

Pontosense Workshop

Getting Started



Agenda

1. Unboxing

- a) What's Included
- b) Silver Shield Module

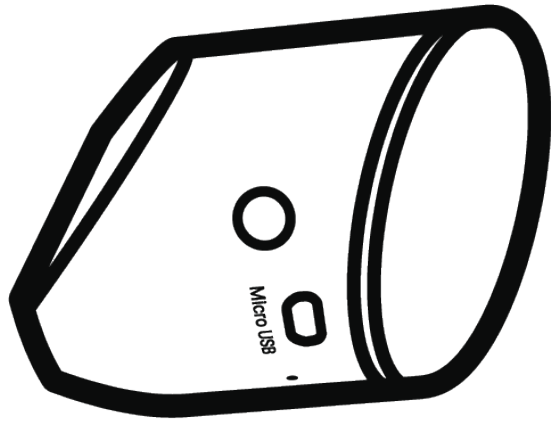
2. Installation

- a) What You'll Need
- b) Mobile App
- c) Add Device
- d) Network Configuration
- e) Assign Sensor
- f) Sensor Placement and Calibration

3. Silver Shield Demo and Features

4. Performance Validation & Best Practices

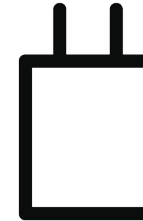
Unboxing – What's Included



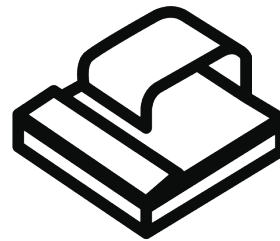
Silver Shield Module x 1



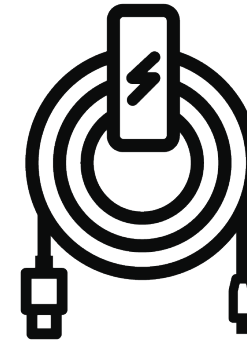
Adapter (Type C) x 1



Adapter (Type A) x 1



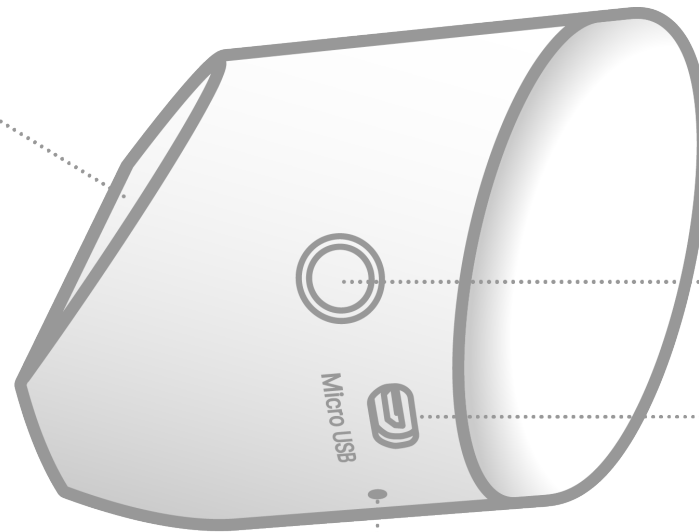
Cable Clips x 10



8m Power Cable x 1

Silver Shield Module

Double-Sided
Adhesive
for Installation



Button

Micro-USB
Power Port

LED Indicator

Silver Shield includes both a **2.4 GHz Wi-Fi module** for connectivity, and a **mmWave module** installed at a 30° angle for optimal performance.

Button Function



During Installation or to Reset Wi-Fi Configurations: press and hold the button for 3 seconds until LED flashes green

- Pressing the button is a necessary step when configuring the network, allowing the sensor to broadcast its own temporary hotspot for sensor configuration



Factory Reset: press and hold the button for 15 seconds until LED flashes red

- Reset the sensor's configurations and settings, erasing all local sensor data
- *Note: Any data sent to the cloud will not be erased*



LED Status



Flashing Slowly: Network Configuration Mode – the sensor is broadcasting its own hotspot and is waiting for configuration

Flashing Quickly: The sensor is attempting to connect to the local Wi-Fi network

On (Stable): The sensor is upgrading



Flashing Slowly: The sensor has successfully connected to the Wi-Fi

Flashing Quickly: The sensor has confirmed Wi-Fi access and is connecting to the cloud server



LED Off: The sensor is successfully connected to the cloud server via the internet



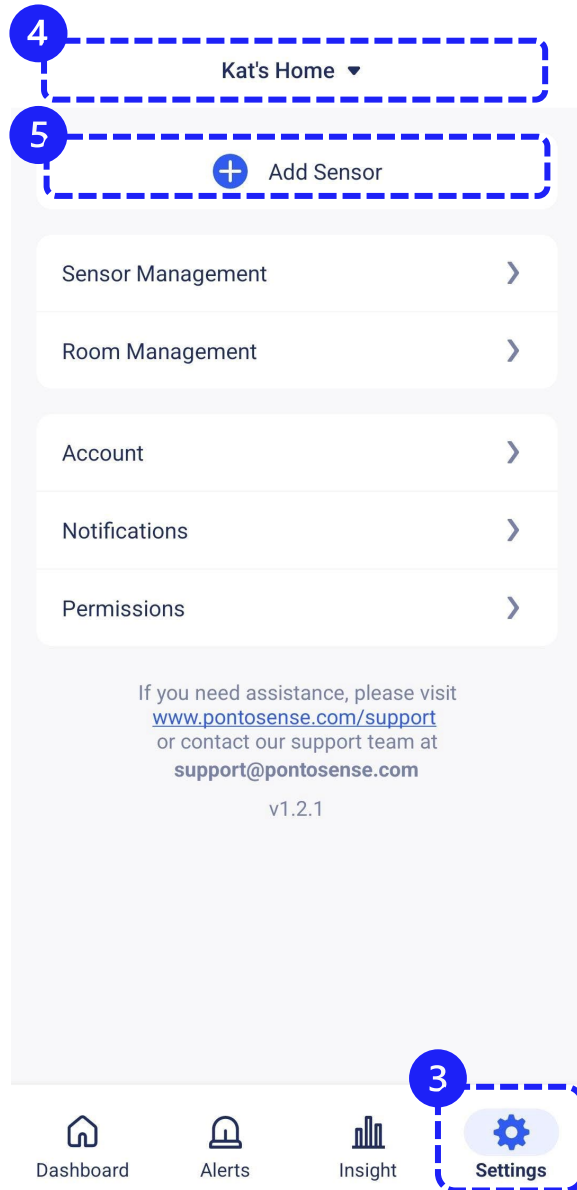
Flashing: The sensor is going through a factory reset

