



Instalation Guide

What is included:



Vayyar Home Device



USB Wall Charger



Adapter (as needed)

What you need:



Strong WiFi



Tape Measure



**Bluetooth enabled
Smartphone**



**Computer with
Google Chrome
(optional)**

Instalation

LED



Push Button



Vayyar Home: terms and Lingo

- ▶ **Device ID:** The primary way we identify devices. Each number starts with "id_...." followed by a long string of numbers and letters.
- ▶ **App:** The application you download to your phone, Vayyar Home
 - ▶ Can be downloaded from **Google Play** and the **Apple App Store**.
- ▶ **App Pairing:** Syncing the device to the caregiver's phone.
- ▶ **Adhesive Strips:** The special pieces of tape that stick the device to the wall.
- ▶ **Dimensions:** The length and width of the room, the distances between furniture, and the distances relative to the device.
- ▶ **Configuration:** The values taken from the dimensions that are entered into the device's system as well as activating other device functions.
- ▶ **Mounting:** Attaching the device to the wall.
- ▶ **Subregion:** A region that you can choose to have fall detection or not, as well as choose to have presence detection or not.
- ▶ **Fall Confirmed:** When a device has detected a fall and has sent a notification to the dashboard.



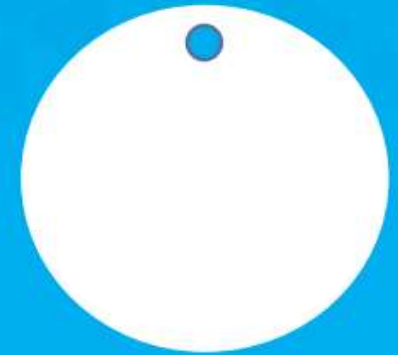
Part 1: Device Installation



Mounting the Device



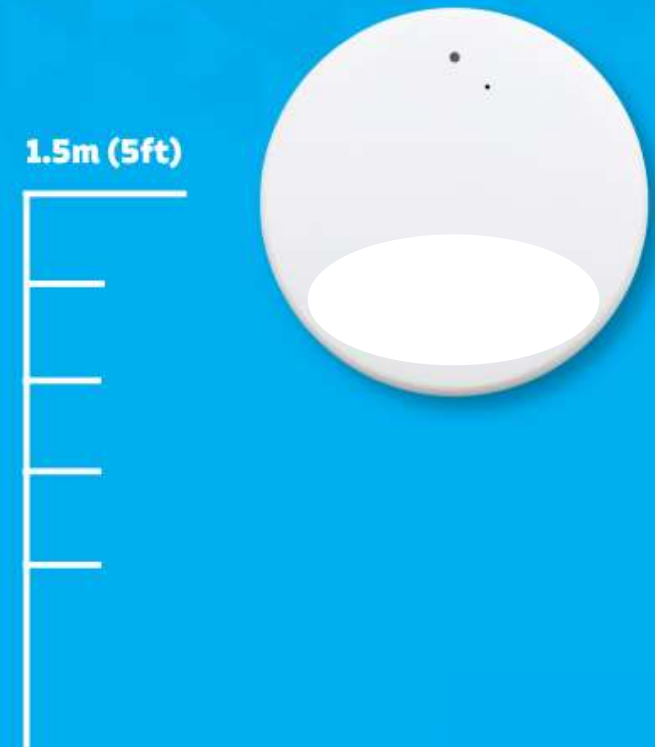
Logging in to your Account



Pairing Your Device

Mounting the Device on the Wall

- ▶ Mount the device on the required wall using the adhesive strips in the kit.
- ▶ It is required to install the devices at a height of 1.5m (5ft) from the floor to the center of the device.
- ▶ The maximum room size is 4m x 4m (13ft 1in x 13ft 1in).
 - ▶ Maximum of 4m (13ft 1in) in length.
 - ▶ Maximum of 2m (6ft 7in) to either side.
- ▶ Devices should not be located near any metal devices (TVs, monitoring systems, breathing machines etc.).
- ▶ The device needs to be close to an outlet.
- ▶ The device needs to have a strong WiFi signal.
- ▶ The device needs to have a direct line of sight to all the parts of the room (i.e., not behind a bookcase or around the corner from the room). Devices should not be blocked by doors, walls, shelving.
- ▶ The device needs to be mounted on a wall and not a window, a tv, a piece of furniture, etc.

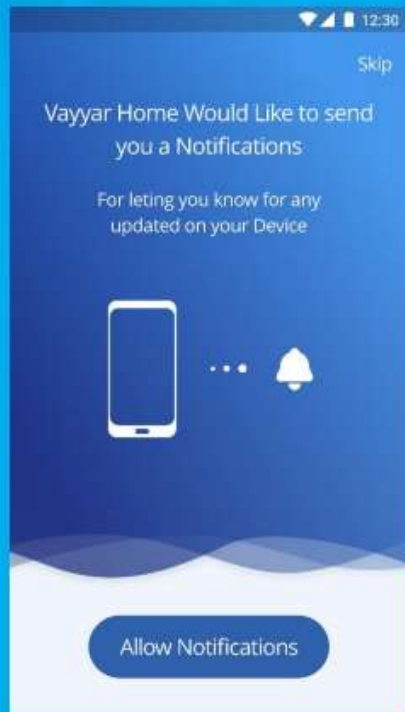


Creating an Account

- ▶ Install the Vayyar Home app on your phone from Google Play Store or the App Store.
- ▶ Open the app and create an account.
 - ▶ It must be a working email account.
- ▶ At this point please connect to the strongest WiFi connection possible with a 2.4GHz bandwidth.



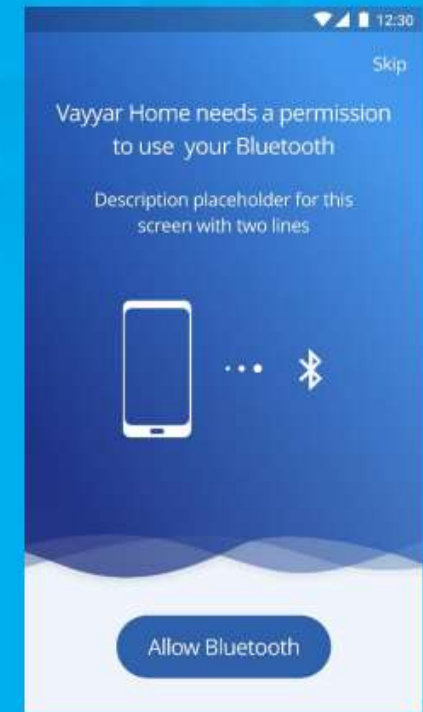
Pairing to your Device



Step1: Allow notifications

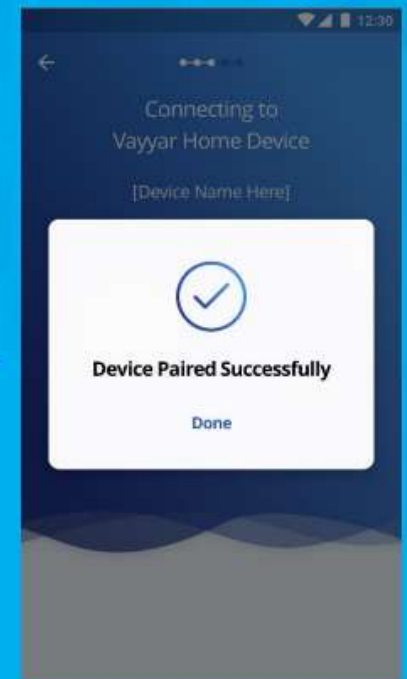
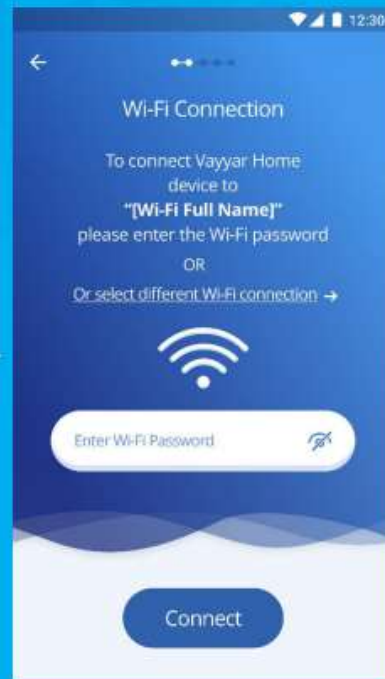


