Vayyar Home
Installation Guide

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intelligent sensors

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Table of Contents

What is the Vayyar Home?

The Vayyar Home uses radio waves to scan a room 24/7 and detect if your resident has fallen. After a fall event, Vayyar Home will send an SMS message to the primary caregiver so that the resident can receive medical attention. You will also be able to view any falls and resident presence on the facility dashboard. The use of radio waves is completely harmless and means that there are no cameras to ensure the privacy of the resident.

What is included:

Vayyar Home Device

USB Wall Charger

Adapter (as needed)

What you need:

Strong Wi-Fi
(2.4 GHz)

Tape Measure

Bluetooth-enabled
Smartphone

Computer with
Google Chrome
(optional)

Vayyar Home

LED

Push Button

Vayyar Home: Terms and Lingo

► **Device**: The Vayyar Home device.

► **Device ID:** The primary way we identify devices. Each number starts with "id_...." followed by a long string of numbers and letters.

► **Mobile App:** The application you download to your phone, Vayyar Home.

  ► Can be downloaded from **Google Play Store** and the **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.

► **Sub-region:** A region that you can choose to have fall detection or not, as well as choose to have presence detection or not.

► **Fall Detected:** When a device has detected a fall and has sent a notification to the dashboard.

Device Installation

Mounting the Device → Logging in to your Account → Pairing Your Device

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Mounting the Device on the Wall

▶ Mount the device on the required wall using the adhesive strips on the back of the device.

▶ 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 electrical outlet.

▶ The device needs to be connected to a 2.4 Ghz Wi-Fi network with a strong 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, or shelving.

▶ The device needs to be mounted on a wall and not a window, a tv, a piece of furniture, etc.

1.5m (5ft)

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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 by using a working email account.

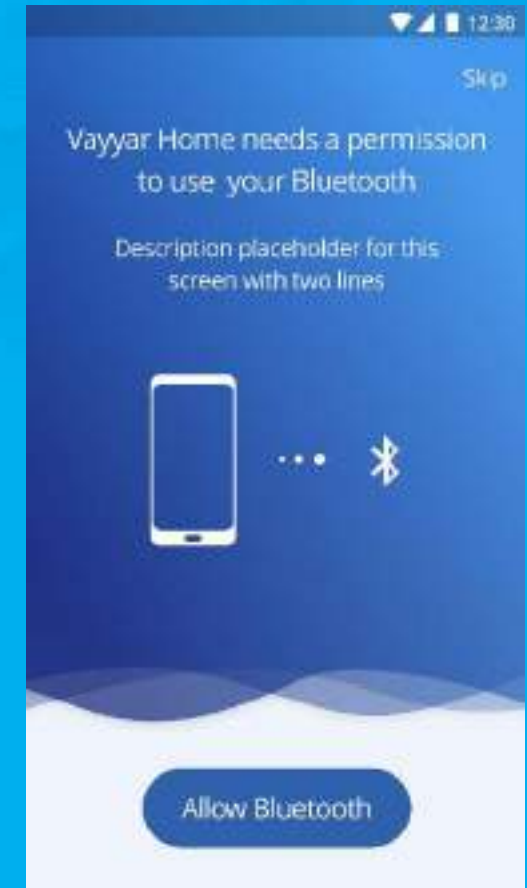▶ At this point, please connect to the strongest Wi-Fi connection possible with a 2.4GHz bandwidth.

Pairing to your Device

Step1: Allow notifications.

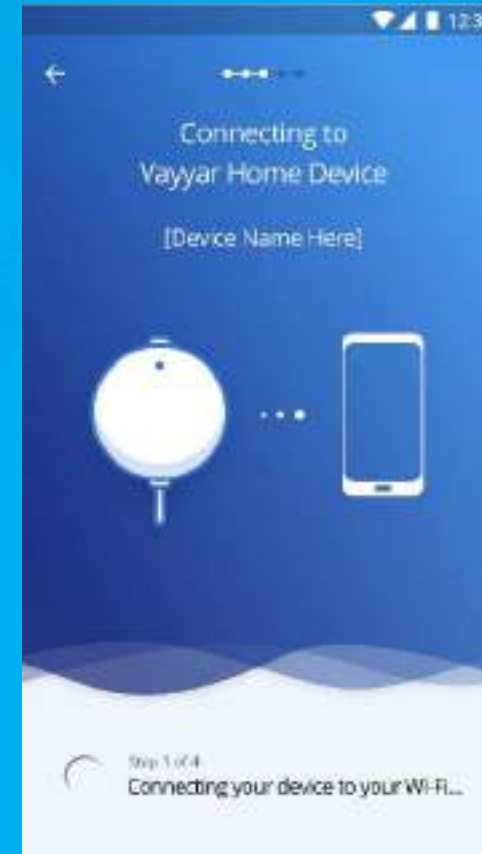Step2: Allow microphone.

Step2: Allow Bluetooth.
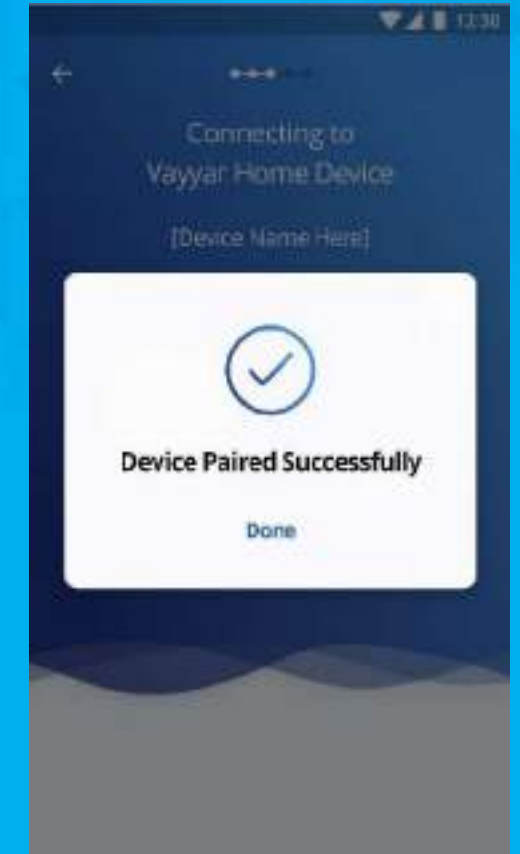
Pairing to your Device (cont.)

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

Step4: Enter in the Wi-Fi password for the network you are currently using.

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

Step6: You are now paired!

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, measure the distance from the device 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.
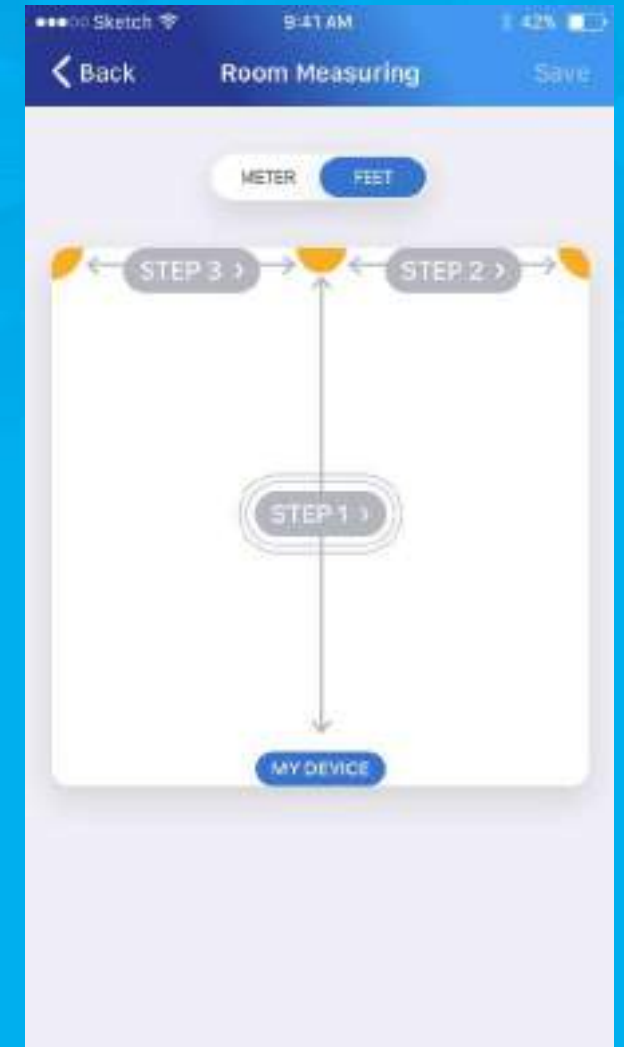
Calibrating your device

