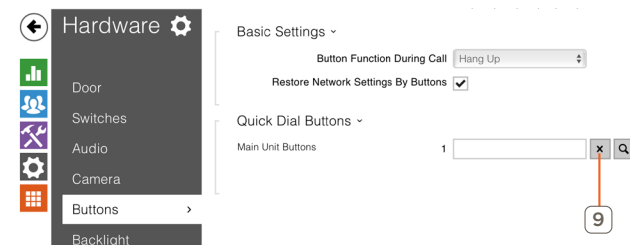


4. Click **Save**.

5. Select **Audio**.
6. Check **Noise Detection Enabled**. Make any necessary adjustments to sensitivity settings



7. Click **Save**.
8. Select **Buttons**.
9. Disable **Quick Dial Buttons** by clicking the x.



10. Click **Save**.

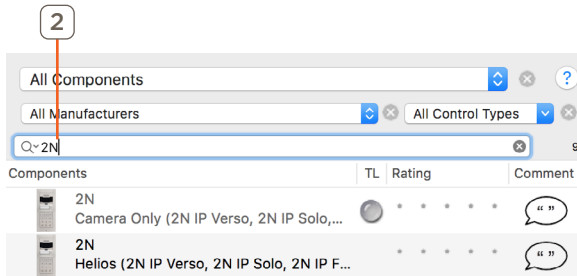


## 6. Blueprint Configuration

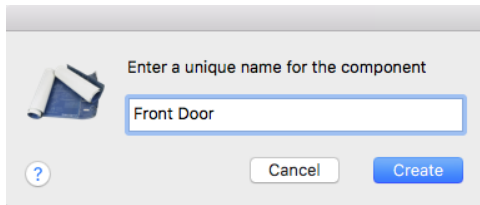
To integrate a 2N door station to a Savant system, a blueprint configuration must be configured and uploaded to the host.

In an open Blueprint configuration, do the following:

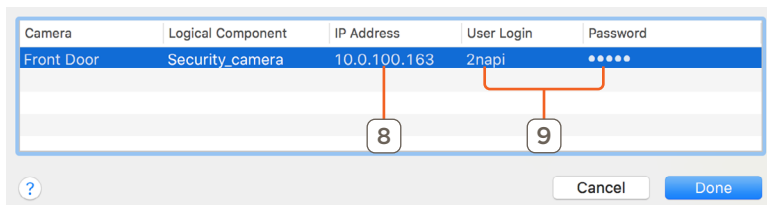
1. Click **Show Library**.
2. In the Search bar type **2N**.



3. Select the **2N Helios Door Station** and drag it into the Layout frame.
4. Enter a unique component name, then choose a zone to place the door station in.

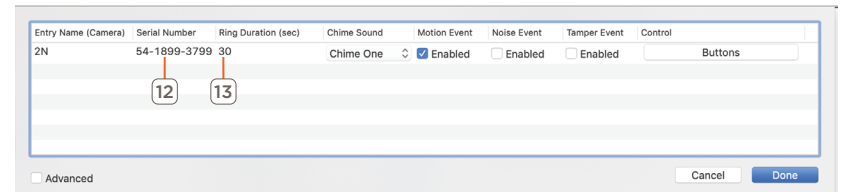


5. Select the door station and make the Ethernet control connection.
- ⚠ **IMPORTANT!** When prompted, **do NOT** enter an IP address. Click **Ok**.
6. Generate Services.
7. Go to **Tools > Settings > Security Camera...**
8. Enter the **IP Address** of the 2N Door Station.



9. Enter the **User Login** and **Password** configured in [section 5.3, step 17](#).

10. Click **Done**.
11. Navigate to **Tools > Settings > Entry...**
12. Enter the **Serial Number** of the door station.

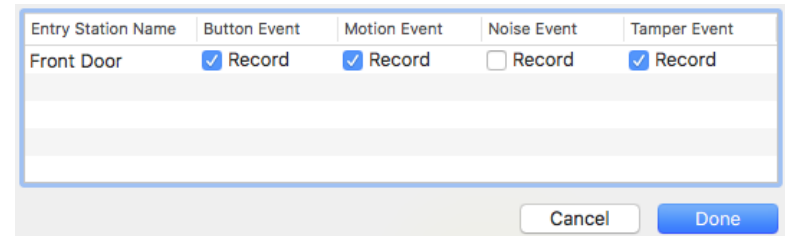


13. Set the **Ring Duration**.
- NOTE:** Minimum duration is 30 seconds, the maximum is one minute.

### **i** HELPFUL INFO:

In the Entry data table, the **Advanced** check box allows a My2N security code to be entered for intercoms not purchased through Savant. This is found on the “Register your Intercom” paper that is included in the door station package.