Step2: Allow microphone



Step2: Allow Bluetooth

Pairing to your Device



Step3: Press and hold the push button for 5 seconds. Upon release the LED will flash blue. Click 'Continue'

Step4: Enter in the WiFi password for the channel you are currently using

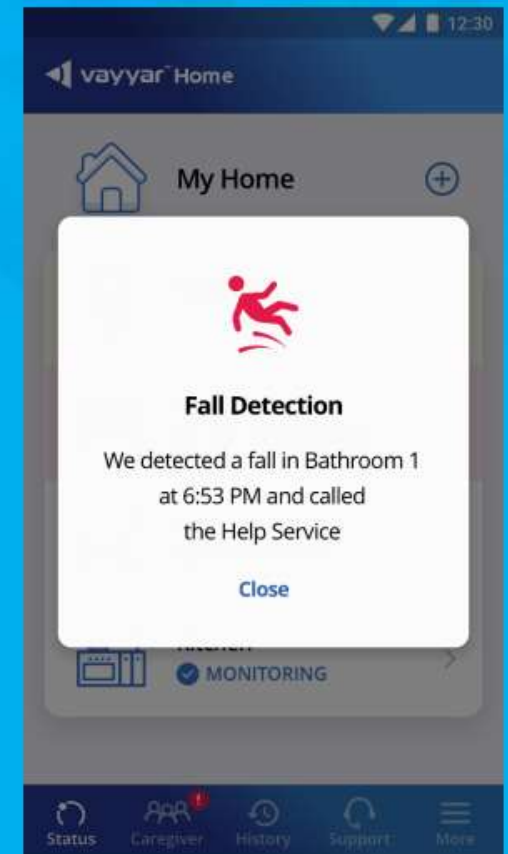
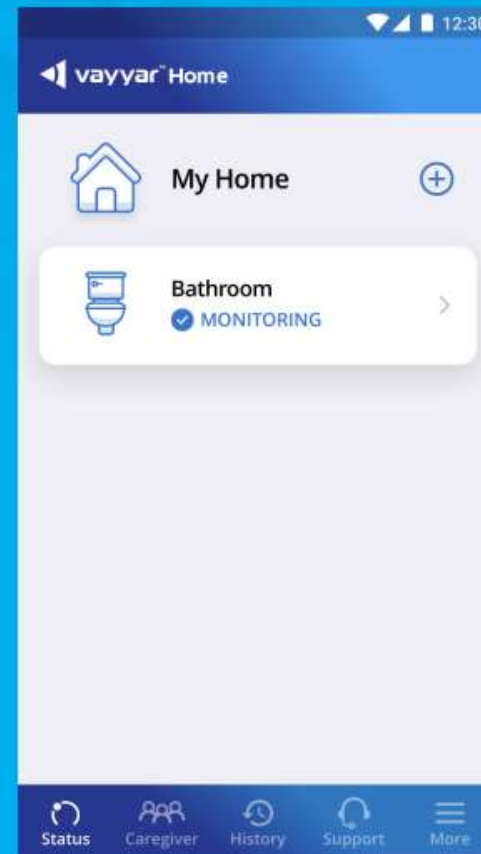
Step5: The Device will now start the pairing process. This may take several minutes.

Step6: You are now paired!

Your Device is Paired

Your device is now paired, and you can begin monitoring. All your devices will be listed on the Status screen, and you will get a notification and an SMS when a fall has occurred.

Note: When the device is first paired, or the app is opened, it may take a few minutes for the status to show monitoring. At first it will show “Not Monitoring.” This is the normal behavior of the device.