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.
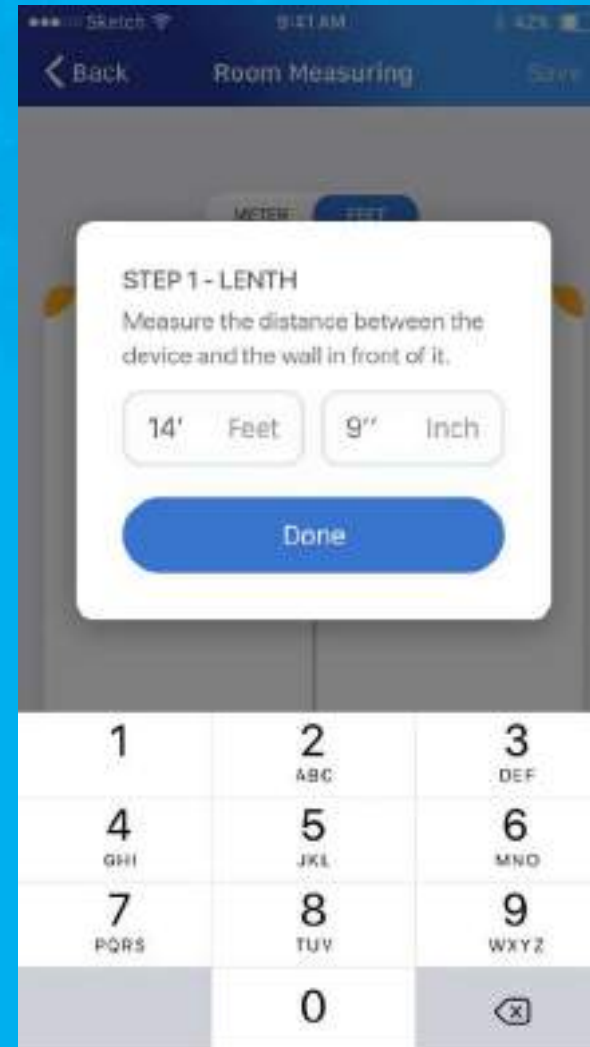
Your Device is Paired

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.
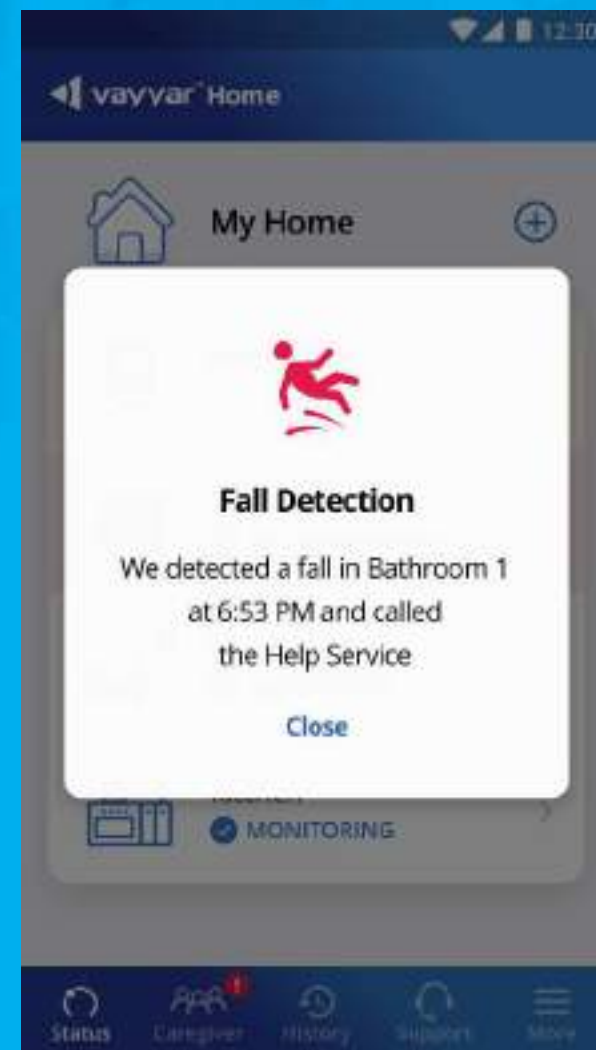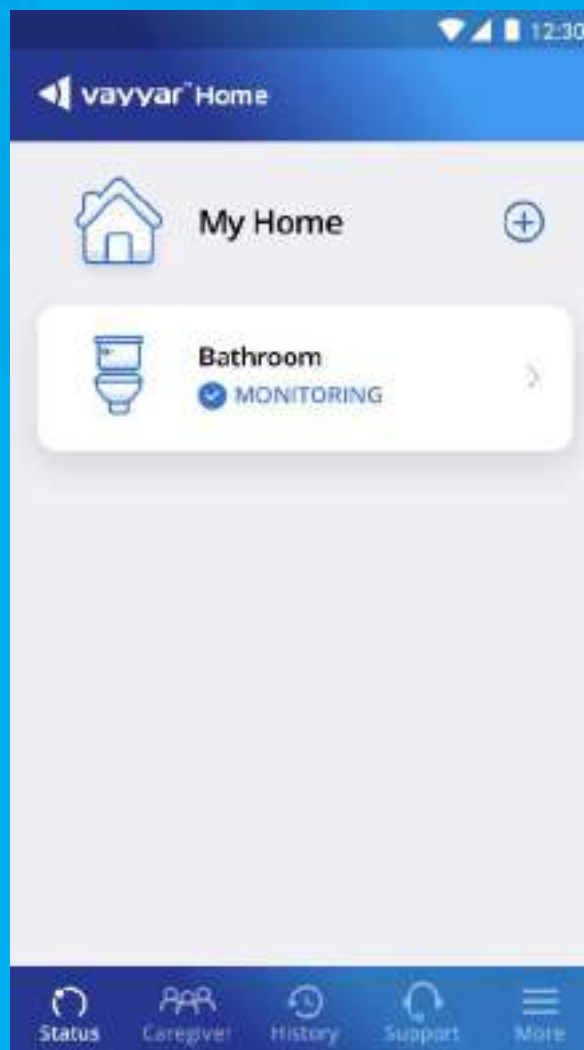
Logging on to your Dashboard Account

Open the URL
walabotdashboard.firebaseapp.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.
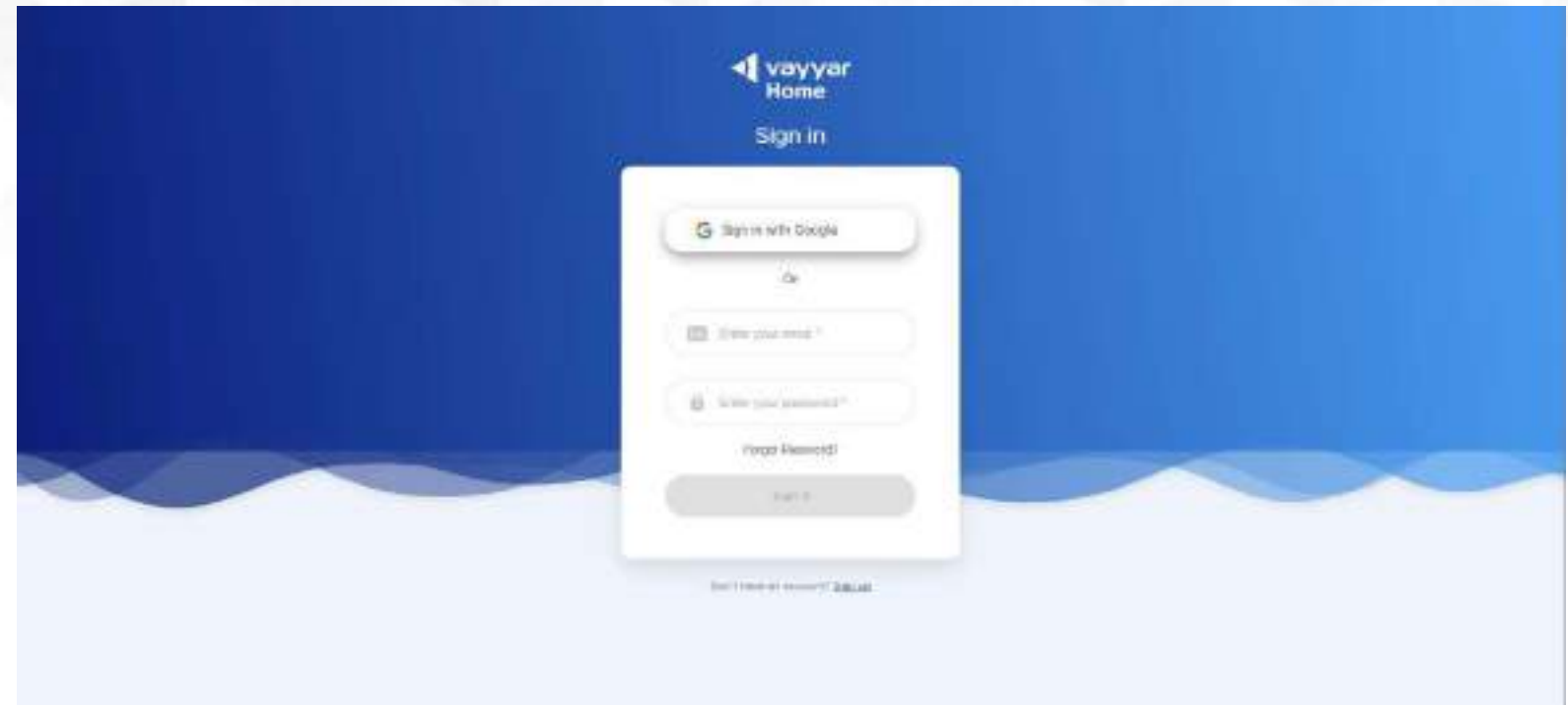
Device Configuration

