Replacing standard 6-zone Panel with 12-zone Pro / Wi-Fi to Ethernet

Peter Bransche / February 2025

When started the process of migrating from a traditional commercial security system to Konnected, I was careful to create a detailed map of the physical wiring in my alarm panel. This included photographs and diagrams. I used a tone generator to test and label every wire and sensor. This is integral to the success of the project and will greatly reduce frustration and the chance of errors.

This document is a general outline of the steps I followed to migrate from ADT to Konnected. I started the process with the following information provided to me by Andy Wulff from Konnected help@konnected.io;

Using the Konnected Alarm Panel Conversion with Hubitat

I recently purchase an 18-zone (3 boards) kit. Had to have a long dialog with Konnected to set it up, but once you know the recipe it sets up quickly and easily!

First, update the firmware on each board to ESPHome.

1. Use a PC with drivers for Si Labs CP210x drivers installed
   (You may be able to use a Mac if you install the drivers and use Chrome rather than Safari browser)

2. Connect the Alarm panel to a PC USB port using a Micro USB cable

3. Follow the instructions from this page: install.konnected.io

4. Repeat for each board you have

Next download the Konnected app for your phone.

1. Set up your Konnected account (not sure if absolutely necessary but I did anyway)

2. Select "add new device" from the menu on the left - for the first device you will be prompted on the main screen)

3. Follow the directions which will have you enter your WiFi credentials, then connect to the Board's WiFi before returning to your home WiFi.

4. Your device will now show up under "My Devices"

5. Repeat for any additional boards.

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1. Use Hubitat Package Manager and search for Konnected, then download and install "Alarm Panel (universal)"

2. Go to the Devices section, and select add new device

3. Select "virtual" and scroll through the options to find "Konnected Alarm Panel" for the "Device type" field.

4. Continue adding a name and room as desired.

5. Go to the device details page, scroll down and find the IP address field. Input the board's IP address as shown in the Konnected App.

6. Click on "Save Preferences" and then click on the initialize button at the top. You

should see the network status in the upper right change to online.

7. Go back to the device list and you should now see a dropdown for each board showing 6 zones, siren (OUT) and a restart button.

Now set up your zones through the Konnected App
(Not sure, haven't done mine yet, but you may be able to do it on the device page for each zone within habitat)

I think the procedure is basically the same for the Pro boards, but I believe they already ship with the ESPHome firmware installed.

Figure 1; Information provided by konnected.io

Using the information provided by Konnected as starting point, here is how I proceeded;

[-] Review physical wiring before upgrading from a 6-one Wi-Fi board to a 12-zone Pro board. One issue I had related to which devices (doors, windows, strobes, etc.) could be attached to each of the 12 zones. The zone types differ from zones 1-5 and 6 thru 12. I needed to adjust my physical wiring to accommodate the available zone types. Figures 2 and 3 show a list of the zone types that are available in the Konnected iPhone app
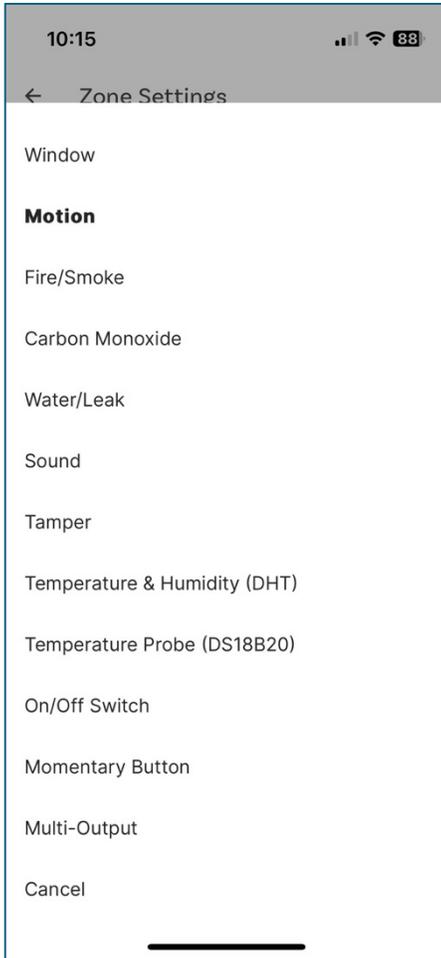
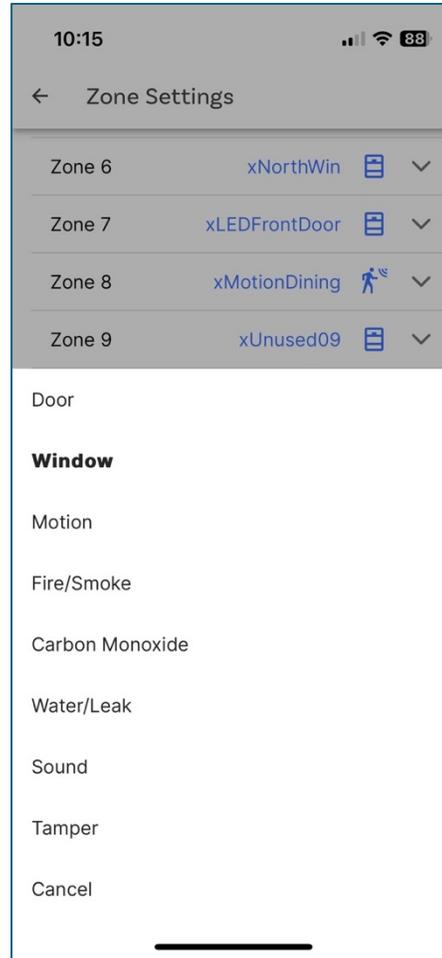Figure 2; Zone Types for 1 thru 6