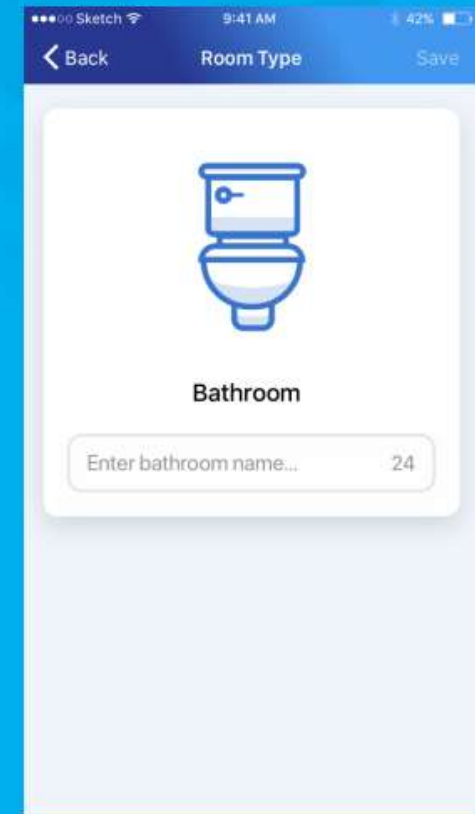
Choosing Device Room Type



Now you will be asked to choose the room type that the device is in



Choose the appropriate room type

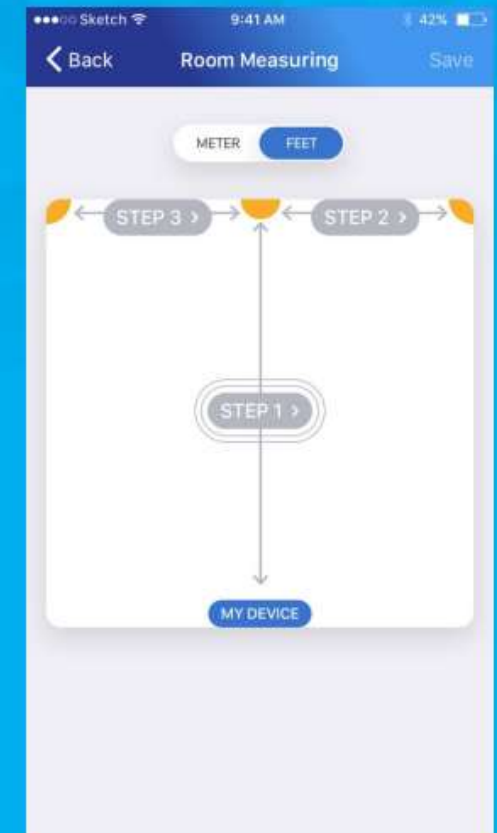


Name the room
For example, Room 101

Calibrating your device

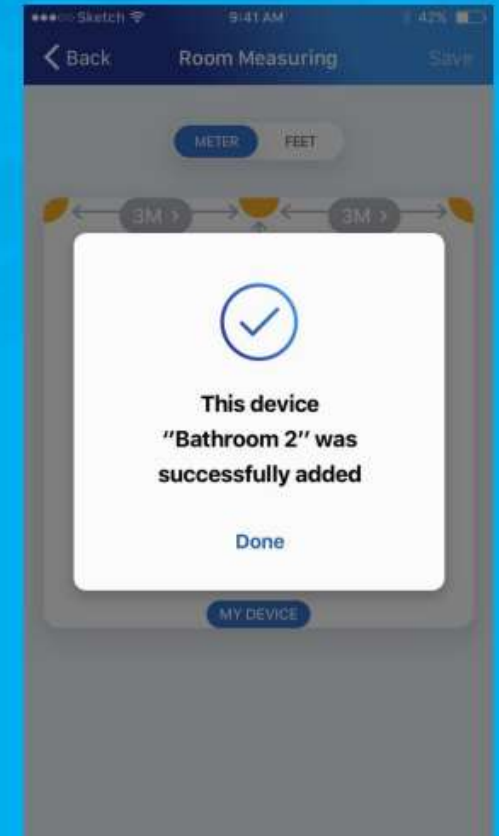
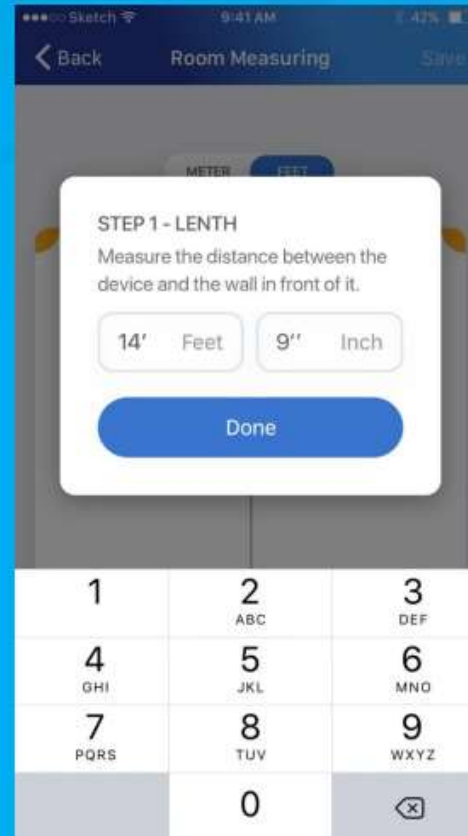
To calibrate your device, first measure the distance from the device to the opposite wall. Then to each of the walls on either side of the device, as shown in the picture to the right. Once you have measured the room, click on the gray bubbles to enter in the room dimensions.

For ceiling mounting, please continue through this process, but there will be no need to enter in room dimensions at this time. Once the mobile app is finished with setup, you can go the dashboard section of the guide and continue there for ceiling mounting configuration.



Calibrating your device

When you click on the grey flashing bubble, a popup will appear that will allow you to enter in the corresponding room dimension. Once finished entering all the room dimensions, click save in the upper right corner of the screen. You can alter these numbers as needed at any time during device use.



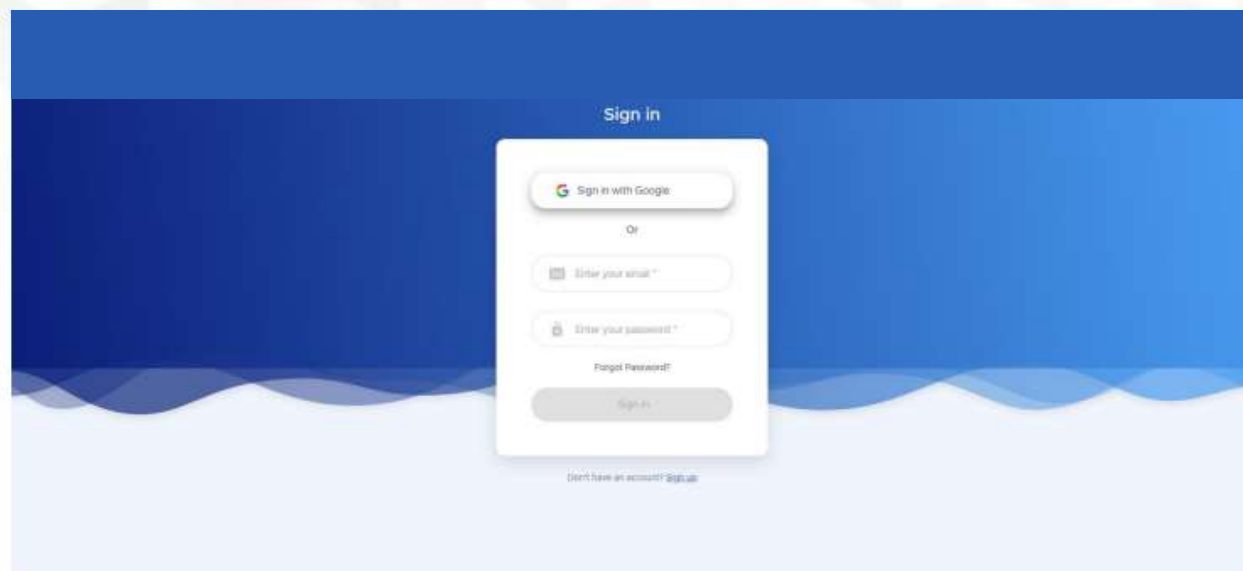
Part 2: Logging in to your **Dashboard Account**

Open the URL walabotdashboard.firebaseio.com in Chrome web browser on your computer and enter your account username and password.

Since you already have an account via the companion app, you do not need to pair the device again to the dashboard, it is already connected to the account.

Going forward, you can add all your devices to this account.

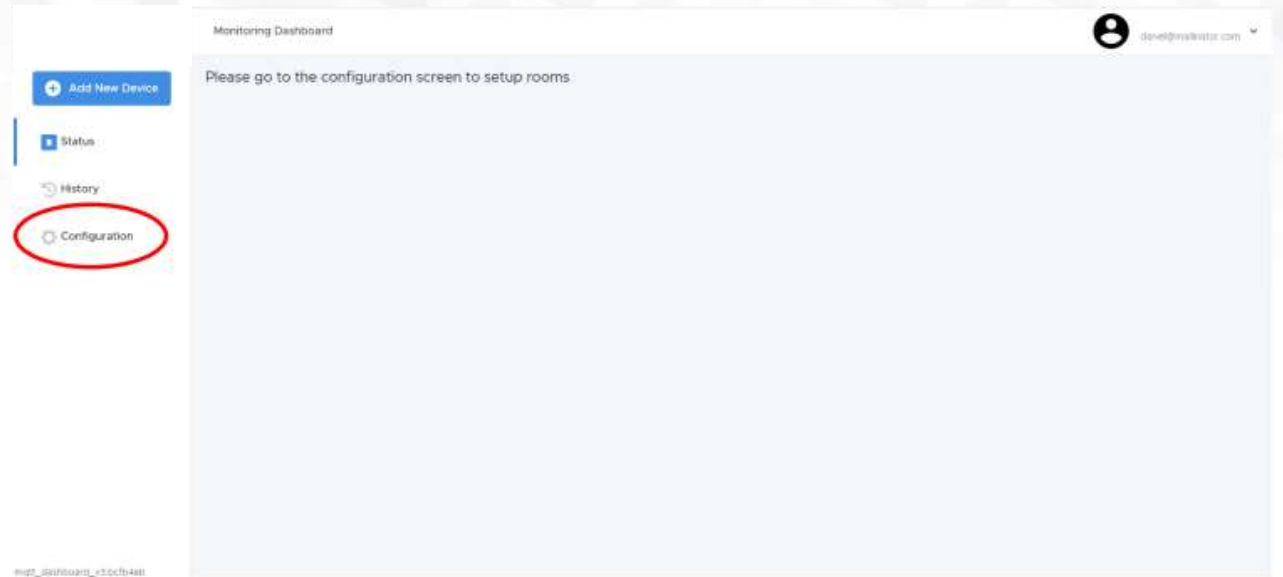
For all devices, use the same account to view them on one dashboard and mobile app.



Device Configuration

When you login to the dashboard you will see the status screen. All your devices will appear here with their current status. The page will initially be empty because the devices still need to have their dimensions entered (or be 'configured'). When setting up your devices for the first time, you will need to manually configure the devices you would like to use.