14. Click **Done**.
15. Go to **Tools > Settings > Entry Event Recording...**
16. Enable the type of events to trigger visual and audio recording.



- NOTE:** These events must also be enabled in [section 5.4](#).
17. Click **Done**.

## 6.1. Entry Service Screen Buttons

Custom buttons can be added to the Entry Service Screen in the Savant Pro App. This section describes how to create a button that open or close a 2N Door Station Switch via a press of a custom Entry Service Screen button.

In an open Blueprint configuration do the following:

Create a workflow. For more information on custom workflows see [Custom Workflow Development: RacePoint Blueprint Programming Guide](#) on the [Savant Customer Community](#).

Drag an action to the Action Pane with the following:

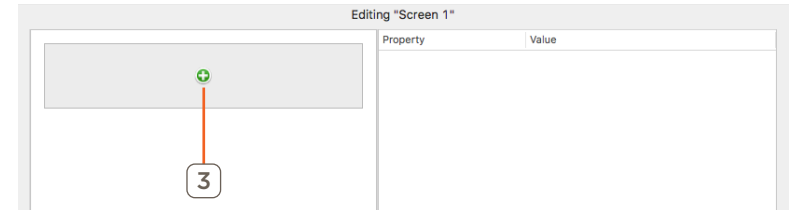
Name	Value
switchID	1

<b>Function</b>	Security_Camera
<b>Resource</b>	Entry
<b>Action</b>	<b>switchControlOn:</b> Open switch. <b>switchControlOff:</b> Close switch.
<b>switchID</b>	Switch Number.

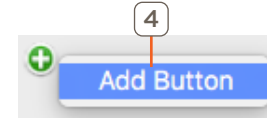
1. Navigate to **Tools > Settings > Entry...**
2. Click **Buttons**.

Entry Name (C...	Serial Number	Ring Duration (seconds)	Motion Event	Noise Event	Tamper Event	Control
Front Door	54-1000-0000	60	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	Buttons

3. Click the + icon.



4. Select **Add Button**.



5. Select the button created.

6. Enter the button label.
7. Select the **Zone** and **Service** the workflow is located in.
8. Set the **Press Command**.
9. Click **Apply**.

**NOTE:** A maximum of 4 custom buttons can be added to this screen..

## Button Properties

Property	Value	Title	Description
<b>Button</b>		<b>Title</b>	Button label.
Title:	New Button	<b>Toggle Title</b>	Button label when toggle state is active (toggled on.)
Toggle Title:		<b>Zone</b>	Zone where the device being controlled is located.
Zone:	N/A	<b>Service</b>	Service controlled using the button. The Zone field determines which services are available in this field.
Service:	N/A	<b>Press Command</b>	Command sent when button is pressed.
<b>Commands</b>		<b>Hold Command</b>	Command sent when button is pressed and held for a duration equal to or greater than the Minimum Hold Time.
Press Command:	N/A	<b>Release Command</b>	Command sent when button is released.
Hold Command:	N/A	<b>Toggle Press Command</b>	Command sent when 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.
Release Command:	N/A	<b>Toggle Hold Command</b>	Command sent when button is pressed while the toggle state is active (toggled on) and held for the time greater than or equal to the Minimum Hold Time.
Toggle Press Command:	N/A	<b>Toggle Release Command</b>	Command sent when button is released while the toggle state is active (toggled on.)
Toggle Hold Command:	N/A	<b>Minimum Hold Time</b>	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.
Toggle Release Command:	N/A		
<b>Hold</b>			
Minimum Hold Time:	0.5		
Hold Send Interval:	0.5		
Send Release After Hold:	<input type="checkbox"/>		
<b>State</b>			
Toggle State:			
<b>Hold Send Interval</b>			Amount of time (in seconds) the button must be held for the command to be sent again if held past the Minimum Hold Time. The command will be repeated at the time interval for as long as the button is held.
<b>Send Release After Hold</b>			<b>Checked:</b> 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. <b>Unchecked:</b> Command set in the Release or Toggle Release Command field is NOT sent after each Hold or Toggle Hold Command.
<b>Toggle State</b>			A boolean state that the system will track the to determine if the Command or Toggle Command is sent.
<b>Follow Inverse of State</b>			Inverts when the button will use the Command and the Toggle Command.