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.
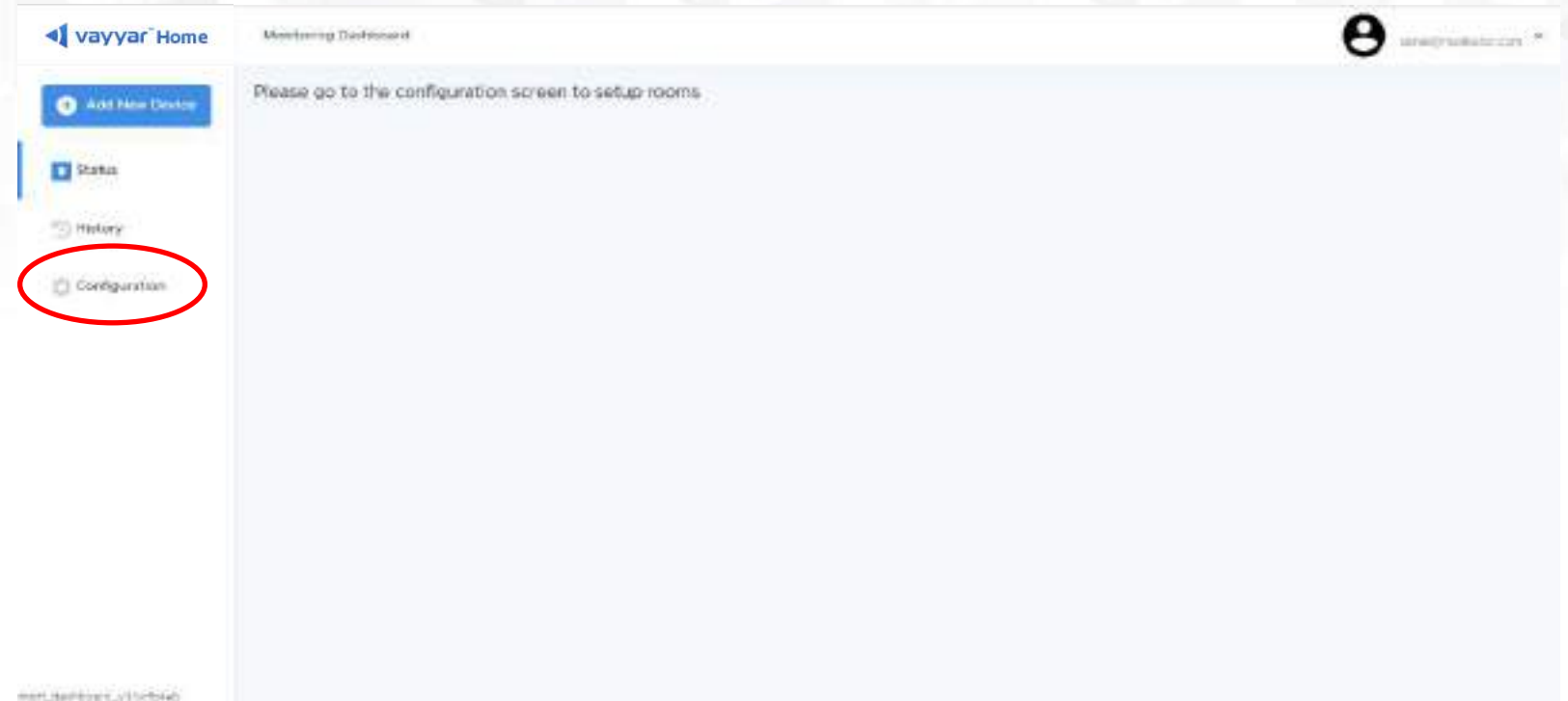
Add room/apartment names to your account

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.
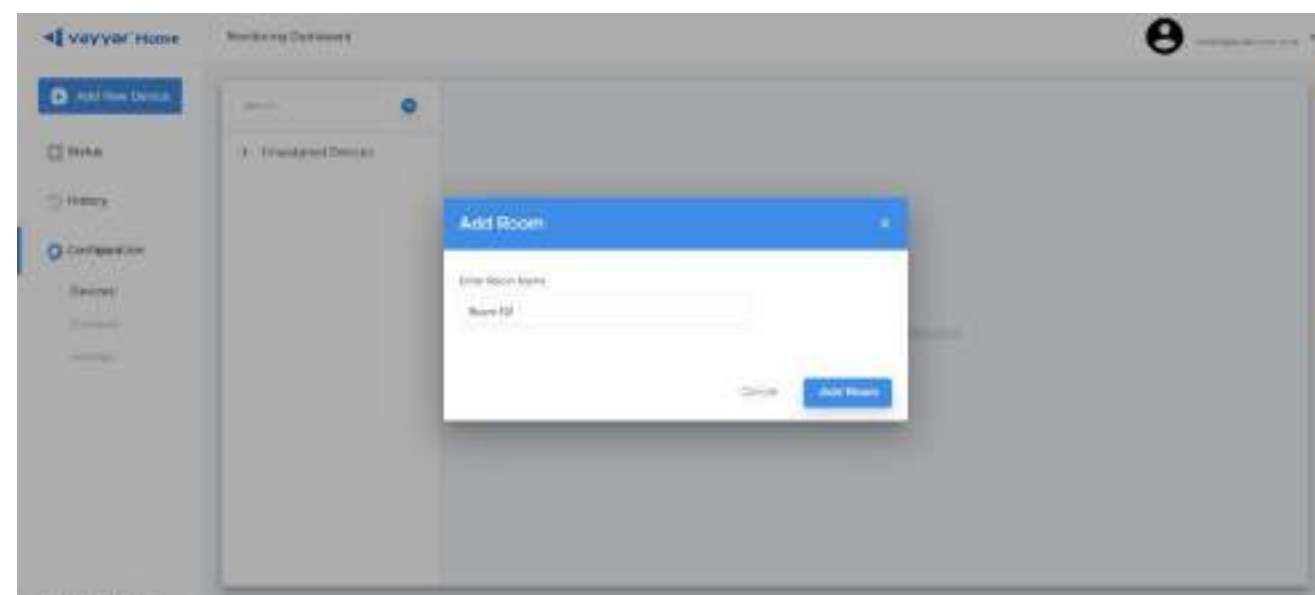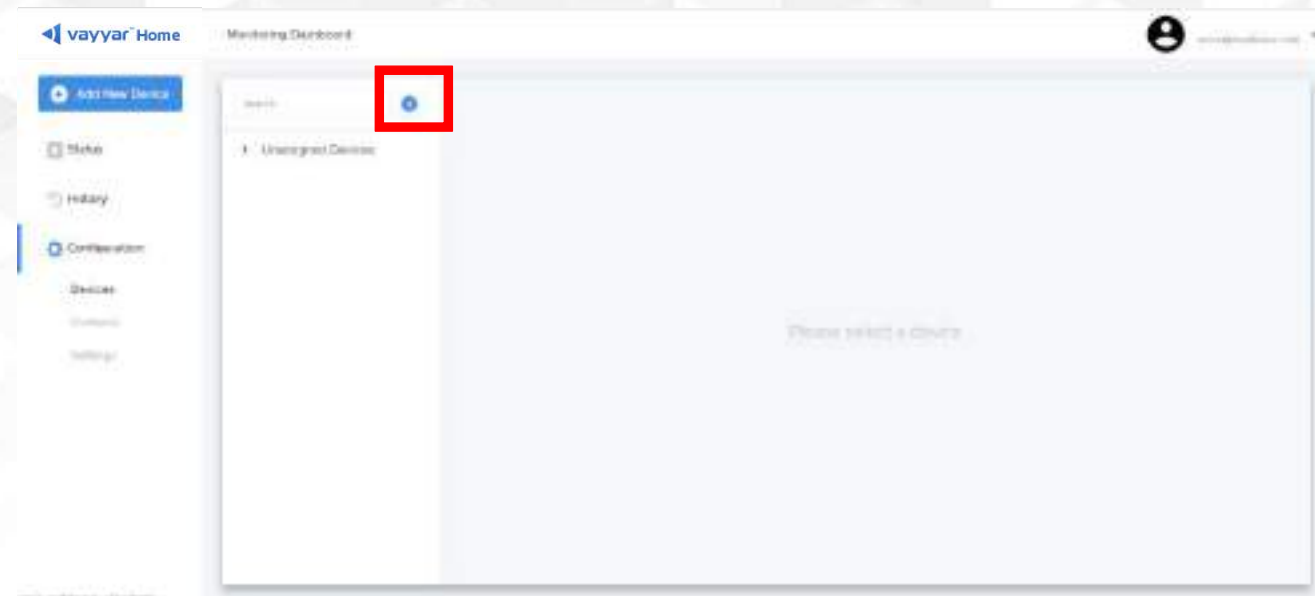
Assign Devices to a Room