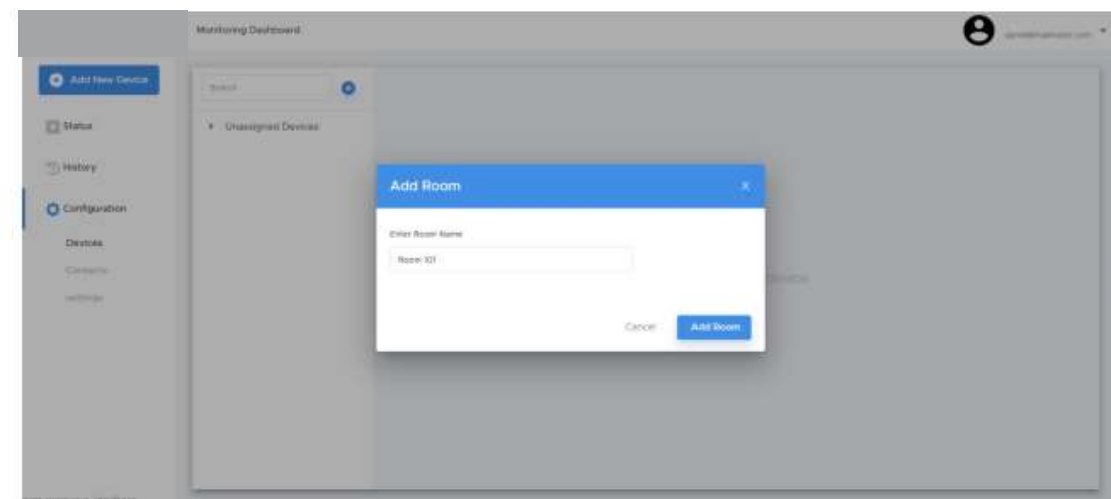
- ▶ Click on **'Configuration'** which appears on the left side menu.
- ▶ There you will see the device IDs of the devices your account is already paired to.



Add room/apartment names to your account

The first step is to add room or apartment names to your account. For example, here you can create and add Room 101, which will have multiple devices that you can add to it later.

- ▶ Click the blue plus sign at top of the screen
- ▶ Enter in the desired room name and click 'Add Room'
- ▶ You will see your new room on the left underneath the 'Unassigned Devices' tab.



Assign Devices to a Room

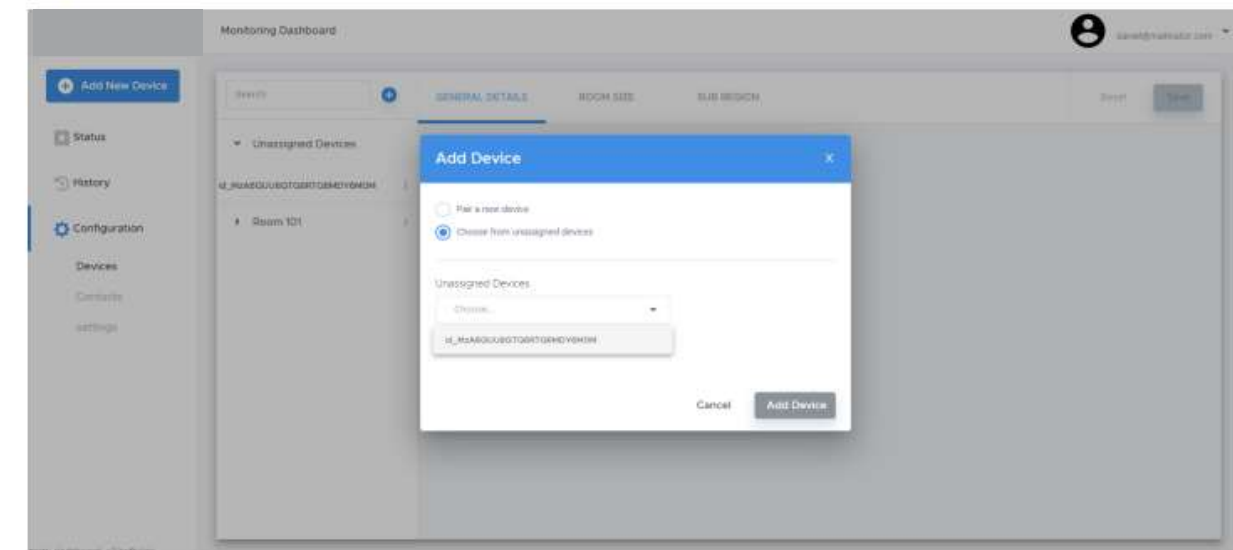
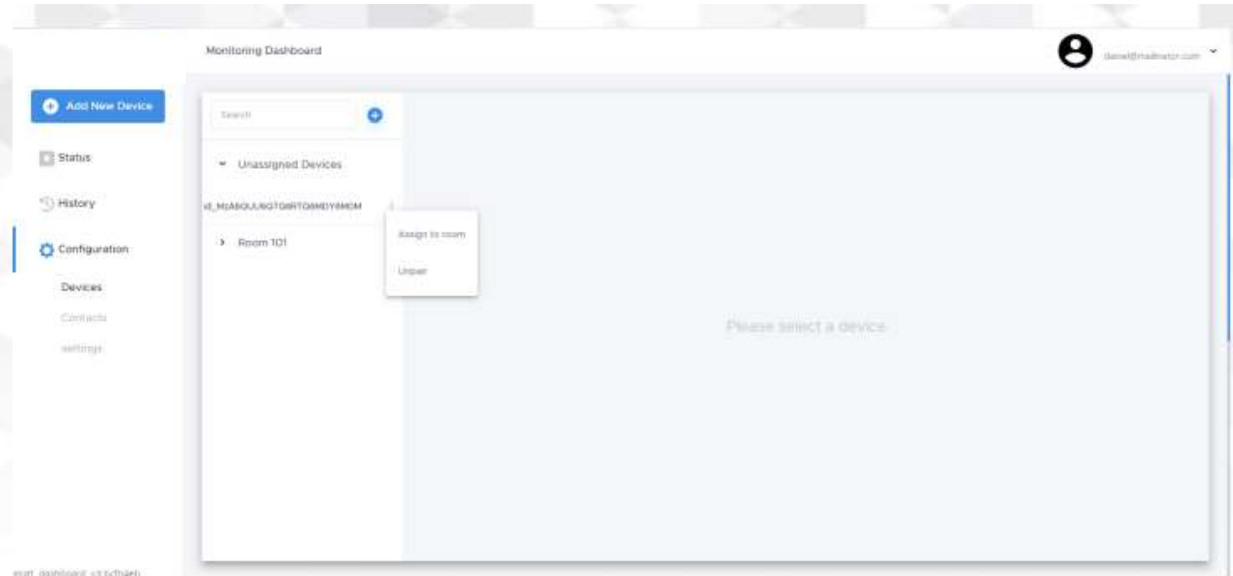
There are two methods to assign a device to the room or apartment that you made in the previous step.

First method:

- ▶ Click the **'Unassigned Devices'** tab .
- ▶ Click on the device you want to assign to a room and click **'Assign to Room'**.
- ▶ Choose the room that you wish to add the device to.
- ▶ The device will now be listed under the selected room.