Installation – What You'll Need Today

1. Pontosense Silver Shield
2. Measuring tape
3. Step ladder or stool (for sensor placement)
4. Mobile Device
 - i. Pontosense App
 - ii. Measure App (to verify sensor level)
5. Wi-Fi SSID and password
6. Wi-Fi broadcasting in **2.4 GHz**
 - *Note: Combined 2.4/5 GHz SSID's are ok*



Installation – Mobile App



1. Scan the QR code to download the Pontosense App
2. Login into the App using the following credentials:
 - **Account:** BCI
 - **Password:** iQmdHM5x



These credentials may also be used to access the Pontosense Web App at www.pontosense.cloud


3. Select **Settings**
4. Select the home you wish to add the sensor to
5. Select **Add Sensor**

Installation – Add Device

< Add Device

Please power up your device and make sure it has entered the Network Configuration Mode. The LED indicator should be blinking green slowly. If not, please long press the reset button for 3 seconds and release.

If you need assistance, please go to <https://www.pontosense.com/support>



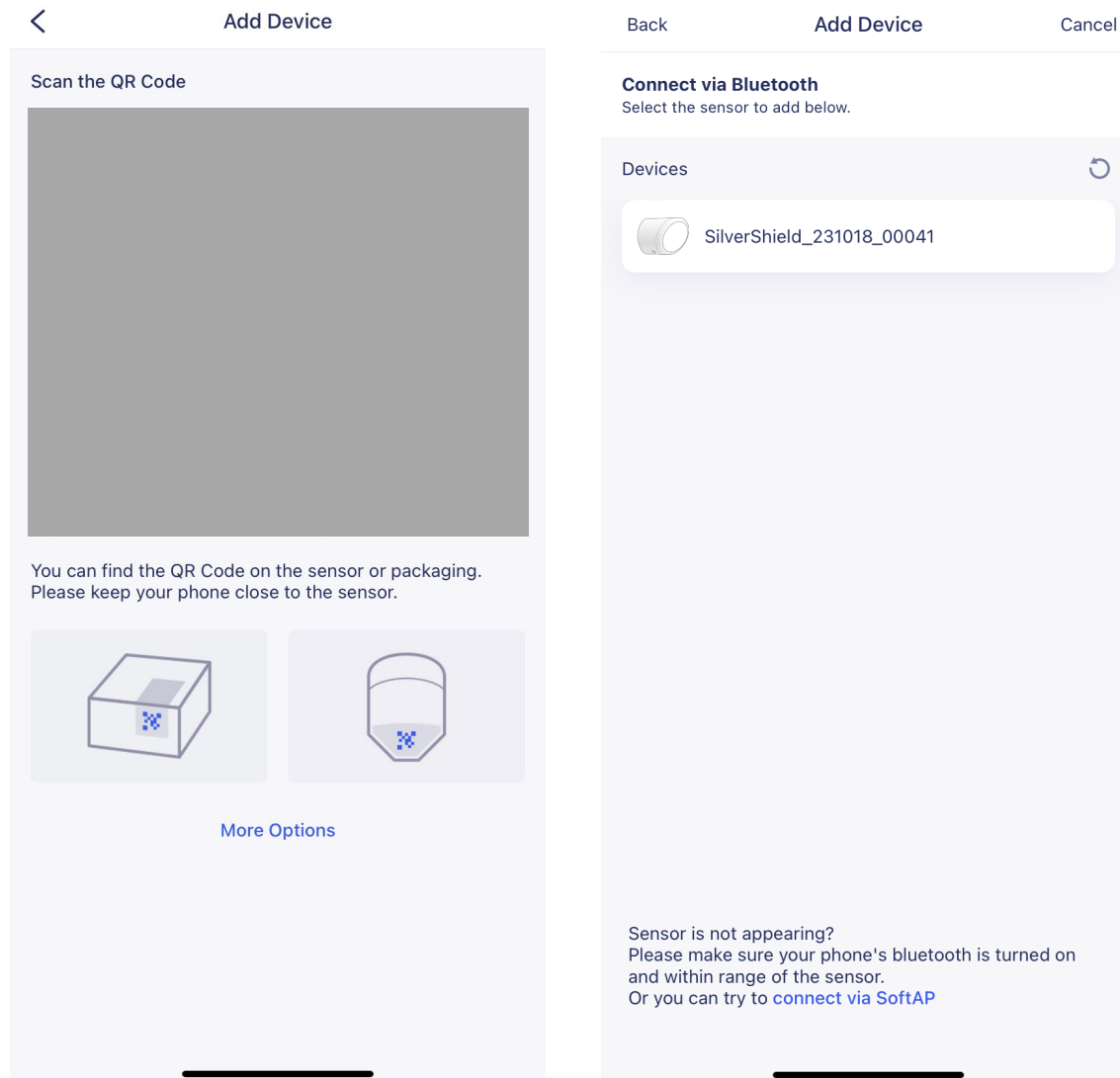
The diagram shows a cylindrical device with a hexagonal base. A small circular button on the front face is labeled 'Reset button' with a dashed line. A small green dot to the right of the button is labeled 'LED' with a dashed line.