## 6.2. Audio Interrupt Service (AIS)

This section shows a basic example of using the **EntryRing** state from a 2N Door Station to trigger an 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. Click the plus sign to create a new trigger. The image below shows an example:




The screenshot displays the 'Triggers' configuration window. At the top, a list of triggers includes 'Doorbell' which is checked and highlighted. Below this, the configuration for the selected trigger is shown. It starts with the rule 'When any of these states change value, evaluate the Rules', where 'EntryRing' is listed under 'State Name' with 'Front Door.Security\_camera' as the 'State Scope'. This is followed by the 'Match the following rule' section, which contains an 'if (rules)' block. In this block, 'EntryRing' is again listed as the 'State Name' with 'Front Door.Security\_camera' as the 'State Scope', and the 'Test Condition' is set to 'is true'. The 'Run the following actions:' section is set to 'Once', and the 'then' block contains an 'AutoStartAIS' action with 'Living Room-Dersden Residence-RacePointMe...' as the 'Request/State/Scene'. An 'else' block is present but empty, with a prompt to 'Drag a state or request here for a "else" action'. At the bottom, there are buttons for 'Export Selection...', 'Import...', 'Cancel', and 'Save', along with a 'Programming View' checkbox.

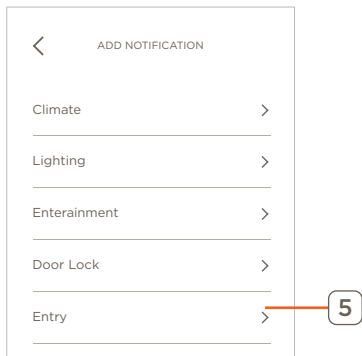
(A)	When Any Of These States Change Value...	EntryRing
(B)	If (Rules)	EntryRing is True
(C)	Then	AutoStartAIS

## 7. Remote Calling

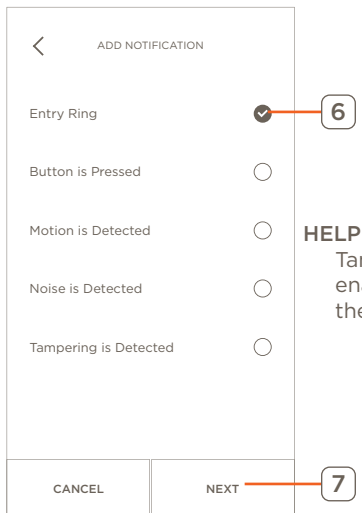
In order for the user to receive calls remotely or when the app is closed, a notification must be created for each user that wishes to be notified. In this example, a notification will be sent whenever a call is made from the door station.

**⚠ IMPORTANT!** The 2N door station **MUST be completely removed from all my2n.com accounts** in order for remote calling to work.

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**.



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

7. Tap **Next**.

8. Configure the **Edit Notification** screen as follows:



Where	Anywhere
When	Anytime
Send	Notification

9. Tap **Done**.

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

## 8. System Monitor

For troubleshooting and informational purposes, the 2N tab of System Monitor can be used.

The screenshot displays the System Monitor interface. On the left, the 'Entry Devices' section shows a 'Front Door' device with a '2N IP Solo' model and a 'Connected' status. Below this is a table of 'Extensions' with columns for 'Extensions' and 'Device'. The table lists five entries: 9159173642 (None), 9159171426 (None), 9159173201 (None), 9159173502 (Android Control App), and 9159170575 (Work iPad). On the right, the 'Device Status' section provides detailed information for the selected device, including its model (2N IP Solo), IP address (10.0.100.163), serial number (54-1000-0000), firmware version (2.24.0.33.7), and various operational states like 'Device On Call: None', 'Entry Ring State: 0', and 'SIP Extension: 9159175184'. It also lists event logs such as 'Last Event Detected: Motion Event Detected' and 'Recording Timestamp: 09/27/2018 15:43 UTC'.