Figure 3; Zone Types for 6 thru 12

Outline of steps completed on Hubitat:

- Platform Version 2.4.0.151
- Hardware Version C-8
- Connection Ethernet

1. Create a system backup of your Hubitat system.
2. Ensure that your Hubitat system is up to date.
3. Take screenshots of your Hubitat configuration as a reference. I found this to be very useful as I worked to recreate certain aspects of the Hubitat environment after upgrading to Konnected Pro.
4. If your Hubitat was running on Wi-Fi, follow the instructions on the following page to switch Hubitat to Ethernet;

http://docs2.hubitat.com/en/user-interface/settings/networking

Here is a useful site to help you identify your Hubitat device on your network if you get lost;

https://findmyhub.hubitat.com/

[-] You can delete Hubitat Apps, Apps code, Drivers code, and Devices that will no longer be used as shown in the following images. These will all be replaced with the Konnected Pro installation. This can be done before or after your upgrade to Konnected Pro.

Figure 4; Delete obsolete Drivers code.

Figure 5; Delete obsolete Apps code.

Figure 6; Delete obsolete Apps

Tip: When you are removing Apps you may see an alert related to "child devices" as shown in the following image. You should remove all dependent devices as they will be installed with the Pro version of Konnected.
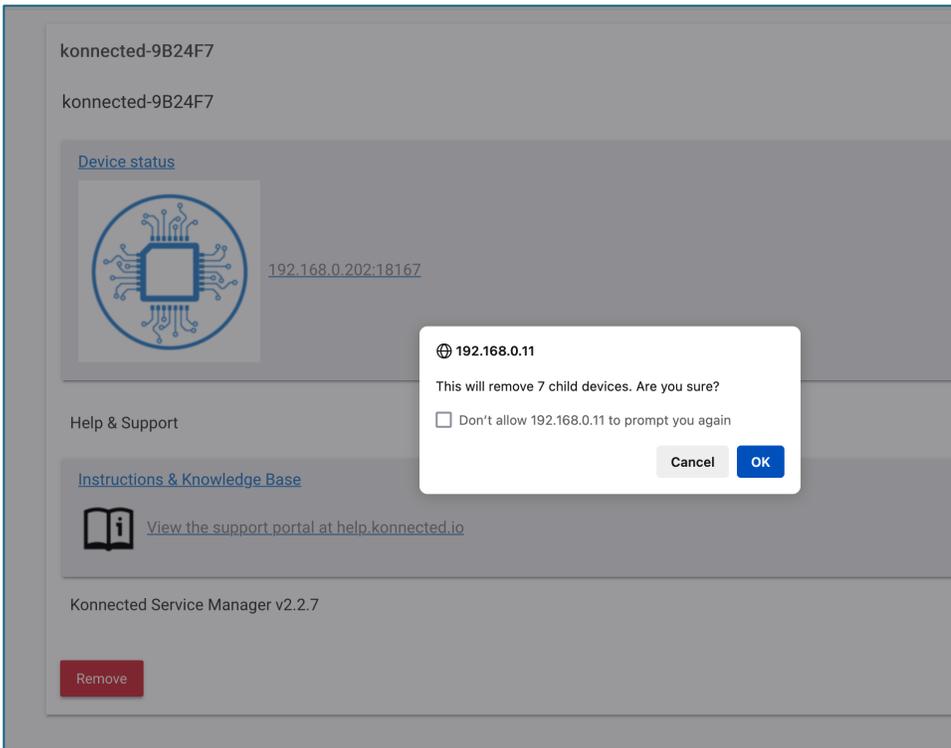
Figure 7; Removing Konnected App child devices.