☐ The indicator is blinking green slowly

Next

- 1. Plug in the sensor**
Using the power cable and adapter included in the kit
- 2. Check that the LED is blinking green slowly**
If unsure, press and hold the reset button for 3 seconds, then release.
- 3. Press the checkbox, and select *Next***

Installation – Add Device (Cont'd)



4. Add the sensor via Bluetooth or Wi-Fi:

a) Camera method

Scan the QR code on the sensor or its packaging

a) Manual method

- Select *More Options*
- Select the sensor with the corresponding serial number

Installation – Network Configuration

Back Add Device Cancel

Please provide your Wi-Fi SSID and password for the sensor to connect.
Be aware the sensor does not support 5GHz Wi-Fi.

SSID

Password

Connect Sensor To Wi-Fi

1. Select your Wi-Fi SSID from the dropdown
2. Enter your Wi-Fi password
3. Select *Connect Sensor to Wi-Fi*

Installation – Assign Sensor

Back Add Device Cancel

Select A Room Create New Room

Floor

Select a Floor Create New Floor

Floor ID ?
42

Floor Label ?
Katrina Home

Room ID ?
1

Room Label ?
Katrina Room

Sensor Name
Katrina Sensor

Save and Continue

Assigning a sensor associates the device with a specific location to detect falls, presence, and movement.

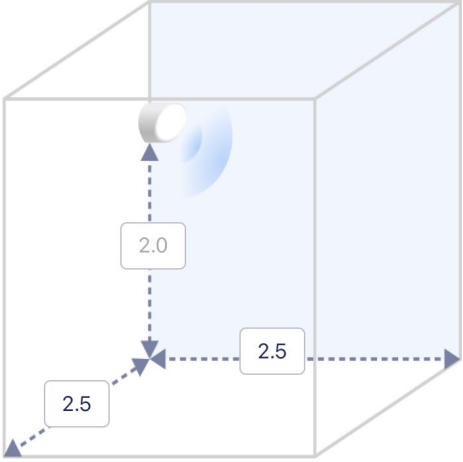
1. **Create a Floor** – allows you to organize and manage homes on the account more efficiently. The floor can have multiple rooms/sensors
 - a) Fill out the *Floor ID* – this must be a #
 - b) Fill out the *Floor Label* – this can be a name or number
2. **Create a Room** – a designated area in the home with a single sensor
 - a) Fill out the *Room ID* – this must be a #
 - b) Fill out the *Room Label* – this can be a name or number
3. **Sensor Name**
You may enter a sensor name here.

Installation – Mount Sensor and Calibrate

Back Add Device Cancel

Please follow the instructions in the user guide to install the device and provide the calibration parameters below.

To optimize sensor accuracy, please enter:
1. Detection area or room dimensions (Maximum: 6.0 m x 6.0 m).
2. Sensor height (Range: 2.0 m - 3.5 m).



Save and Finish

1. Clean the wall

Gently wipe down the area of the wall with rubbing alcohol where you wish to install the sensor

2. Position and place the sensor at 2.0 m height or higher

Peel off the sensor's adhesive backing, then firmly press the sensor against the corner of the wall. Ensure the front face of the sensor is 30°