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 its device ID and click, 'Add Device.'
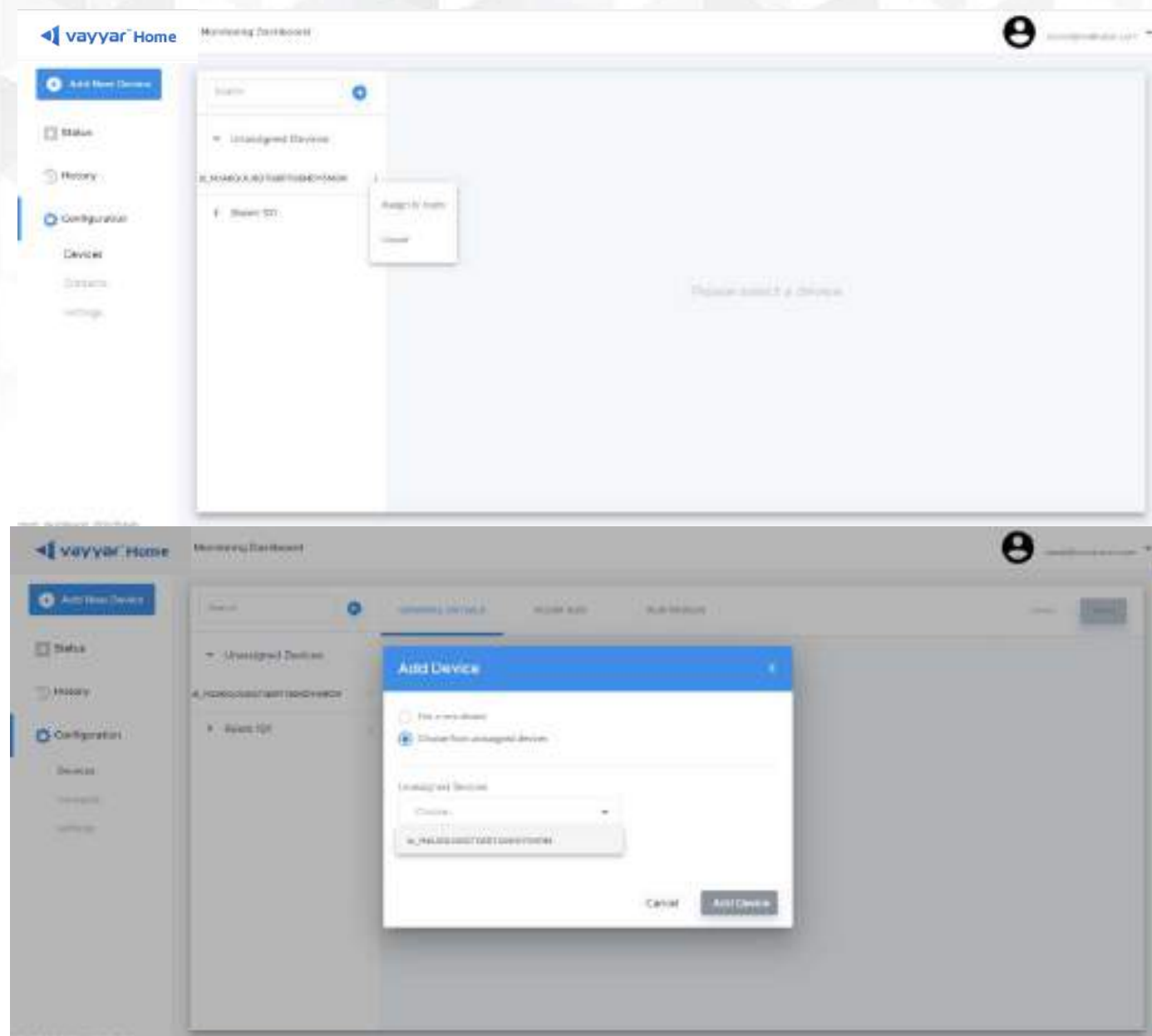
General Details

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.

Please note: When silent mode is activated, this means SMS notifications will not be sent to the caregiver in the event of a fall. Silent mode does not turn the device volume down.
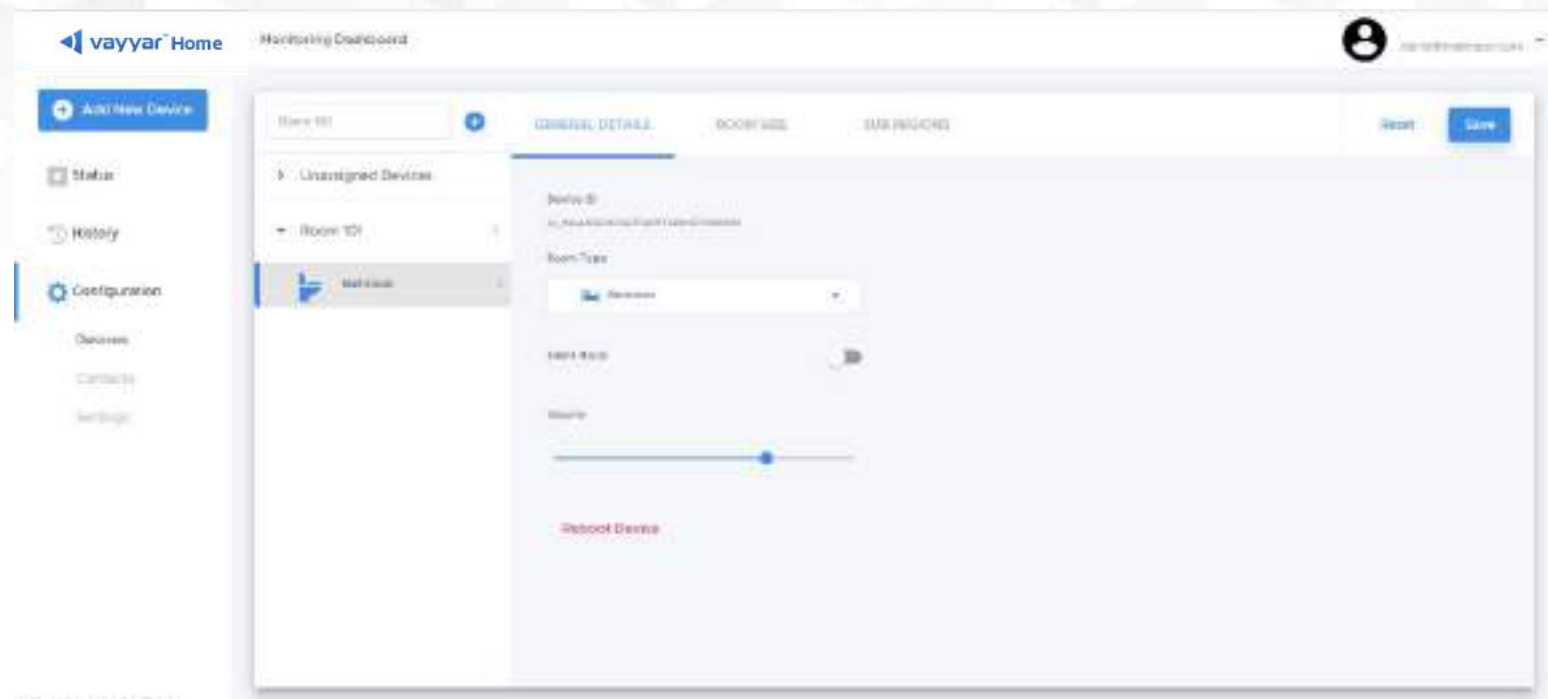
Move or Delete devices

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.
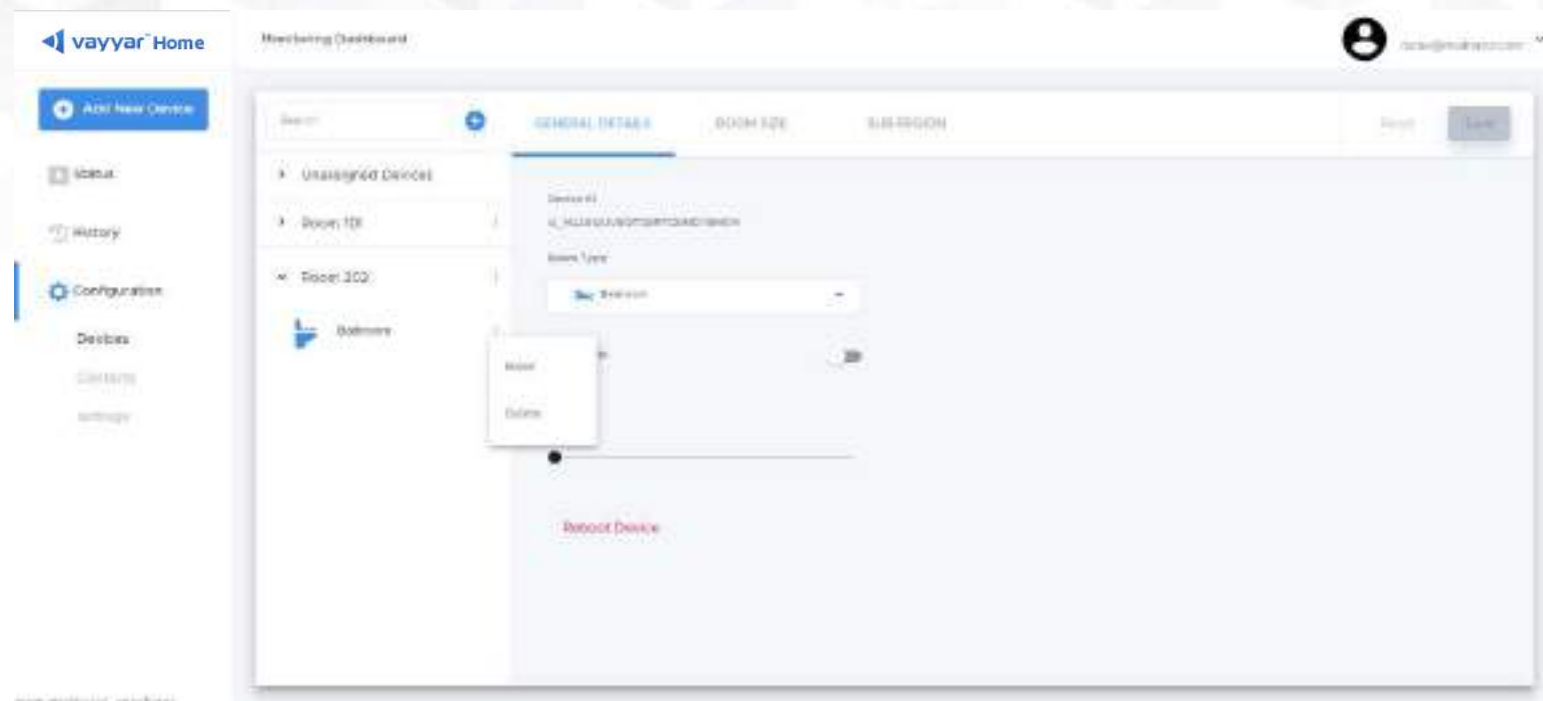
Unpair devices