Connecting the Alarm Panel to Hubitat

[-] My 12-zone Pro board was new from Konnected, so the following statement applied to my installation.

"Konnected's Alarm Panel Pro comes pre-loaded with our newest firmware platform built with ESPHome. This is the preferred firmware for integrating with Hubitat using Konnected's officially supported drivers."

Follow the instructions on the Konnected web site https://support.konnected.io/connecting-the-alarm-panel-to-hubitat to install the Pro bundle. As shown on the konnected.io page. Access the AlarmPanel.zip from this site https://github.com/konnected-io/konnected-hubitat/releases/

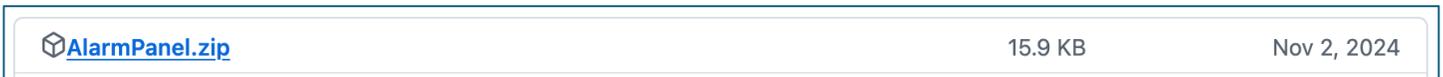|		
📦 **AlarmPanel.zip**	15.9 KB	Nov 2, 2024

Figure 8; Download AlarmPanel.zip.

Once the AlarmPanel.zip has been downloaded follow these instructions from the Konnected website to install the bundle on Hubitat.

2. Install the Bundle in Hubitat

Log in to your Hubitat hub, go to *For Developers > Bundles > Import .ZIP* to upload the bundle. Or, you can copy the link to the bundle ZIP from GitHub and import it into Hubitat without downloading it first.

Figure 9; Instructions from konnected.io to install AlarmPanel.zip on Hubitat.

I tested this process alternative ways to import the .zip file; the process that worked the best for me was to simply access *Hubitat > Bundles > Import ZIP* as shown below.
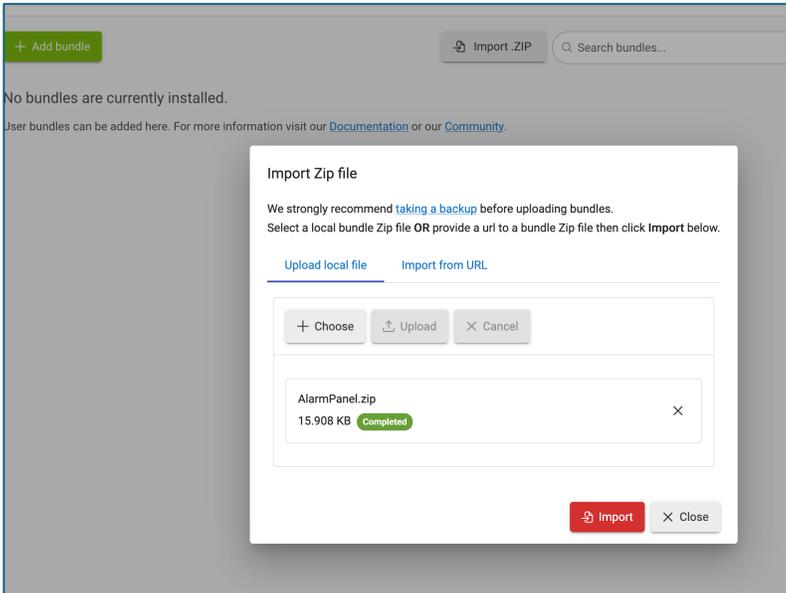

Figure 10; Importing the .zip file from Konnected into Hubitat.

Continue following the steps as outlined on the Konnedted.io website as shown below.

Create a Virtual Device

ESPHome devices are not automatically discovered in Hubitat. To add the device, follow these steps to create a virtual device:

1. In Hubitat, go to *Devices > Add device*. Then choose *Virtual*.

2. In the *Select device type* drop-down, scroll all the way down to the *User* heading and select *Konnected Alarm Panel* and click *Next*

3. Enter a name for the device when prompted.

4. Once the virtual device is created, click *View Device Details* then go to the *Preferences* tab. In the *Device IP Address* field, enter the local IP address of the device and click *Save*. You can find the IP address by discovering the device in the Konnected app, or by finding the network details in your router's admin page/app.