3. Enter room calibration dimensions

Enter the room width and height (meters) into the App

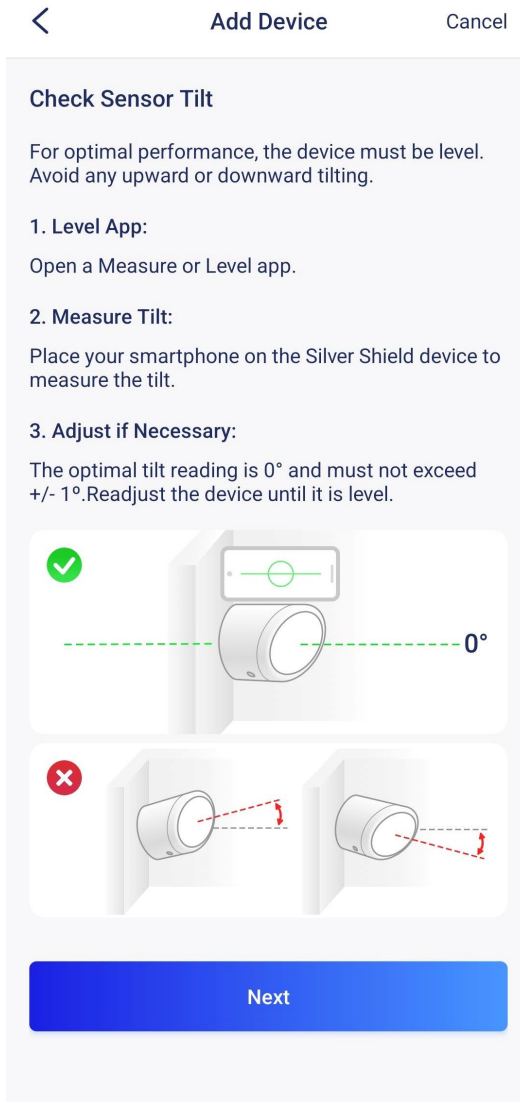
4. Select *Save and Finish*



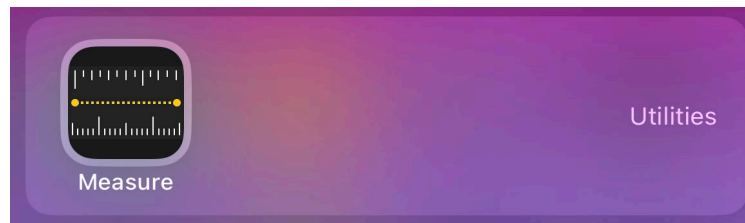
For the greatest range and accuracy, install the module:

- In the room corner that has a **clear line of sight** of the entire room (i.e. not blocked by furniture)
- Install in a corner **across the door** – allows for easier capture of targets entering/exiting the room for presence tracking
- With the front face of the sensor secured at a **30° angle**

Installation – Check Sensor Angle

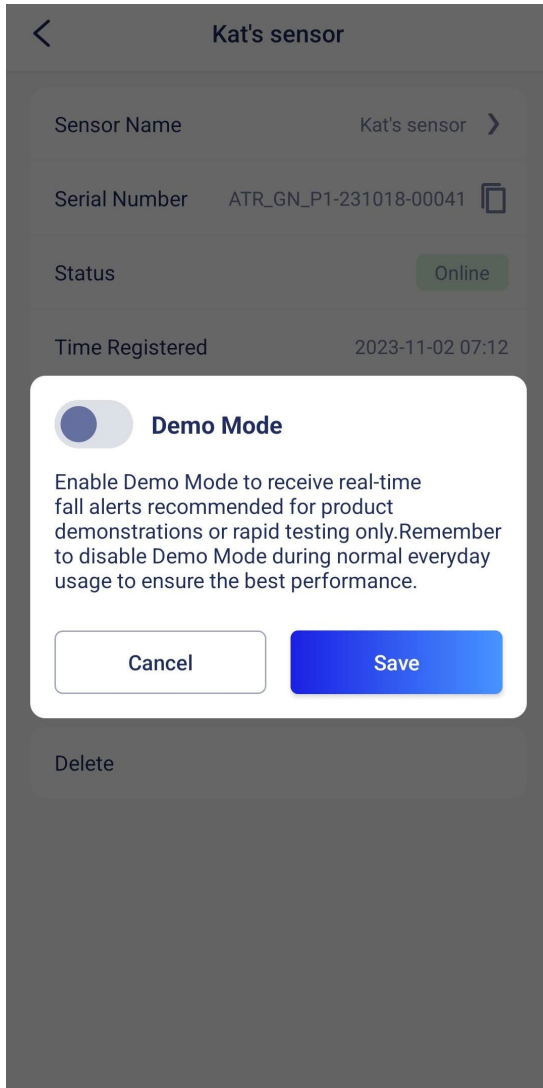


1. Open a measurement app on your smartphone
 - **iOS:** Measure
 - **Android:** Bubble Level
2. Place your phone flat onto the Silver Shield sensor face
3. The angle should be 30 degrees
4. Please adjust sensor until the angle is at 30 degrees



**Note: This is a temporary step – upcoming production units will have a built-in angle sensor.*

Demo Mode (Optional)



The screenshot shows a mobile app interface for a sensor named 'Kat's sensor'. The sensor is online and was registered on 2023-11-02 at 07:12. A modal dialog is open to toggle 'Demo Mode'. The toggle is currently off. Below the toggle, there is explanatory text about the mode's purpose and a warning to disable it for normal use. At the bottom of the modal are 'Cancel' and 'Save' buttons. Below the modal, a 'Delete' button is visible.

Kat's sensor

Sensor Name: Kat's sensor

Serial Number: ATR_GN_P1-231018-00041

Status: Online

Time Registered: 2023-11-02 07:12

☐ **Demo Mode**

Enable Demo Mode to receive real-time fall alerts recommended for product demonstrations or rapid testing only. Remember to disable Demo Mode during normal everyday usage to ensure the best performance.