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.
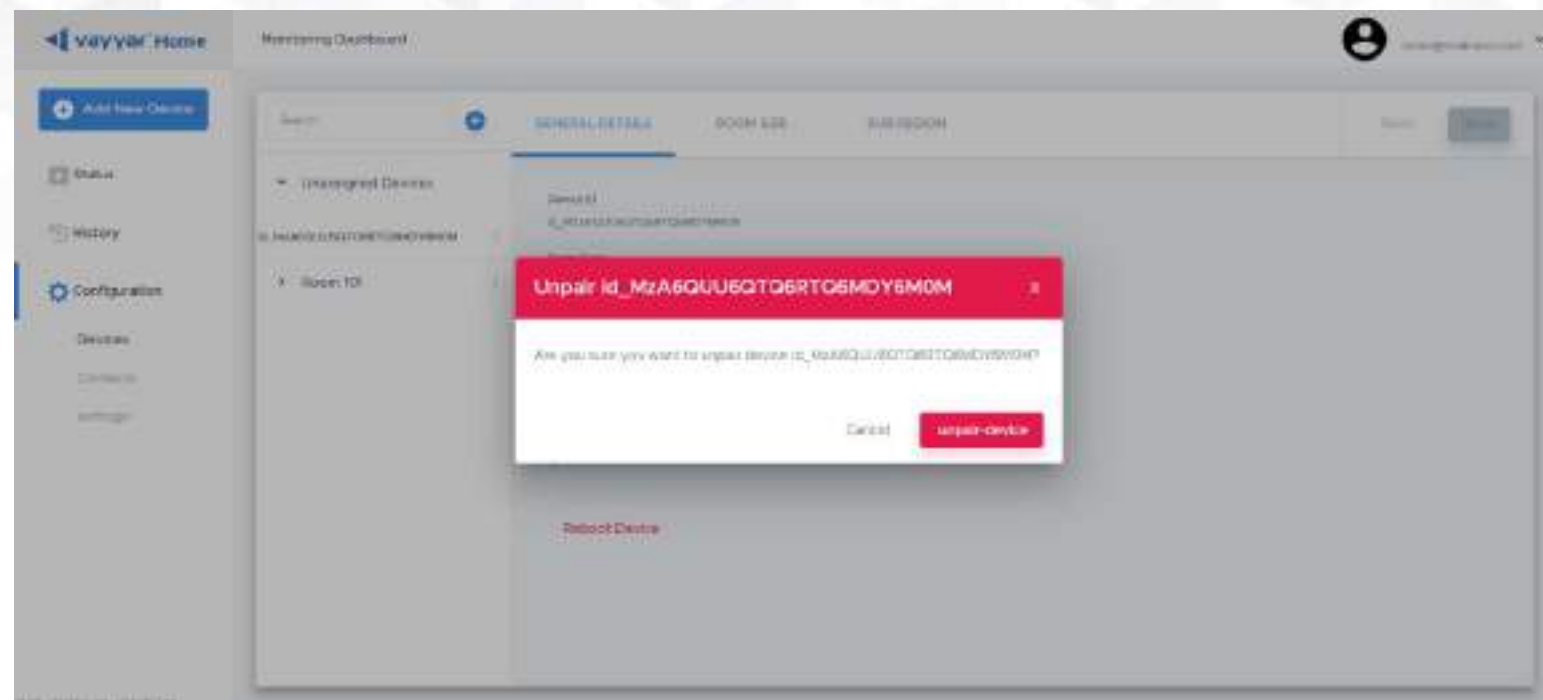
Room Size

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 2 meters (6ft 6in) to the right side from the center of the device, and 4 meters (13ft) length from the device to the opposite wall.
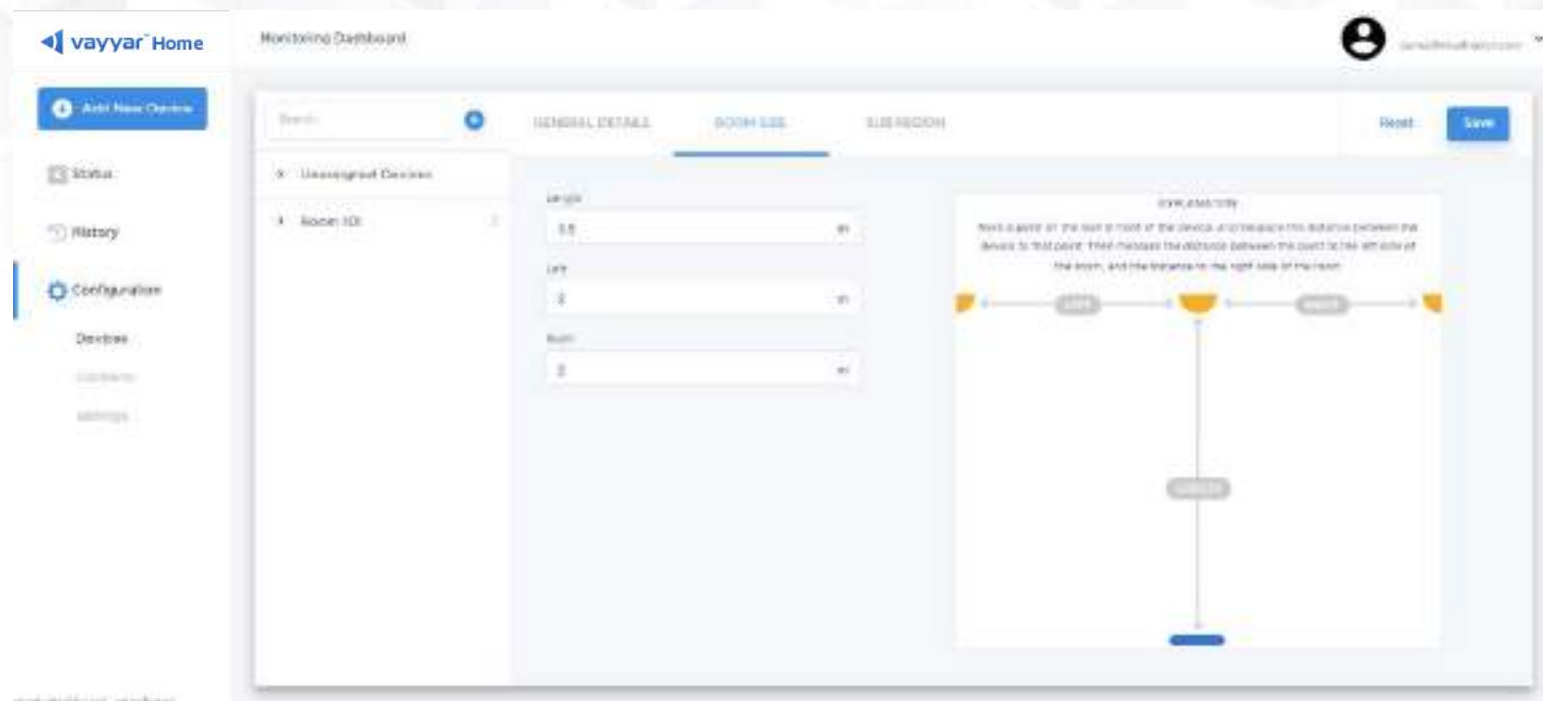
Sub Regions

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.
It is required to define a 'bed region' in a bedroom and a 'toilet region' in a bathroom in order to avoid false alarms when someone lies on the bed or sits on the toilet.

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 bed Sub Regions in the bedroom. They need to be the first two regions you create.
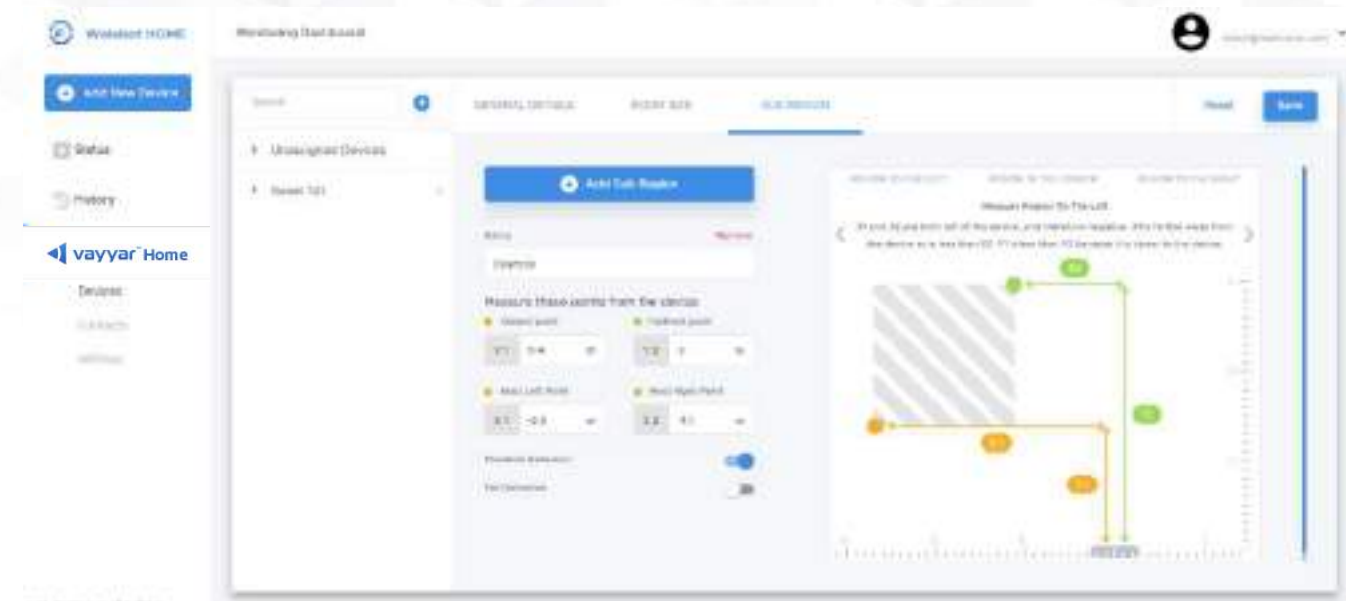
Contacts