Second method:

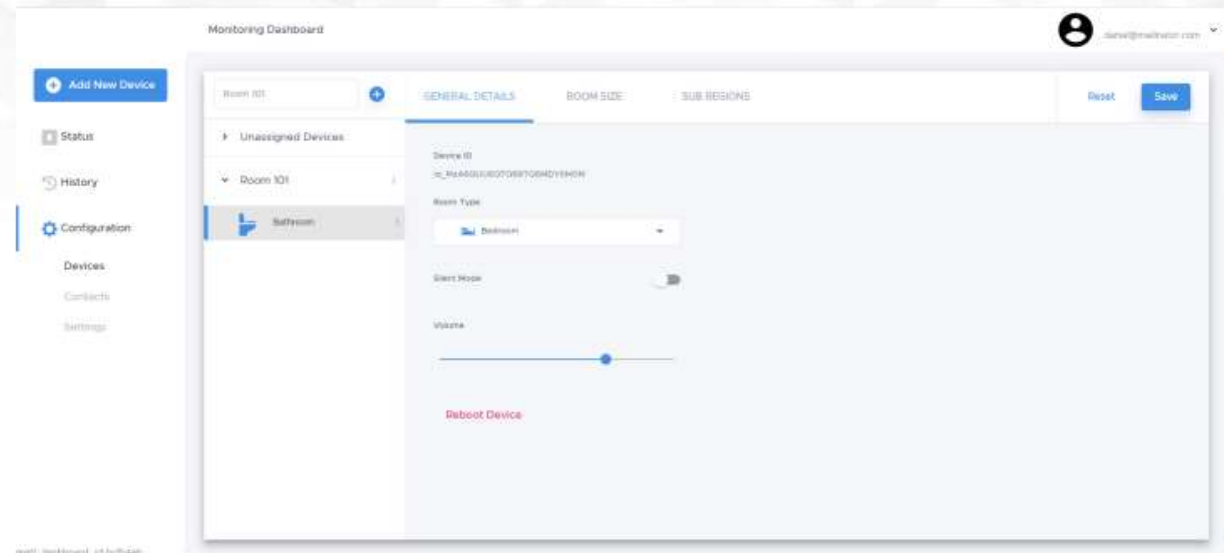
- ▶ Click on the blue plus sign next to the desired room.
- ▶ Choose the option, **'Choose from unassigned devices.'**
- ▶ Choose the device you want to put in by it's device ID and click, **'Add Device.'**



General Details

To configure the different functions of the device, click on the room/apartment and then click on the desired device. This will open up the 'General Details' window. Here you will see the device ID listed at the top of the window. Below that you will find and can change:

- ▶ Room type (bedroom, bathroom, living room, etc)
- ▶ Silent mode (To receive fall notifications to the dashboard or not)
- ▶ Volume
- ▶ Reboot device



The screenshot displays the 'Monitoring Dashboard' interface. On the left, a sidebar menu includes options like 'Add New Device', 'Status', 'History', 'Configuration', 'Devices', 'Contacts', and 'Settings'. The main area shows a list of rooms, with 'Bedroom' selected. The 'GENERAL DETAILS' window is open, displaying the following information:

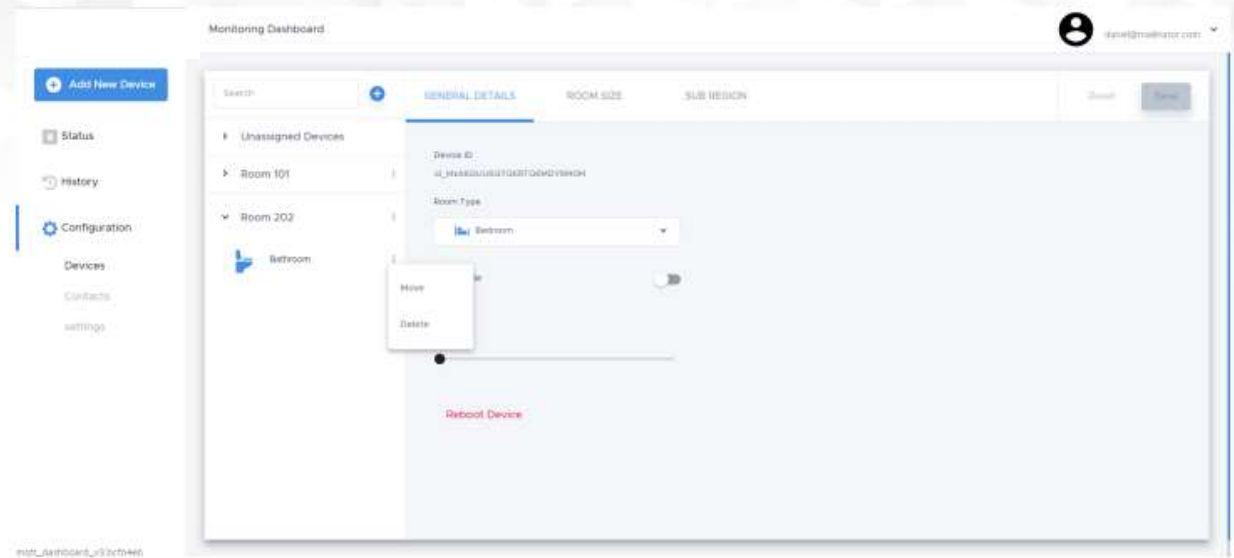
- Room ID: [Dropdown]
- Device ID: 2c_8440146270897084011404
- Room Type: Bedroom (selected from a dropdown)
- Silent Mode: [Toggle switch]
- Volume: [Slider]
- Reboot Device: [Red button]

Buttons for 'Reset' and 'Save' are visible in the top right corner of the configuration window.

Move or Delete devices

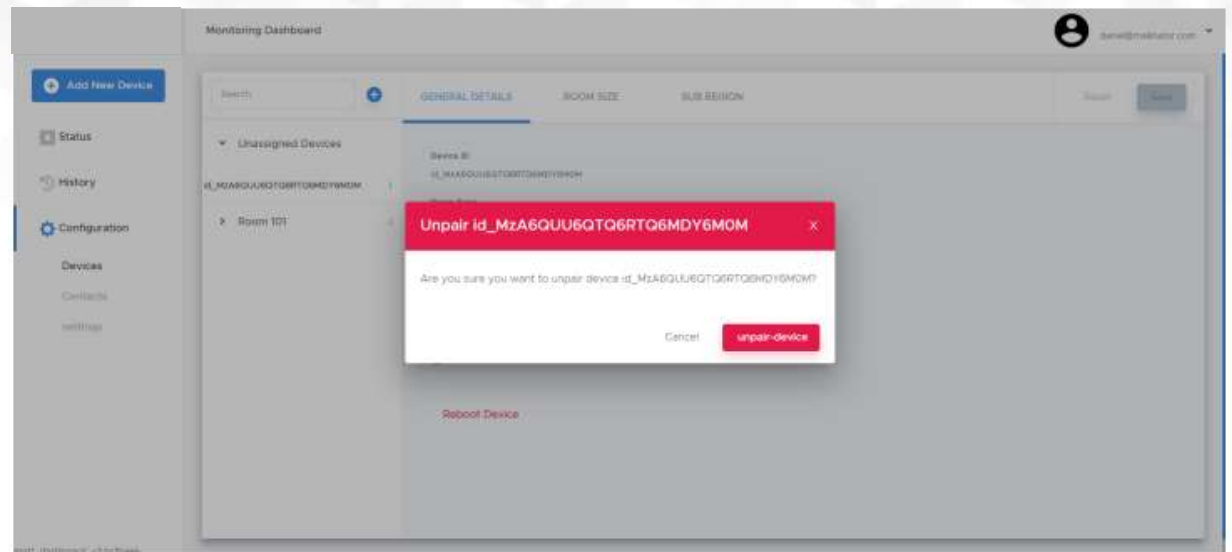
You can **move** a device to another room, which will maintain the device configuration, or you can **delete** the device completely from the assigned rooms and put it into the **'Unassigned Devices'** tab.

Click on the menu option next to the device in an assigned room in order to move or delete the device.



Unpair devices

To unpair a device, which will remove it from both the dashboard and your companion app completely, click on the menu option while the device is in the Unassigned Devices tab. There you can unpair the device or assign it to a room.