Cancel Save

Delete

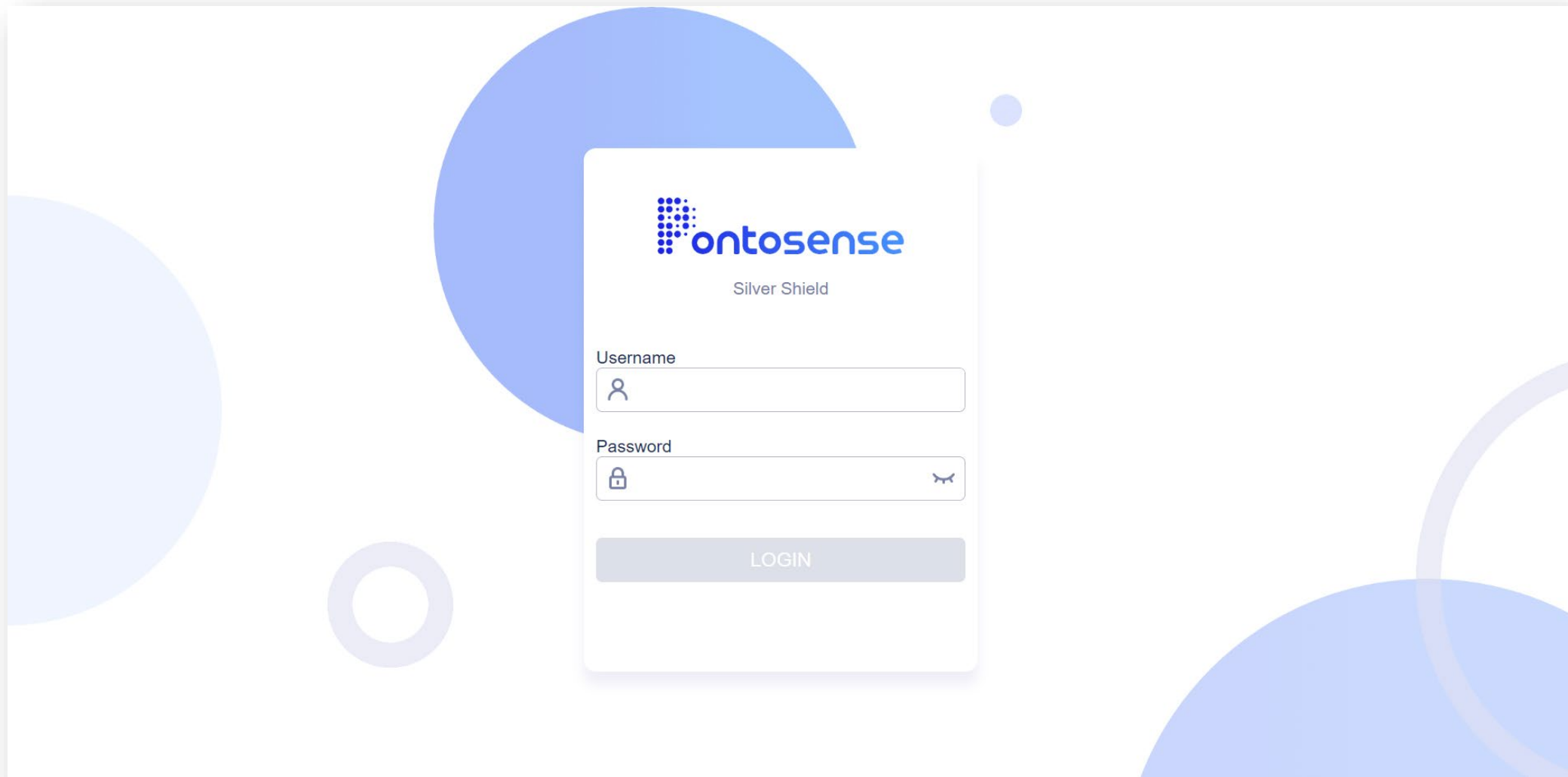
Improved algorithm reports falls within 90 seconds to give our AI more time to evaluate movements and differentiate falls from other actions with greater accuracy.

If needed, we've introduced **Demo Mode** – with this turned on, falls are reported in real time.

We recommend you keep this **off** for everyday use.

To access this setting: *Settings > Sensor Management > [Select sensor] > Demo Mode*

Silver Shield App Features – Demo



The image shows a login screen for the Silver Shield app. The background is white with large, light blue abstract shapes. In the center is a white login card with a blue shadow. The card features the 'ontosense' logo at the top, followed by the text 'Silver Shield'. Below this are two input fields: 'Username' with a person icon and 'Password' with a lock icon and a toggle for visibility. A grey 'LOGIN' button is at the bottom of the card.