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

---

### Entry Devices

List of intercoms in the configuration.  
**NOTE:** This list only populates with entries 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** for more information.

---

## Device Status

### 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

<b>Model:</b>	Name of the door station model selected.
<b>IP:</b>	IP Address of the intercom selected. Clicking on the IP Address will open a web browser to the configuration page.
<b>Serial Number:</b>	Serial Number of the door station selected.
<b>Firmware Version:</b>	Active firmware version.
<b>Device On Call:</b>	Displays if the door station has an active call.
<b>Entry Ring State:</b>	Current EntryRing state. <b>1 (True):</b> Door station is ringing. <b>0 (False):</b> Door station is not ringing.
<b>Entry Ring Timestamp:</b>	Time stamp of the last EntryRing state change.
<b>SIP Extension:</b>	SIP extension of the intercom.
<b>Last Event Detected:</b>	Displays the type of event last recorded.
<b>Recording Timestamp:</b>	Time stamp of the last recording event.
<b>Recording Error:</b>	Displays if there has been a recording error.
<b>Recording Error Code:</b>	Error code of the last recording error.
<b>Event Log Subscription ID:</b>	Unique ID of the process that is fetching logs.
<b>2N Cloud Registration</b>	<b>Registered:</b> the intercom is registered with the 2N cloud. This is required for remote calling to function. <b>Unregistered:</b> The intercom is not registered or cannot communicate with the 2N cloud.
<b>Relay 1:</b>	Current state of Relay 1.
<b>Relay 2:</b>	Current state of Relay 2.
<b>Output 1:</b>	Current state of Output 1.
<b>Output 2:</b>	Current state of Output 2.

## Appendix A: Switch Configuration

A Switch must be configured within the webUI if a 2N door station is used to control a relay or GPIO within the Savant configuration. This example uses the output of the door station to supply voltage to a 3rd party door lock.

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](#).

### Configure Switch

In a web browser, log into the door station to be configured.

1. Select **Hardware**

The screenshot shows the main dashboard of the webUI. The 'Hardware' tile is highlighted with a red box and a circled '1'. The dashboard is divided into 'Device Status' and 'Device Configuration' sections. 'Device Status' includes 'Status' (with serial number, firmware, and SIP info), '2N' logo, and 'System' (with DHCP, TLS, MD5). 'Device Configuration' includes 'Directory' (1 user), 'Services' (phone, email, ONVIF), 'Camera' (internal camera), 'Audio', 'Streaming', and 'Automation'.

2. Navigate to **Switches > Switch 1**.

3. Check **Switch Enabled**.

The screenshot shows the configuration page for 'Switch 1'. The 'Switch Enabled' checkbox is checked and circled with a '3'. The 'Switch-On Duration' is set to '20' seconds and circled with a '4'. The 'Controlled Output' is set to 'Output 1' and circled with a '5'. A 'Switch Code' of '12345' is entered in the first row and circled with a '6'. The 'Save' button is circled with a '7'. The page has tabs for 'Switch 1', 'Switch 2', 'Switch 3', 'Switch 4', and 'Advanced'.

4. Enter the length of time (in seconds) the switch will remain active.
5. Select **Output 1**.
6. **Optional:** Enter a **Switch Code**. When the code is entered, the door station will activate the programmed switch.

**NOTE:** Profiles allow for user-based access and control limitations. Users can be given unique codes as well as time profiles for restricted Entry access. For more 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

Time (in seconds) before the switch is turned off. Monostable only

### Controlled Output

Relay to be open/closed or voltage to be output when switch is activated.

### Code

Numeric code entered to operate this switch from door station keypad.

**NOTE:** Requires IP Verso with touch display/keypad or IP Force.

For more information on switch features, see the [2N IP Configuration Manual](#).

## Appendix B: Door Lock Service

This section details how to configure a 2N door station . In an open Blueprint configuration:

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

Enabled	Controller	Location	Entity	DoorLockAddress [1]	DoorLockAddress [2]	Label	Status State	Error State	Camera Mapping
<input checked="" type="checkbox"/>	Front Door	Living Room	Lock	1			Front Door.Securi...		Front Door-Secu...