Room Size

Go to the tab at the top of the screen labeled 'Room Size' to set the dimensions.

Next you can set the Room Size. This is the maximum area that the device will scan. The device has a maximum range of 2 meters (6ft 6in) to the left and right side from the center of the device, and 4 meters (13ft) length from the device to the opposite wall.

The screenshot displays the 'Monitoring Dashboard' interface. On the left, a sidebar contains navigation options: 'Add New Device', 'Status', 'History', 'Configuration', 'Devices', 'Contacts', and 'Settings'. The main content area is titled 'Room Size' and features three tabs: 'GENERAL DETAILS', 'ROOM SIZE', and 'SUB REGION'. The 'ROOM SIZE' tab is active, showing a configuration table for 'Room 101' with the following values:

Parameter	Value	Unit
Length	3.5	m
Left	2	m
Right	2	m

To the right of the table is an 'EXPLANATION' section with a diagram. The diagram shows a top-down view of a room with a central device (represented by a blue rectangle). A vertical line labeled 'LENGTH' extends from the device to the opposite wall. Two horizontal lines labeled 'LEFT' and 'RIGHT' extend from the device to the left and right walls, respectively. The diagram is accompanied by the following text: 'Make a point on the wall in front of the device, and measure the distance between the device to that point. Then measure the distance between the point to the left side of the room, and the distance to the right side of the room.'

At the bottom left of the dashboard, the text 'not_authenticated' is visible.

Sub Regions

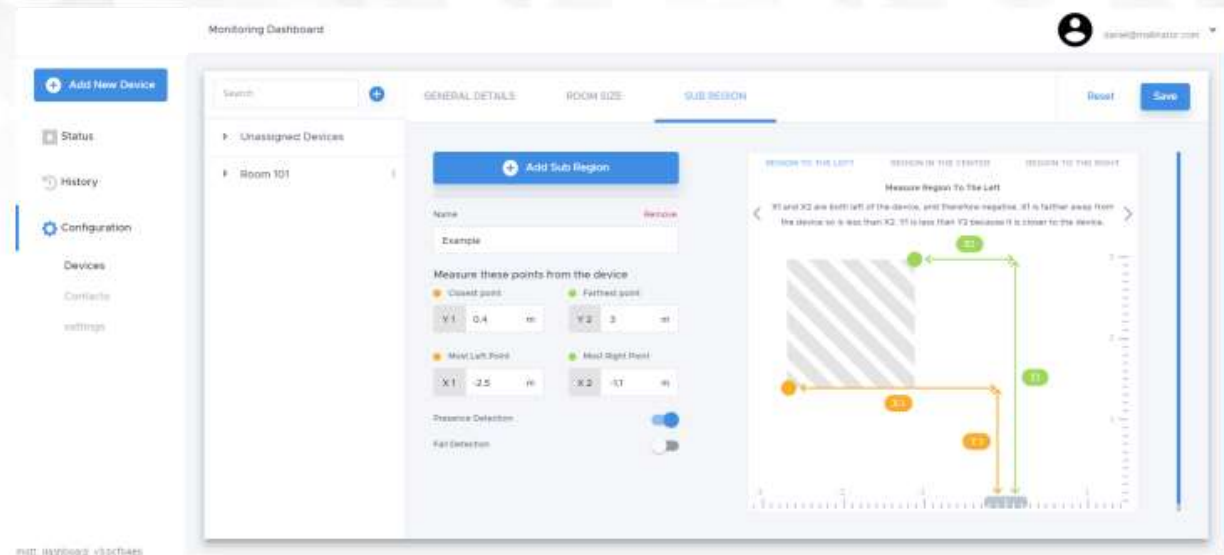
A 'Sub Region' is a region that you can create within a room.

In each region you can choose to activate 'Presence Detection.' Activating presence detection allows you to see when a resident has entered that Sub Region. For example, by putting a Sub Region over the bed and activating presence, you can see when someone goes in and out of bed.

You can also turn off fall detection in a sub region, so you will not receive a notification if a fall occurs in that region. This helps prevent false alarms in certain areas.

Go to the tab at the top of the screen labeled 'Sub Region' to add a Sub Region.

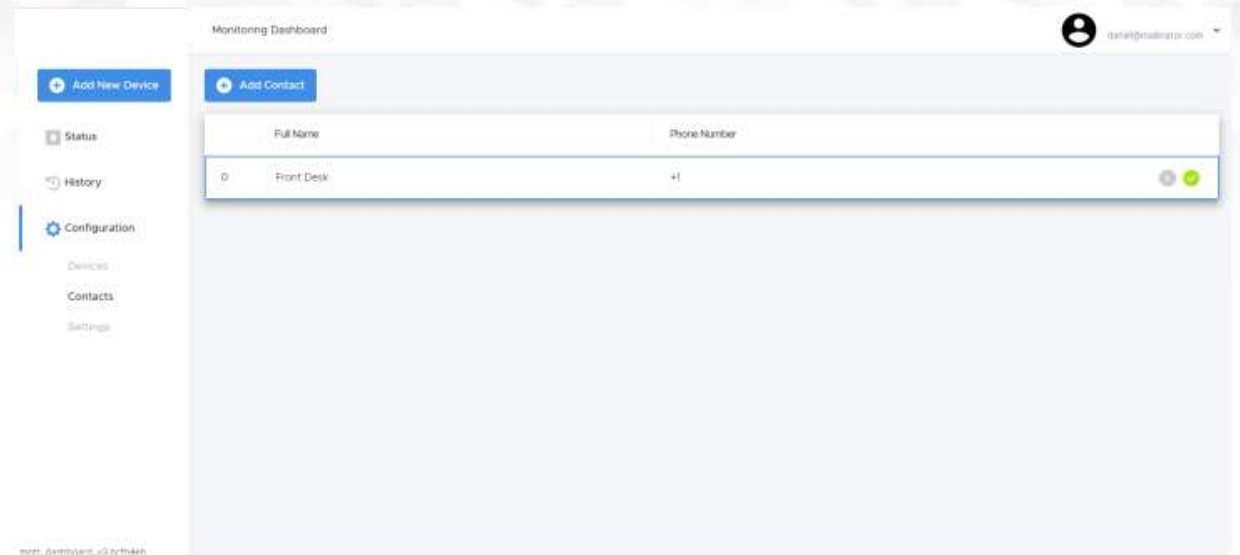
Note: You can only see presence in a Sub Region if the room type is Bedroom. You can create up to two Sub Regions in the bedroom. They need to be the first two regions you create.



Contacts

On the list to the left you will see a tab labeled **'Contacts.'** Here you can add or remove caregiver contact information.



You can change the order of which caregiver is called first by simply dragging and dropping the selected caregivers in the list.



The screenshot displays a web application interface titled "Monitoring Dashboard". In the top right corner, there is a user profile icon and the email address "daniel@realtime.com". The main content area is divided into two sections: a left sidebar and a main table.

The left sidebar contains a vertical list of navigation items: "Add New Device" (with a plus icon), "Add Contact" (with a plus icon), "Status", "History", "Configuration" (with a gear icon), "Devices", "Contacts" (highlighted with a blue bar), and "Settings".