Figure 11; https://support.konnected.io/connecting-the-alarm-panel-to-hubitat.
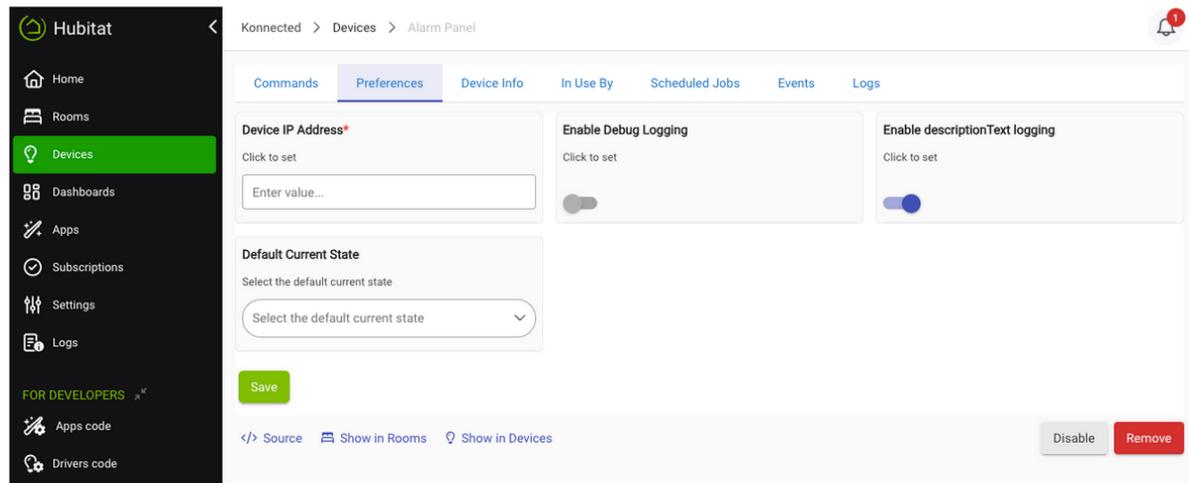
5. After saving the IP address, Hubitat will attempt to connect to the device. You can view the *Logs* tab in case there are any errors connecting, or click the *Initialize* command on the *Commands* tab to make it re-connect.

6. *Child devices* should automatically appear soon after Hubitat connects to the device. The *child devices* are defined by the zones and settings that are configured on the Alarm Panel. You can customize these using the Konnected app.

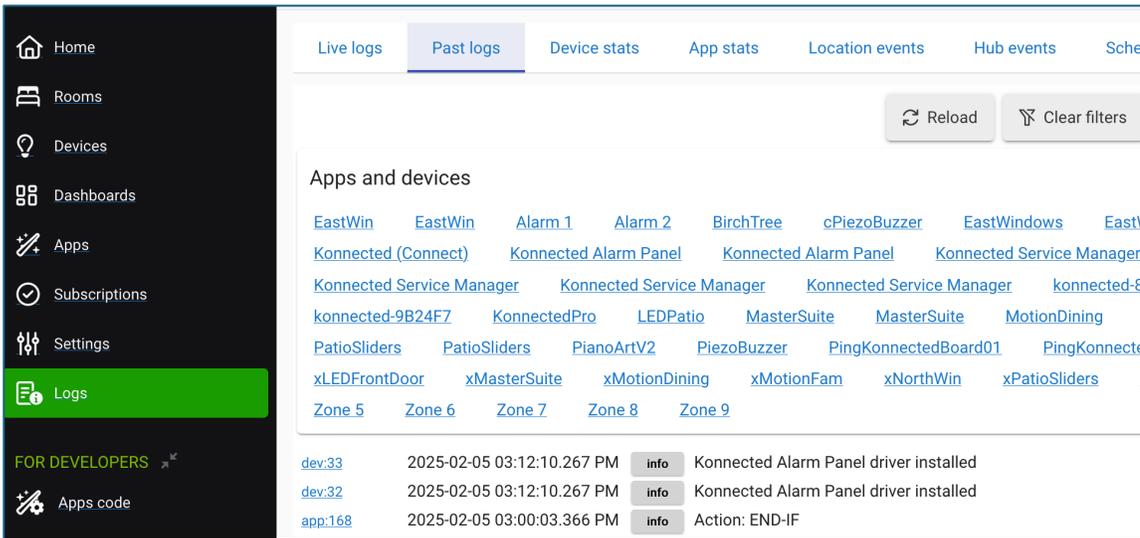It's worth taking a moment to review the Hubitat log files after you create the virtual device;

Figure 12; Hubitat logs.