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.
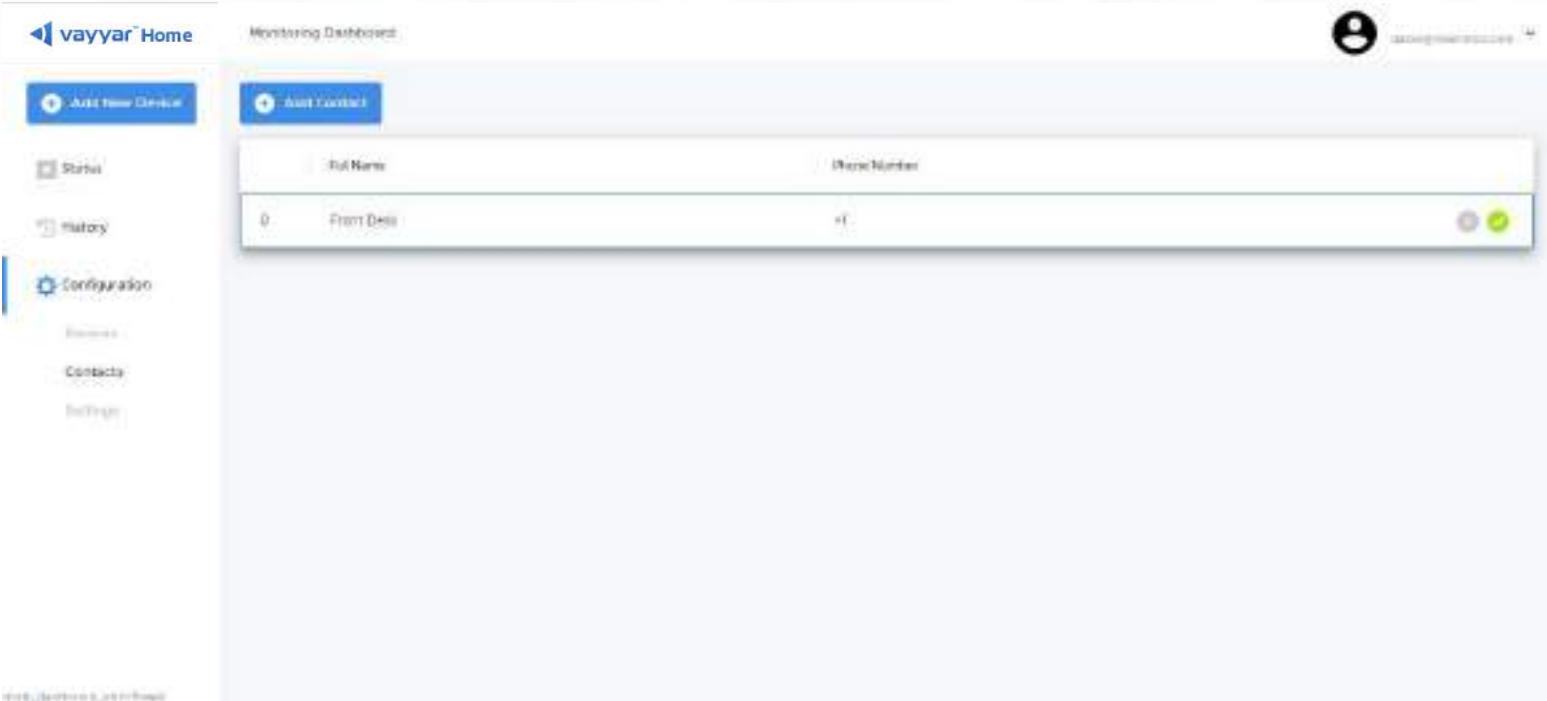
Settings

In the settings tab you can alter several functions, including:

▶ Metrics (meters or feet).

▶ Alert times (allows you to receive an alert when a resident leaves bed or leaves the room).

▶ Language.
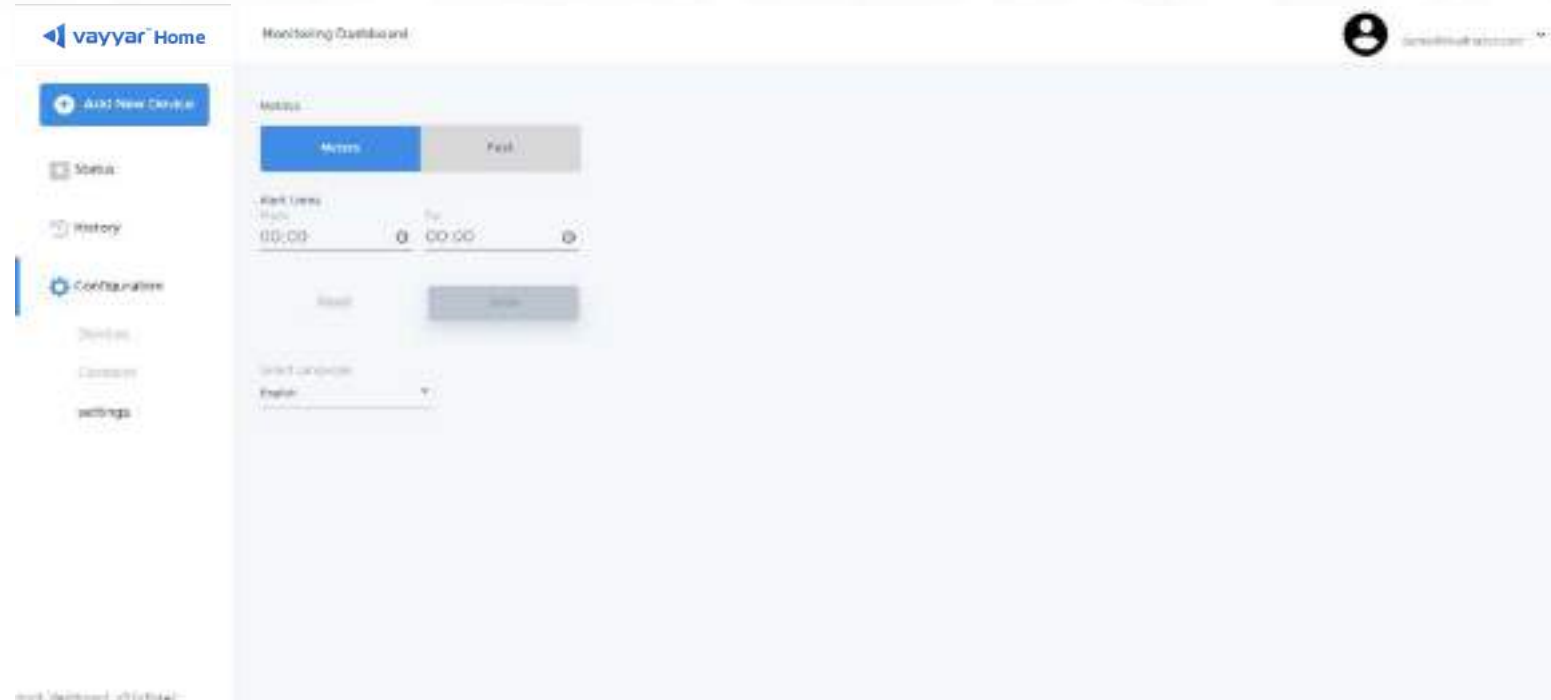
Configuration Summary

▶ 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.