ontosense

Silver Shield

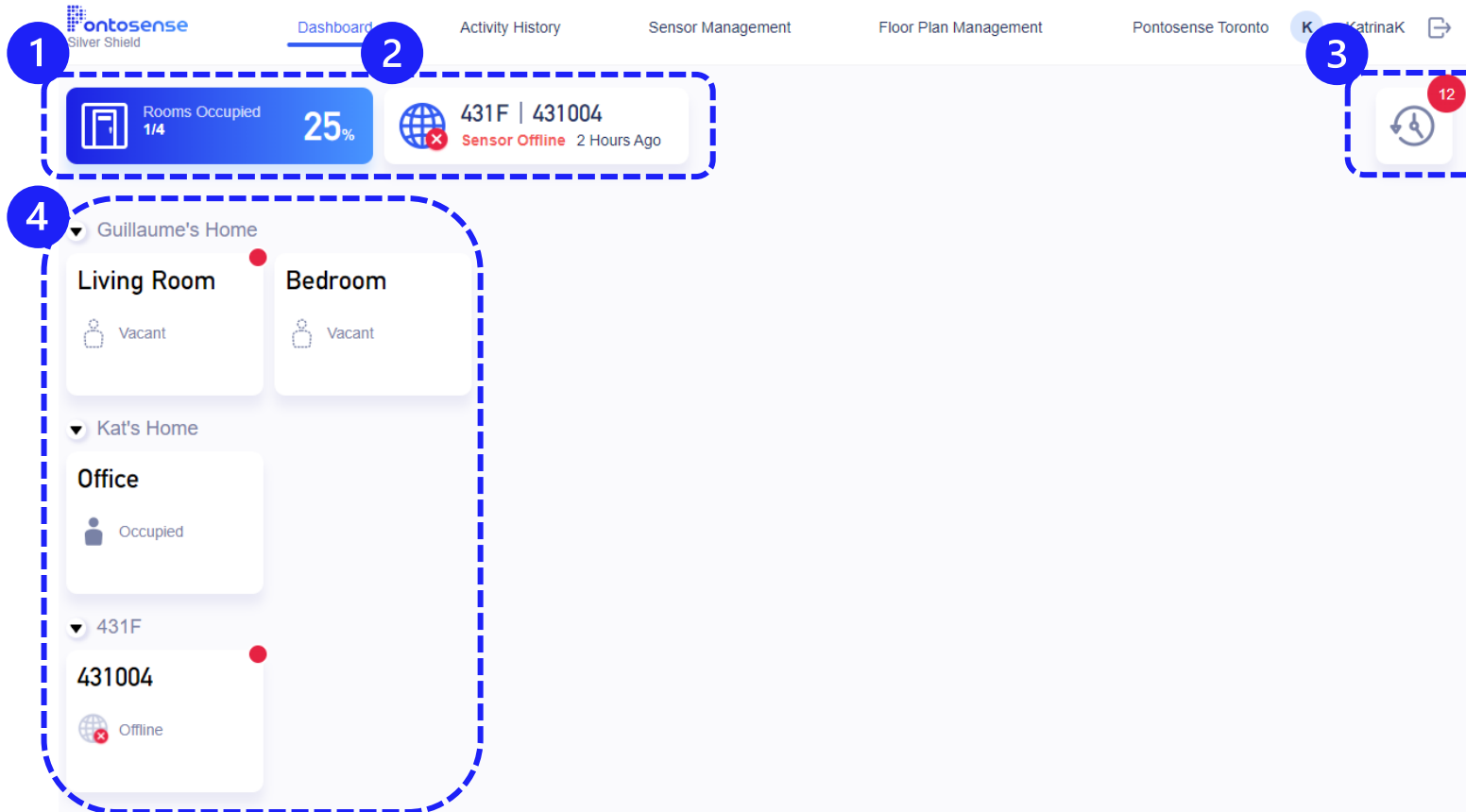
Username

Password

LOGIN

Silver Shield App Features – Home Page

The Home Page gives you an overview of room occupancy, sensor availability, and falls detected across all rooms connected to your organization's sandbox.



1) Rooms Occupied

Shows percentage of rooms currently occupied. Clicking on this will go into detail of which rooms are occupied, and which are vacant.

2) Offline Alert

Flags if and which sensor(s) have disconnected from the cloud (i.e. power, lost Wi-Fi)

3) Fall History

Shows organization-wide fall history across all rooms. Red flag notes number of falls that have not been reviewed by an admin.

4) Rooms

At a glance, will show which room(s) are occupied/vacant. Red notification alerts if a fall has been detected as needs to be reviewed, or if the sensor has disconnected.

Silver Shield App Features – Activity History

The Activity History page allows you to search for a room's occupancy and fall history over a given timespan.



1) Search Panel

Allows you to select which room and timespan you wish to review.

2) Activity Summary

Provides a high-level summary of the number of times the room has been occupied, falls have been detected, and time offline for the selected room.