The main table has two columns: "Full Name" and "Phone Number". It contains one row of data:

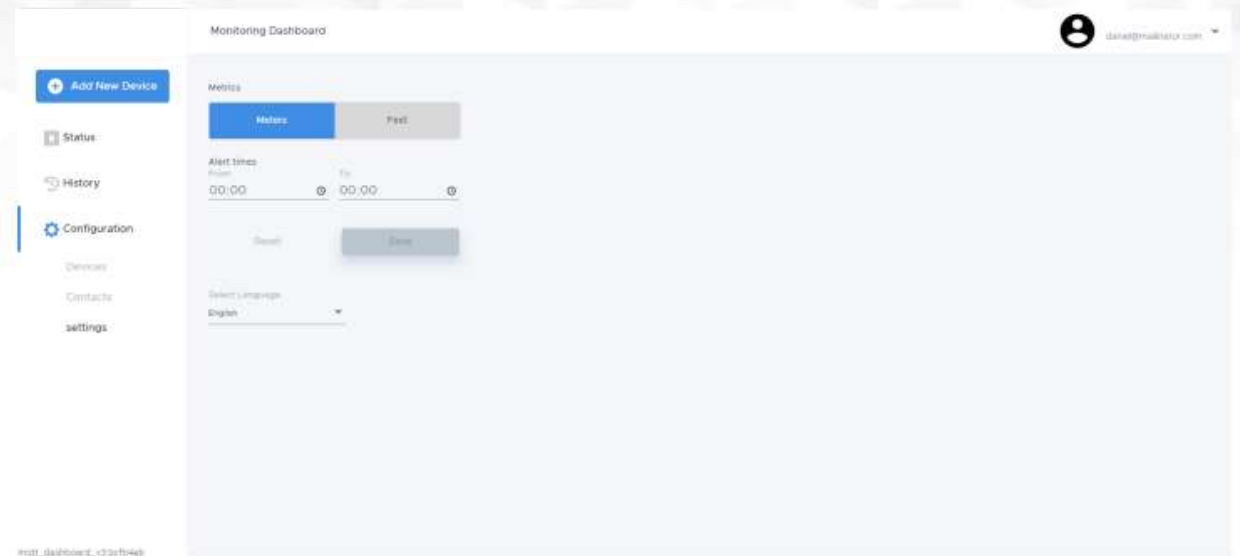
	Full Name	Phone Number	
0	Front Desk	+1	 

At the bottom left of the dashboard, there is a small text label: "net_deployed_0_b7m4k".

Settings

In the settings tab you can alter several functions including:

- ▶ Metric (meters or feet)
- ▶ Alert times (allows you to receive an alert when a resident leaves bed or leaves the room)
- ▶ Language



Configuration Summary

- ▶ After everything is configured, navigate to the Status screen using the side menu.
- ▶ Now you will see a box for each room you have configured.
- ▶ Within the room you will see the devices assigned to it.

Monitoring Dashboard

Connected Devices: 3 Devices

+ Add New Device

Status

History

Configuration

101



In Bed



Vacant



Disconnected

Tracker View

We are testing an experimental view for the dashboard called, Tracker View.

Tracker View allows you to view the location of the resident in the room, updated about every minute.

To access the Tracker View, go to the status view and click on the icon of the room you wish to view. Then, when the popup box opens, click on the icon of the room. This will open the tracker view as shown here.

The Monitoring Dashboard displays the following information:

- Monitoring Dashboard**
- Connected Devices: 3 Devices**
- Room 101 Status:**
 - In Bed (Selected)
 - Vacant
 - Disconnected
- ROOM DETAILS:**
 - Room Number: 101
 - Patient Name: Johan Menro
 - Present** (Selected)
 - Bedroom (Connected)
 - In Bed
 - Bathroom (Connected)
 - In Bathroom



Part 3: Dashboard Use

Monitoring Dashboard Kari Granleese
karigran@gmail.com

[Add New Device](#)

- Status 2
- History
- Configuration

Neurological Day Care: 25 Devices (2 Falls Detected)

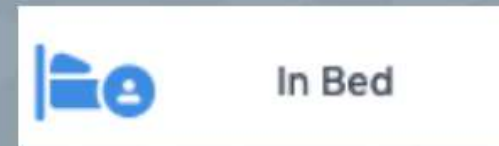
101 🔔 🛏️ Fall Detected 🚽 Vacant 🚰 Disconnected	102 🚽 Vacant 🛏️ Bedroom 🚰 Living Room	103 🔔 🚽 Bathroom 🛏️ Bedroom 🚰 Fall Detected	104 🚽 Bathroom 🛏️ Bedroom 🚰 Vacant	105 🚽 Bathroom 🛏️ In Bed 🚰 Living Room	106 🔔 🛏️ Fall Detected 🛏️ Bedroom 🚰 Living Room
2256 🔔 🚽 Bathroom 🛏️ Fall Detected 🚰 Living Room	2342 🚽 Vacant 🛏️ Bedroom 🚰 Living Room	2434 🚽 Bathroom 🚽 Vacant 🚰 Living Room	2555 🚽 Bathroom 🛏️ Bedroom 🚰 Vacant	2659 🚽 Bathroom 🛏️ In Bed 🚰 Living Room	2748 🚽 Bathroom 🛏️ Bedroom 🚰 Living Room
3310 🚽 Bathroom 🛏️ Bedroom	3320 🚽 Vacant 🛏️ Bedroom	3330 🚽 Bathroom 🛏️ In Bed	3340 🚽 Bathroom 🛏️ Bedroom	3350 🚽 Bathroom 🛏️ In Bed	3340 ! 🚰 Disconnected 🛏️ Bedroom

Device States

In here you can see the status for each of the rooms configured, by clicking on their icons.

The possible states are:

- ▶ **In room (any type)** – when the device detects that someone is within the limits of the room the symbol will light up blue.
- ▶ **In Bed** – when the device configured as 'Bedroom' detects that someone is in the first or second sub-region, the symbol will light up and an icon of a person will appear on the bed, depending on which region .
- ▶ **Vacant** – when the device detects no presence it will be grey.
- ▶ **Disconnected** – when the device has lost connection with the dashboard it will light up orange.
- ▶ **Fall confirmed** – when a fall has been detected in the room the device will light up red and the symbol will pop out.

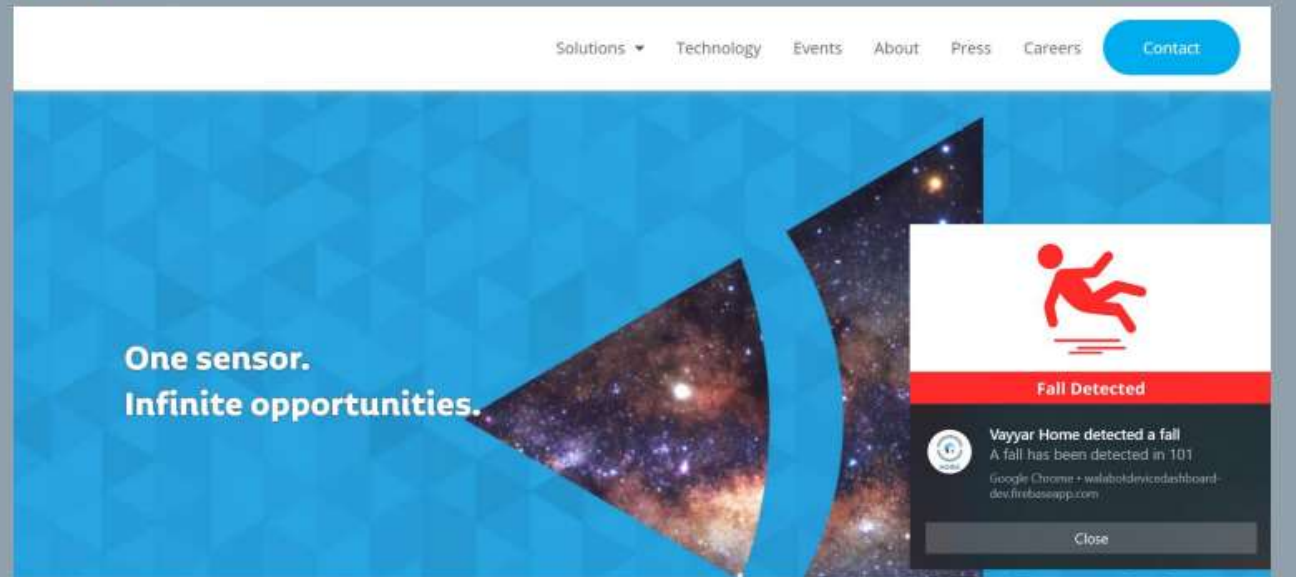


Device Alerts

- ▶ You will receive alerts when a patient has left the bed, the room, or has fallen.
- ▶ Once you see the alert, you can click on the room's icon and then dismiss it.
- ▶ 'Out of Bed' and 'Out of Room' alerts will appear only between the hours you have configured, while the 'Fall Detected' alert will always appear.
- ▶ You will also receive a notification over other open windows if there is a fall.