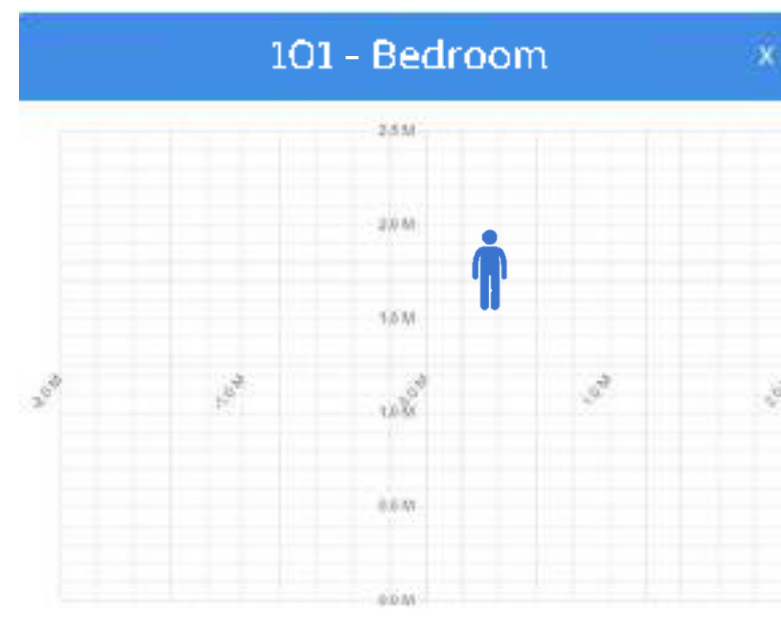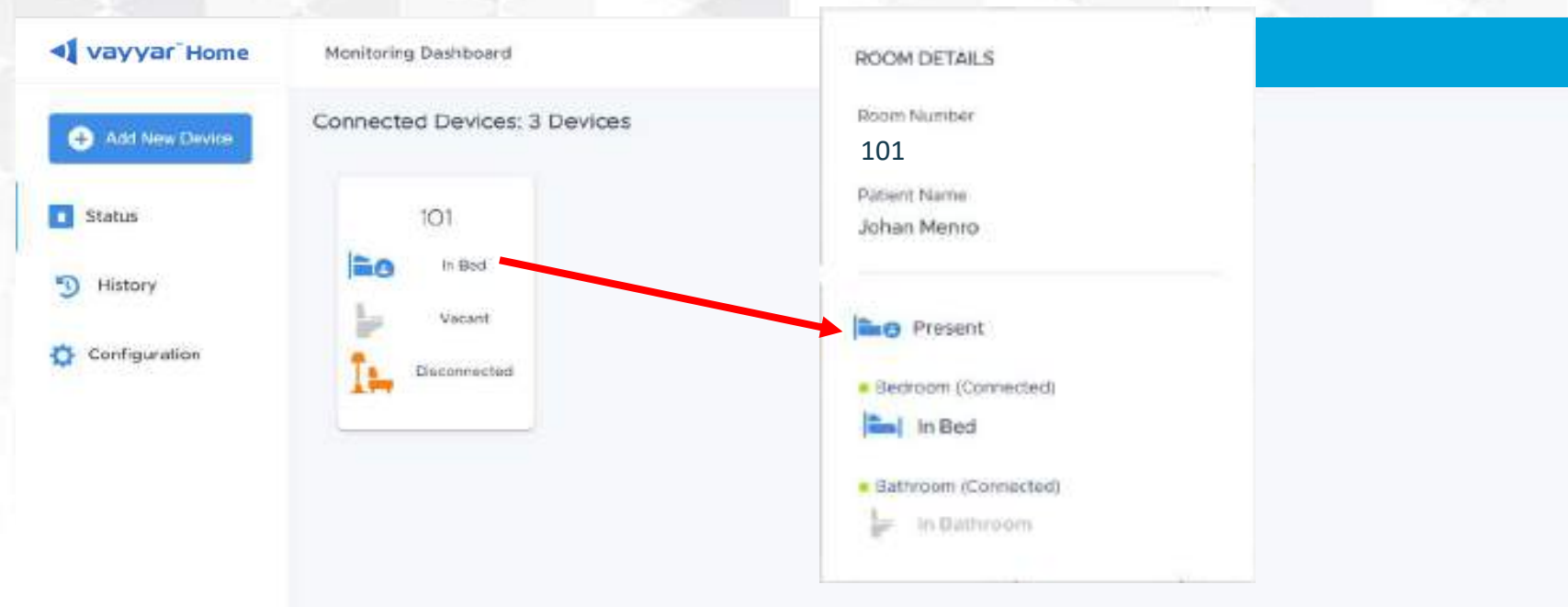▶ Within the room you will see the devices assigned to it.
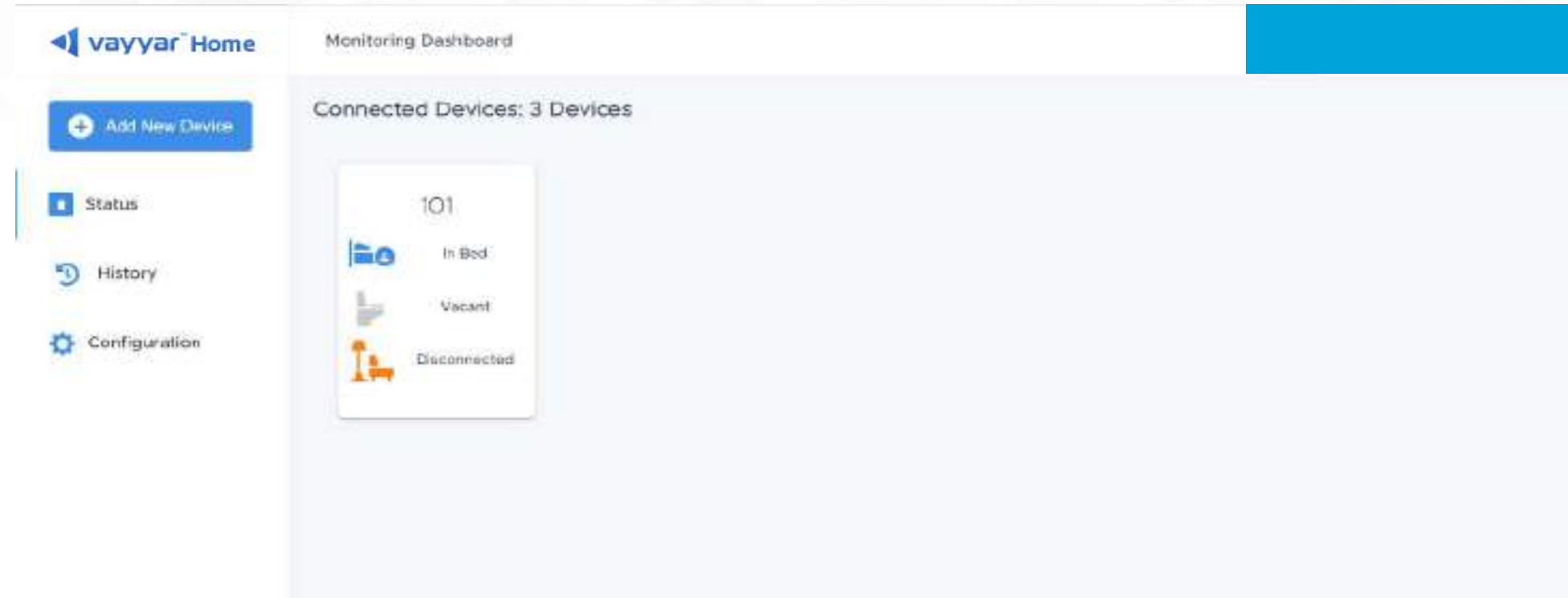
Tracker View

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.

Dashboard Use

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 (is disconnected from Wi-Fi or the power) it will light up orange.

► **Fall Detected** – when a fall has been detected in the room the device will light up red and the symbol will pop out.

Bedroom

In Bed

In Bed
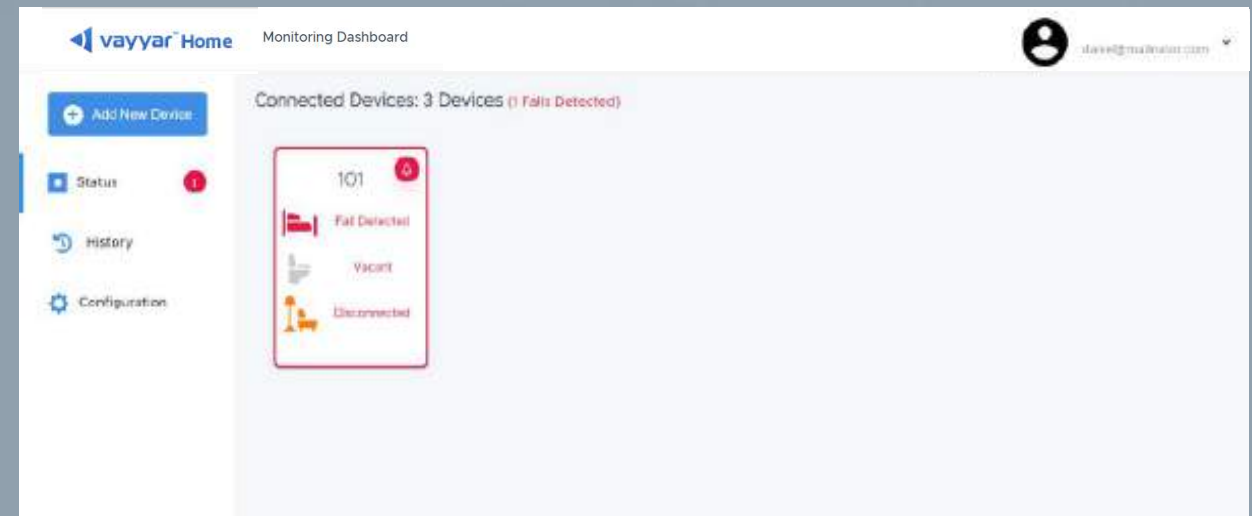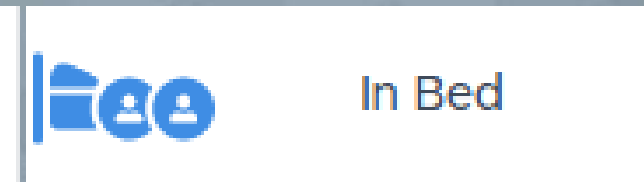
Device Alerts

▶ 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 in the Settings tab, while the 'Fall Detected' alert will always appear.