Show Advanced Columns

Enable All   Regenerate All   Savant App Zone Map   Import   Export

Disable All   ?   Cancel   Done

+   2

3. Select the door station as the controller.
4. Select the **location** the Door Lock service will populate in on the Savant Pro App.
5. Select **Entity** type.
6. Enter the Switch address in the **Door Lock Address** field.  
**⚠ IMPORTANT NOTE:** The address **must** match the switch configured in [Appendix A](#).
7. Select the camera to be displayed on the Door Lock Entry screen.  
**Note:** To use a different camera than the internal camera, the 2N door station must be configured. See [Appendix C](#).
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

To use an external camera for the feed shown in the Savant Pro App and TrueControl II for the Entry and Camera service for the door station, the 2N web interface must be configured.

Once connected to the door station via the web interface:

1. Select **Hardware**.

The screenshot shows the 2N web interface with two main sections: Device Status and Device Configuration. The Hardware tile in the Device Configuration section is highlighted with a red box and a circled '1'. The Hardware tile displays 'INTERNAL CAMERA 1 MODULE(S)'. Other tiles include Status, Directory, Services, Streaming, Automation, Camera, Audio, System, and My2N.

2. Navigate to **Camera > External Camera**.

3. Check the **External Camera Enabled** check box.

The screenshot shows the 'External Camera' configuration page. The 'External Camera Enabled' checkbox is checked. The 'RTSP Stream Address' field is filled with 'rtsp://10.0.100.76:554/h264\_stream'. The 'Username' field is filled with 'camera' and the 'Password' field is filled with '.....'. The 'Local RTP Port' is set to 4700. The 'Status' is 'Disconnected'. A 'Save' button is visible at the bottom right.

4. Enter the **RTSP Stream Address** for the external camera.
5. Enter the Username and Password.
6. Click **Save**.
7. Select **Common Setting**.

The screenshot shows the 'Common Setting' configuration page. The 'Default Video Source' dropdown is set to 'External Camera'. The 'PTZ Control Enabled' checkbox is unchecked. A 'Live Preview' button is visible. A 'Save' button is visible at the bottom right.

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

## Appendix D: Static IP Address

Savant recommends using DHCP reservation. If a static IP Address is required, it must be set in the door station web UI.

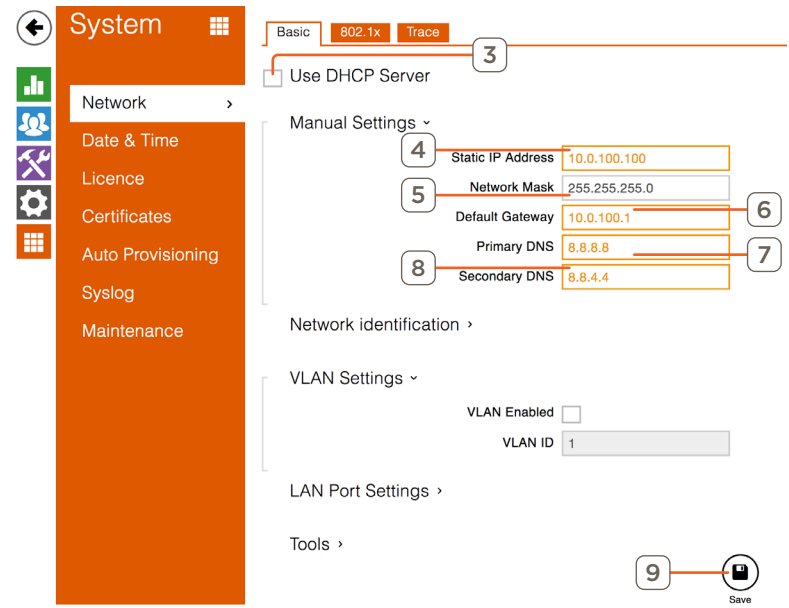
Within the 2N door station web UI, follow the steps below:

1. Select **System**.



2. Navigate to **Network > Basic**.

3. Uncheck **Use DHCP Server**.



4. Enter **Static IP Address**.
5. Change the **Network Mask** if required.
6. Enter the Default Gateway.
7. Enter the primary and secondary DNS.
8. Click **Save**.

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