The screenshot shows a 'Monitoring Dashboard' with a user profile 'daniel@mailinator.com' in the top right. On the left, there is a sidebar with 'Add New Device', 'Status' (with a red notification badge), 'History', and 'Configuration'. The main area displays 'Connected Devices: 3 Devices (1 Falls Detected)'. A red-bordered box highlights a card for room '101' with a red alarm icon. Below the room number, three status options are listed: 'Fall Detected' (with a red bed icon), 'Vacant' (with a grey bed icon), and 'Disconnected' (with a yellow person icon).



The screenshot shows a website banner with a blue background and a starry space image. The text reads 'One sensor. Infinite opportunities.' On the right, there is a navigation menu with 'Solutions', 'Technology', 'Events', 'About', 'Press', 'Careers', and a blue 'Contact' button. A notification popup is overlaid on the right side, featuring a red fall icon, the text 'Fall Detected', and a message: 'Vayyar Home detected a fall. A fall has been detected in 101'. It also includes a small Vayyar logo, the browser address 'Google Chrome - vlaboldevicedashboard-dev.firb2seapp.com', and a 'Close' button.

Part 4: Test Falls



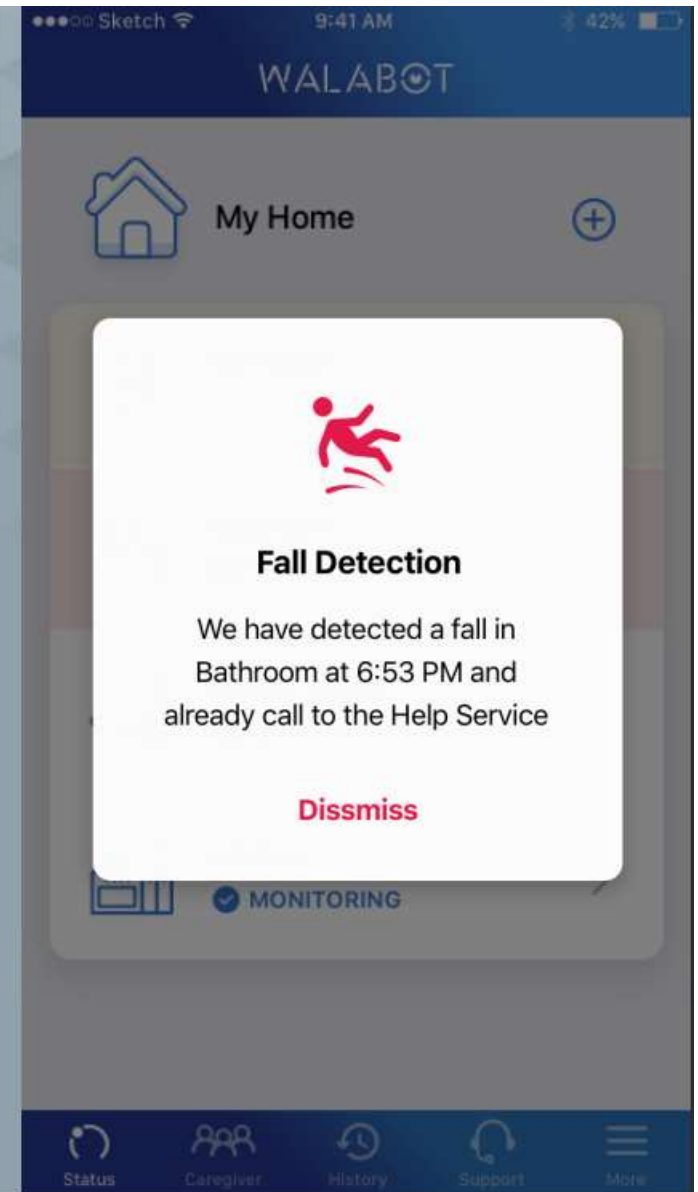
Test Falls

- ▶ Once the devices are installed, it is very important to test the system to ensure that it is working properly. After you have configured the room, you are required to perform a few test falls.
- ▶ You will need to stay on the ground for approximately a minute and a half.
- ▶ It takes 45 seconds for the device to register a fall
- ▶ You will see the LED light slowly flashing blue during this time.
- ▶ For the next 16 seconds the device will make a beeping sound and the LED will flash more quickly.
- ▶ After the first minute the device will send the SMS message.



Test Falls

- ▶ For each room there should be a minimum of two test falls performed.
 - ▶ One fall should be done from a standing position.
 - ▶ One fall should be done from a sitting position and from a different location in the room than the first fall.
- ▶ You should fall flat on your back
- ▶ Do not sit, kneel, or be raised off the ground in any way.
- ▶ Test falls need to occur in every room with every device.
- ▶ The following additional tests need to be performed to ensure that no alarms go off as well as to test presence detection:
 - ▶ Laying down on the bed
 - ▶ Sitting on the toilet, couch, recliner, etc.
 - ▶ Leaving the room



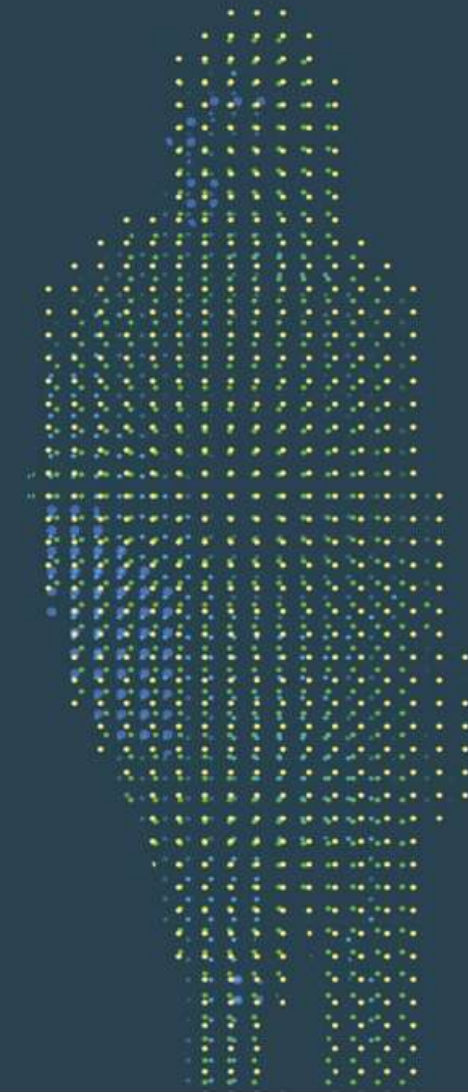
Part 5: General Guidelines

- ▶ It is important to install the devices and configure their arenas in such a way that they will not overlap with each other's coverage. Two devices monitoring the same area will make them less effective.
- ▶ The notification of presence and connectivity may not appear immediately upon login and may take up to 2 minutes.
- ▶ If possible, take photos of the room layout. It will be useful when troubleshooting.



Vayyar Home's 4D Sensing

*This is an approximation of how Walabot HOME's 'point-cloud' imaging technology sees you.



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