▶ You will also receive a notification over other open windows if there is a fall
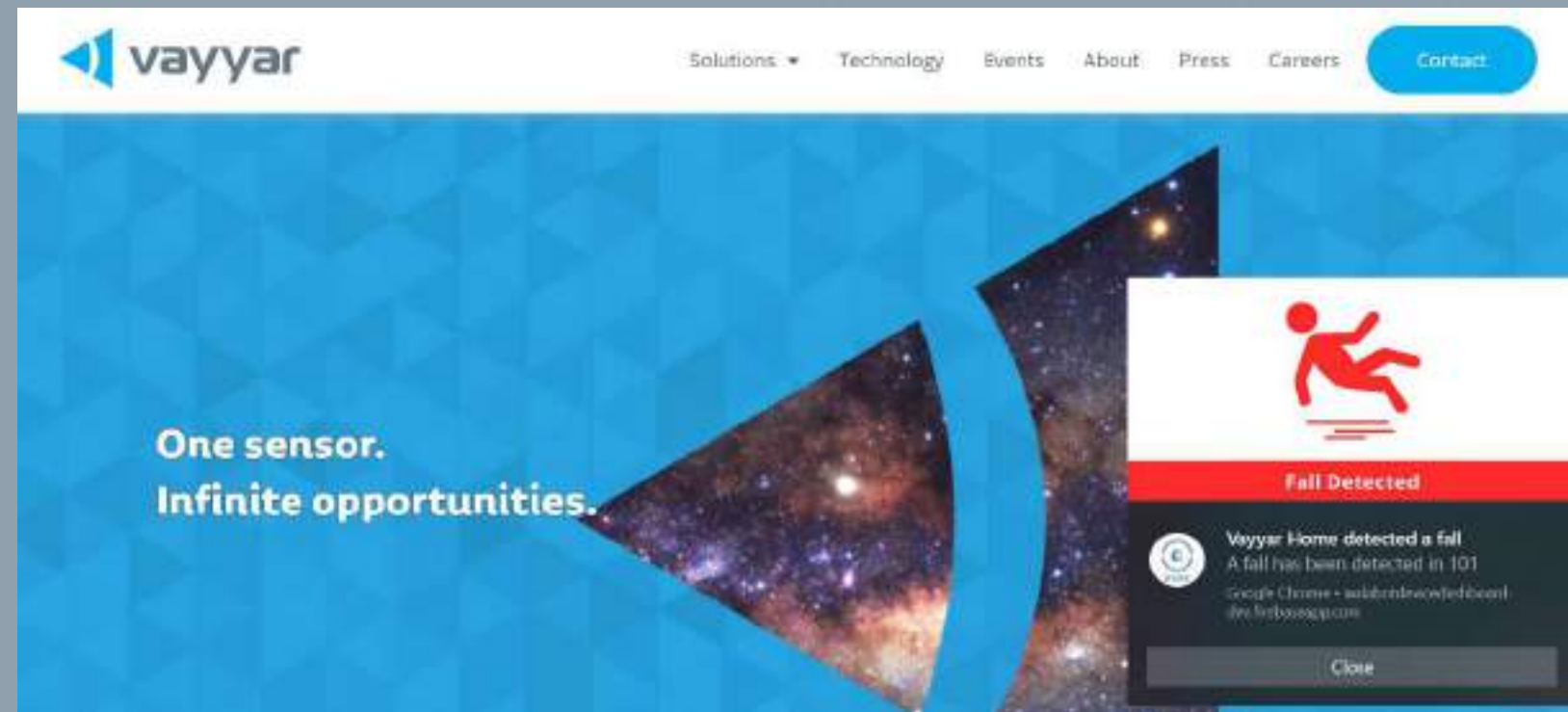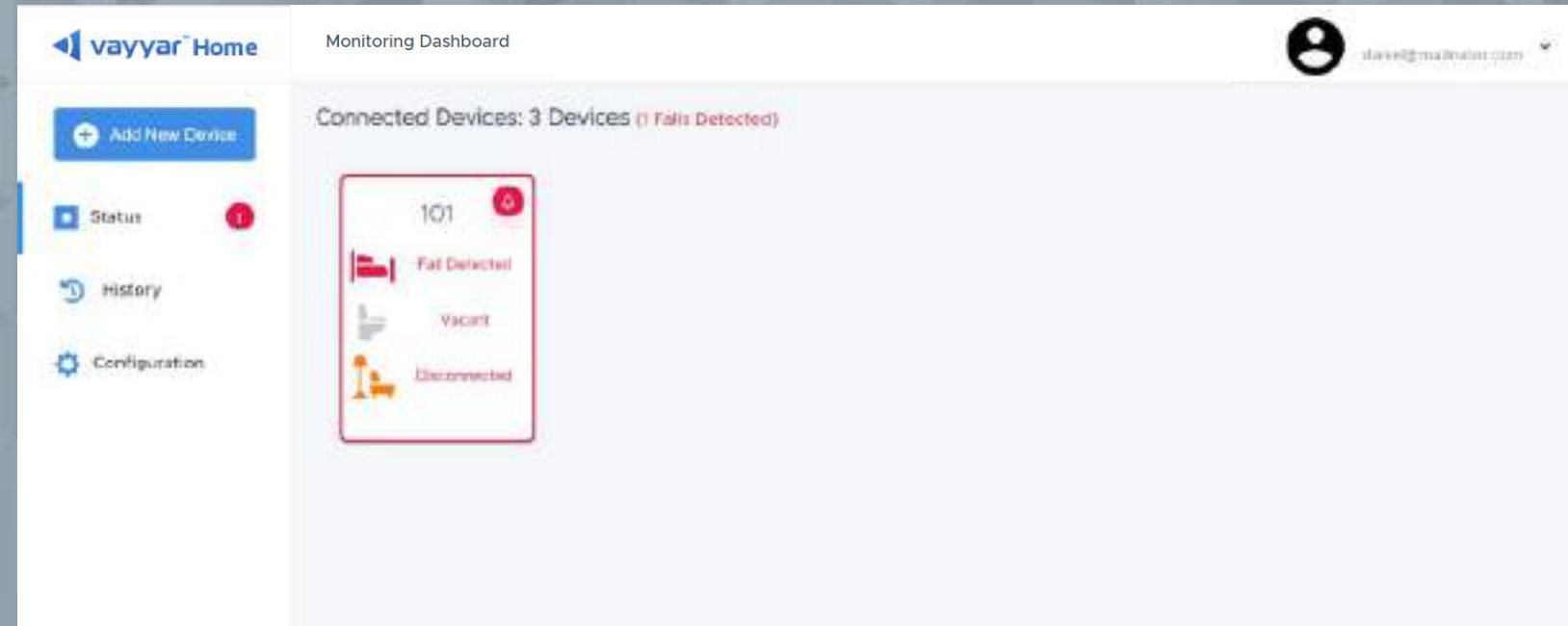
Test Falls

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 yellow during this time.

▶ For the next 45 seconds the device will make a beeping sound and the LED will flash more rapidly.

▶ After the first minute and a half the device will send the SMS message.

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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.

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.

▶ If you are experiencing an error, simply unplug and plug the device back in for the device to reinitialize.
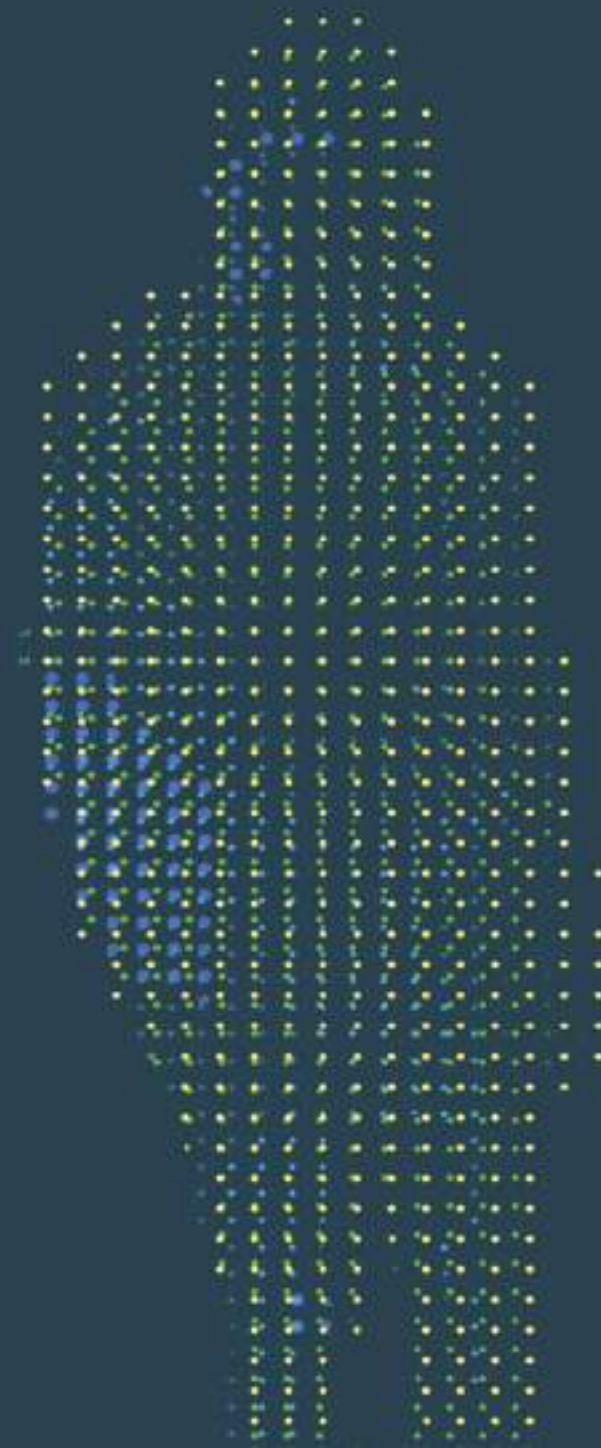
Factory Reset

- In order to either change Wi-Fi networks or pair to a new user, you will need to do a factory reset.

  - ► To do a factory reset: Hold the button down until the device blinks red and white (approximately 30 seconds).

  - ► Then let go of the button.

  - ► Your device is now reset, and you can pair to a new Wi-Fi network and new user. To place the device in pairing mode, hold down the device button for 5 seconds and release.

- Please note: Resetting the device will also mean that you need to pair the device again, even if you just want to change Wi-Fi networks.

Thanks for watching.

We appreciate your time and
are here to support you.
You can contact us via the
App or by emailing:
homesupport@vayyar.com

We look forward to hearing
from you.