[-] In the Hubitat interface you must be sure to access BOTH devices you just created and configure their IP address. Both devices must be online before you attempt to install firmware from the Konnected phone app.
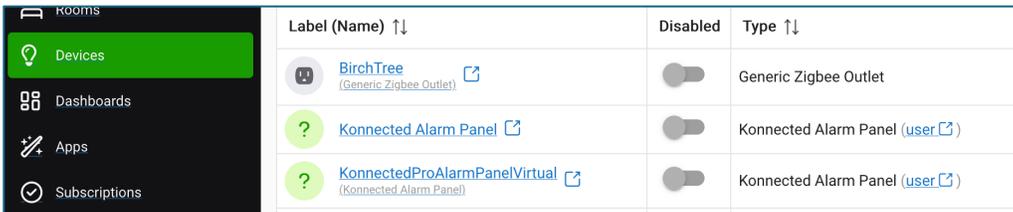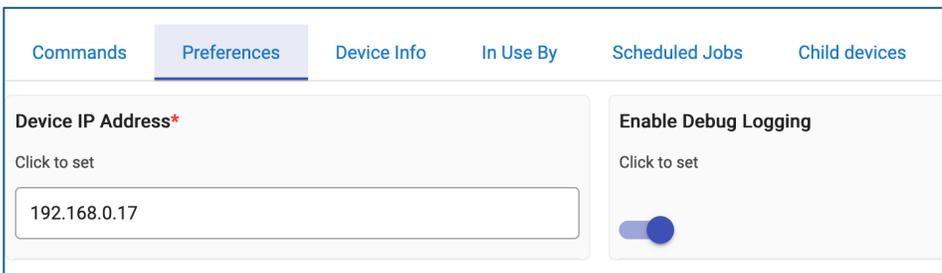

Figure 13; Both devices are displayed.

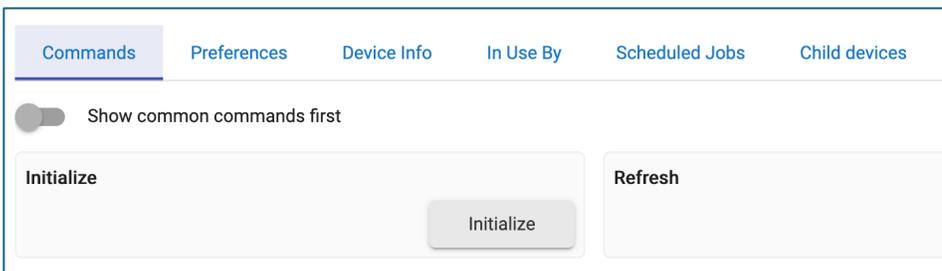*Figure 14; Example of entering IP address.*

Figure 15; Example of initializing the device.

[-] Using the Konnected app on your phone, opens Settings and create your zones. When you are ready click the Build Now button. Here are two screenshots from the process. If you get any errors, I suggest just trying it again.
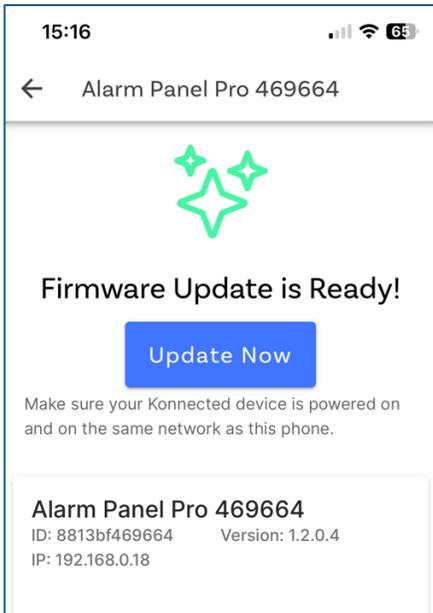