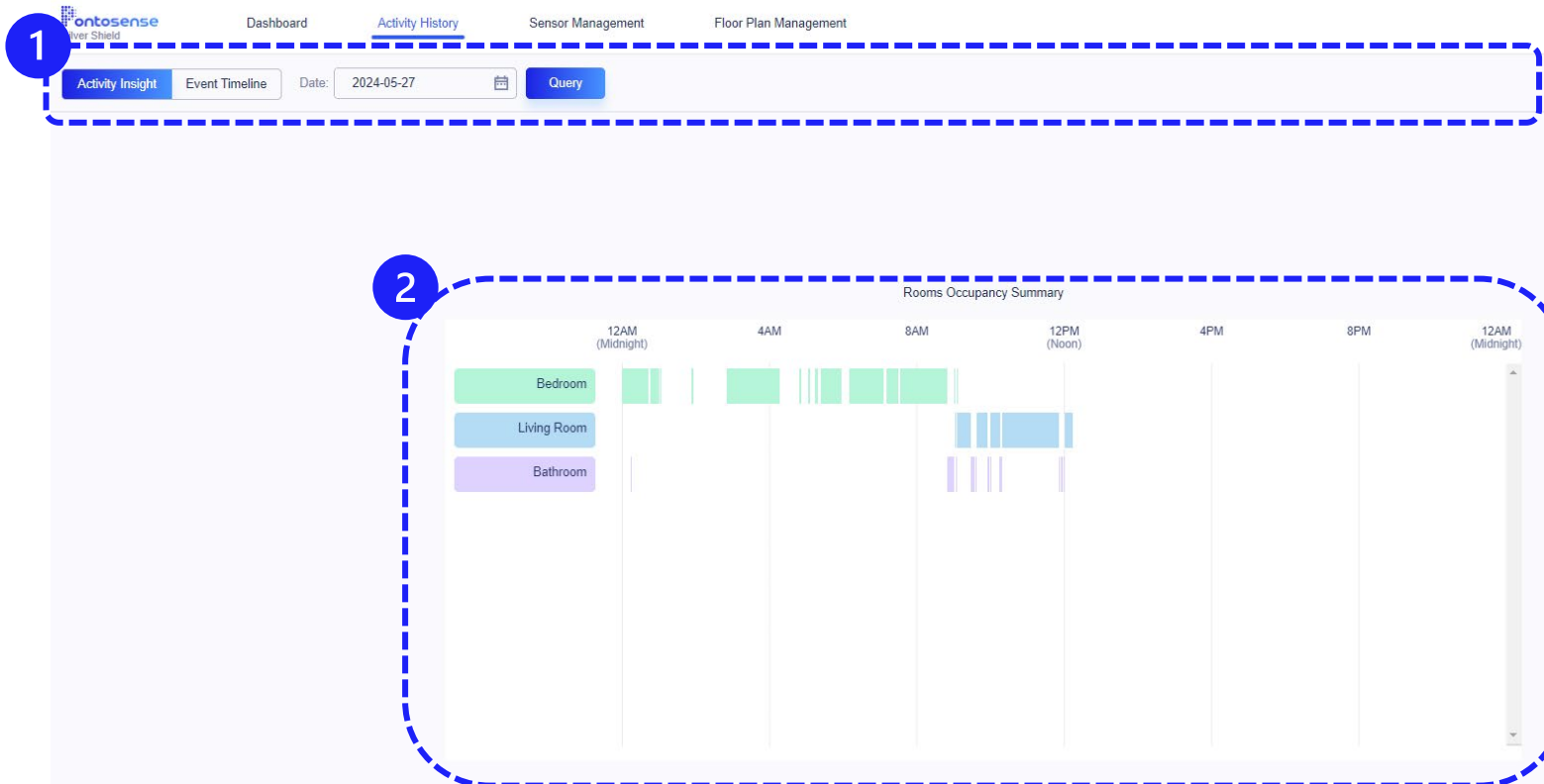
3) Activity Timeline

Shows a full timeline of activity in the room, including exact date, time, and duration of an activity.

Please note: This view is currently not available in the Mobile App.

Silver Shield App Features – Event Timeline

The Event Timeline page gives you a visual overview of occupancy across the home



1) Search Panel

Select the date you wish to view the summary

2) Activity Summary

Provides a visual overview of occupancy on a specific floor

Silver Shield App Features – Sensor Management

The Sensor Management Page gives you an overview of all Silver Shield modules connected to your organization, and allows you to edit its name, room, calibrations, and more.

The screenshot shows the 'Sensor Management' page in the Silver Shield app. The top navigation bar includes 'Dashboard', 'Activity History', 'Sensor Management' (selected), 'Floor Plan Management', and 'Pontosense Toronto'. The user 'KatrinaK' is logged in. Callout 1 points to the search panel with filters for 'Unassigned' and 'Uncalibrated', and search fields for 'Sensor S/N' and 'Sensor name'. Callout 2 points to the 'Advanced Options' dropdown. Callout 3 points to the table of sensors.

Serial Number	Sensor Name	Status	Time Registered	Firmware	Affiliated Room	Calibration Configuration	Actions
ATR_GN_P1-231018-00018	Guillaume	Online	2023-11-02 06:12:25	0.2.3	Guillaume's Home-Bedroom (1:2)	Default	
ATR_GN_P1-231018-00041	KatTest_Den	Online	2023-11-02 06:12:25	0.2.3	Kat's Home-Office (42:16)	Customized	
ATR_GN_P1-231018-00011	Guillaume Living Room	Online	2023-10-23 09:12:25	0.2.3	Guillaume's Home-Living Room (1:1)	Customized	
ATR_GN_P1-231018-00012	Test-Sensor	Offline	2023-10-23 09:12:25	0.2.3	431F-431004 (431:4)	Customized	

1) Search Panel

Allows you to search or select a specific sensor you wish to edit.

2) Advanced Options

Allows you to update multiple sensor's firmware in bulk if not on the most up-to-date version.

3) Sensor Information

Allows you to view sensor serial number, firmware version and status. Also allows you to edit the sensor name, affiliated room and calibration.

You may also delete a sensor however, this also deletes all sensor history as well.

Silver Shield App Features – Floor/Room Management

The Floor/Room Management Page gives you an overview of all rooms and floors created by your organization and allows you to edit their names and assigned sensors.

1

2

3

Room Label	Room ID	Affiliated Floor	Time Created	Assigned Sensor	Actions
431004	4	431F(ID:431)	2024-02-07 10:45:30	Test-Sensor (ATR_GN_P1-231018-00012)	
Bedroom	2	Guillaume's Home(ID: 1)	2024-01-29 22:53:07	Guillaume (ATR_GN_P1-231018-00018)	
Office	16	Kat's Home(ID:42)	2024-01-25 09:15:08	KatTest_Den (ATR_GN_P1-231018-00041)	
Living Room	1	Guillaume's Home(ID: 1)	2024-01-05 12:55:28	Guillaume Living Room (ATR_GN_P1-231018-00011)	

1) Room/Floor Search

Allows you to toggle between room and floor searches.

2) Create New Room/Floor

Allows you to create a new room or floor to assign sensors to

3) Room/Floor Information

Allows you to review and edit existing room or floor information in your organization.

You may also delete a room or floor however; this also deletes room and floor history.

Silver Shield App Features – Room Fall History

The Room Fall History page gives you details of all falls detected in a specific room.

1) Unreviewed Falls

Unreviewed (0)

Mark All as Reviewed

2) Reviewed Falls

Time of Fall	Duration
2024-02-07 13:30:04	36 Seconds
2024-02-07 13:24:55	5 Seconds
2024-02-07 13:24:35	4 Seconds
2024-02-07 13:24:17	5 Seconds
2024-02-07 13:23:40	6 Seconds
2024-02-07 13:21:59	4 Seconds
2024-02-07 13:17:46	1 Minute 18 Seconds
2024-02-07 13:15:57	1 Minute 13 Seconds
2024-02-07 13:15:02	32 Seconds
2024-02-07 13:12:23	39 Seconds

[More](#)

3) Sensor and Room Status

Online

Activity History >

One Person - 26 Min Ago

1) Unreviewed Falls

Here you'll see a list of all falls that haven't been reviewed by an admin yet along with the fall duration and date and time of the fall.

2) Reviewed Falls

Once an admin reviews a fall, the data is moved to this section.

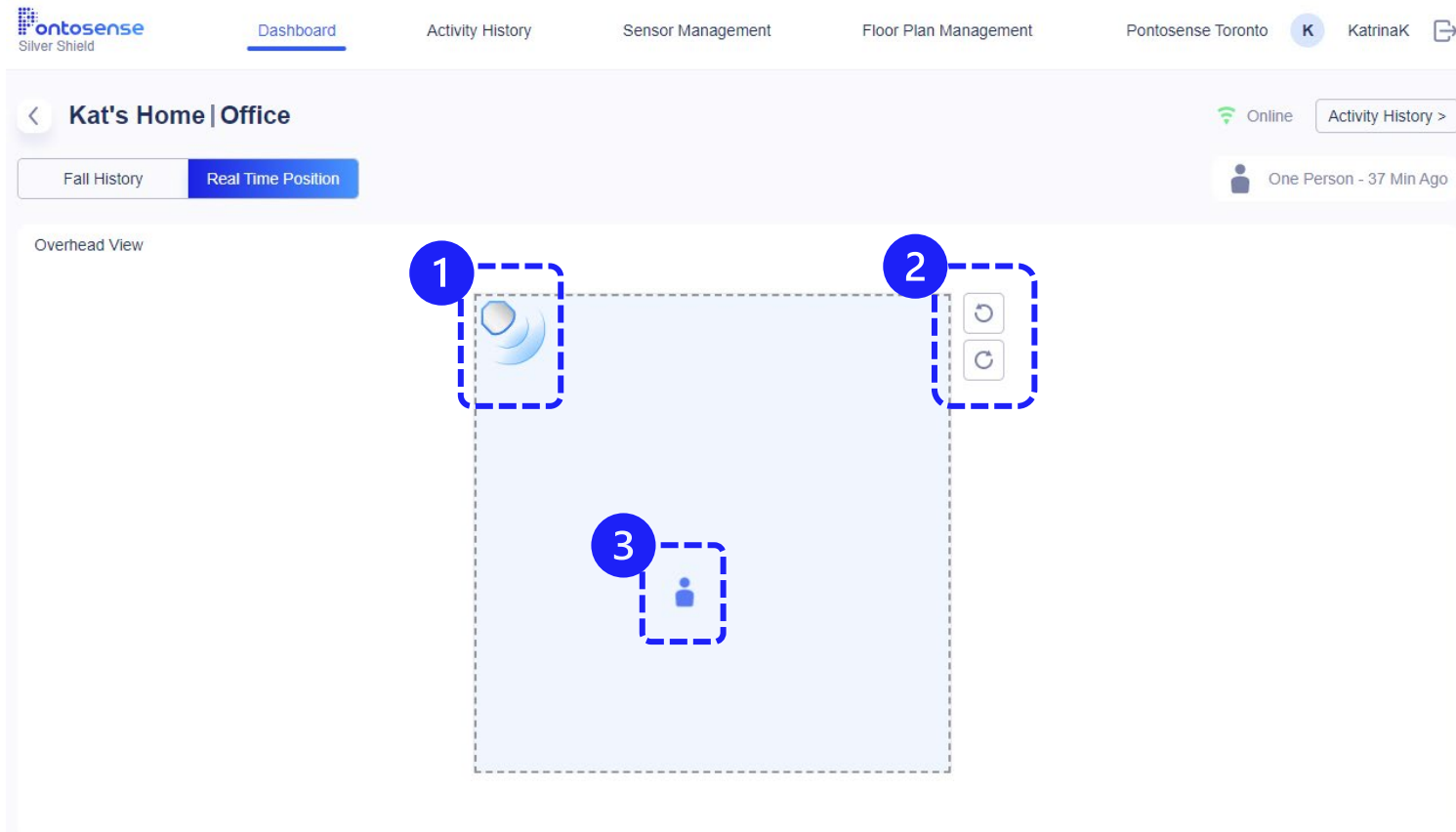
3) Sensor and Room Status

This area shows the online status of the sensor, along with current occupancy (one or multiple) and for how long.

Clicking **Activity History** brings you to the fall/occupancy timeline for this room.

Silver Shield App Features – Room Presence

The Real Time Position page gives you a feed of occupancy, position, and falls in real time.



1) Silver Shield Module

This icon represents the sensor location in the room.

2) Rotate Sensor Location

Using the rotate buttons, you can reposition the sensor to the room corner you prefer.

3) Presence Icon

This icon represents the position of the person detected relative to the sensor. The icon will change if a fall has been detected.

Performance Validation: Presence and Motion

Presence

1. Enter and exit the room to observe the occupancy status transition from vacant to one person.
2. Have two individuals enter the room to prompt the occupancy status change from one person to two people.

Motion Tracking

1. Walk around the room in all directions, moving away and towards the sensor.
2. Sit on a chair to assess sensor responsiveness during a seated position.
3. Perform a squat down to evaluate for potential false positives related to falls.
4. Reach behind furniture to test the sensor's capability to detect movements in various positions.

Performance Validation: Fall Detection

1. Position a cushion or protective surface on the ground.
2. Descend rapidly onto the floor, employing the cushion for safety.
3. Repeat the process in different areas of the room.
4. Perform falls towards the sensor, away from the sensor, and to the sides of the sensor.

Note: *Fall detection is disabled when multiple people are detected in the room. For fall detection testing, ensure you are alone in the detection zone*

Support

If you have any questions, feel free to reach out to our team directly or to support@pontosense.com.

General FAQs: <https://www.pontosense.com/support>

Thank You