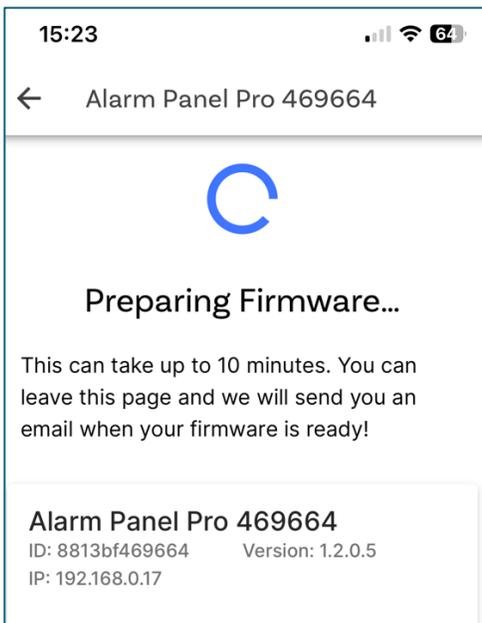*Figure 16; Konnected App screenshot.*

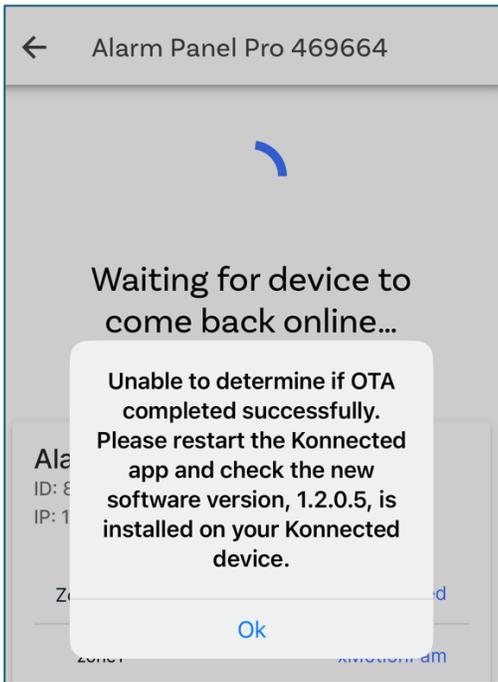*Figure 17; Konnected App screenshot.*

Figure 18; Konnected App error. This may appear if Hub devices are not online.

Note: For my purposes, I did not have to use a USB cable to manually install the customized firmware to my Konnected Pro board. I was able to use the over-the-air process successfully.

Once the firmware has successfully transferred, you are ready to configure Hubitat as needed. I think it is important to point out that the zones you have configured are, by default, collapsed under the Alarm Panel section of Devices. Expand this area to see a list of your zones.
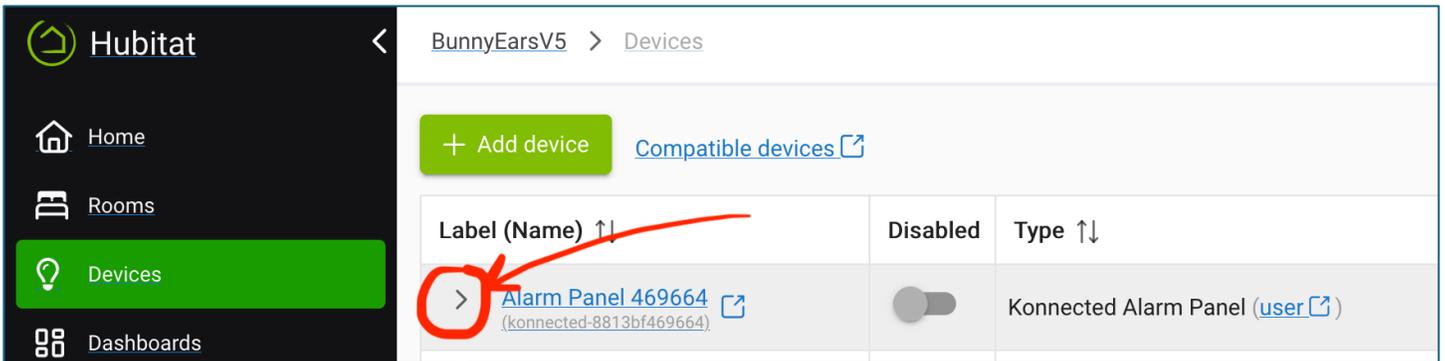

Figure 19; Expand Alarm Panel to revel zones.

I found that the process created duplicate entries in Hubitat>Devices>Alarm Panel that needed to be cleaned up. A trick I used was to label the zones on my iPhone as "1FrontDoor" or "2FrontDoor" as I generated new versions of the firmware. This allowed me to differentiate new and old configurations as I moved forward.

Test, test, test.

I hope you found something in this document that made the process for you a bit easier ☺