DFS-1 Doorway Flow Sensor
Product Overview

Original Document
Version 1

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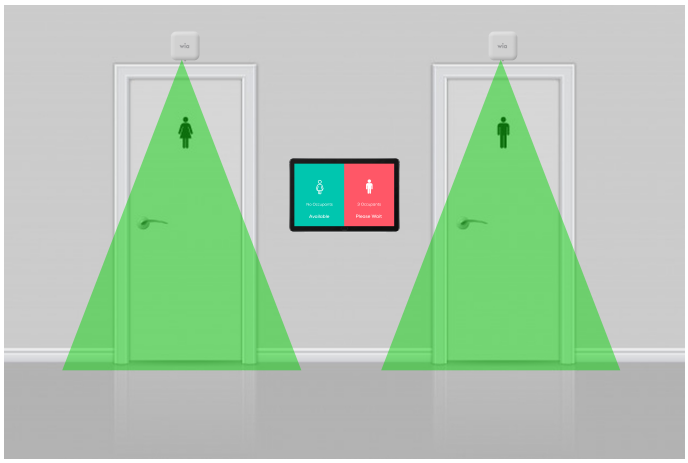
Summary

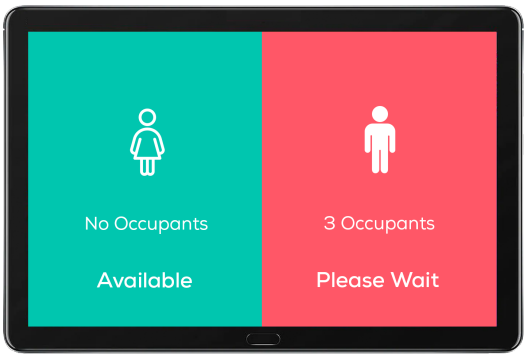
The Wia DFS-1 is a device for measuring the in and out-flow of doors and hallways. The device utilises time-of-flight sensor technology to create virtual zones which are then used to detect people and the direction of their movement. This is then visible on an external display so a person can view the capacity before entering. It is fully anonymous data collection and is GDPR compliant.

Key Features

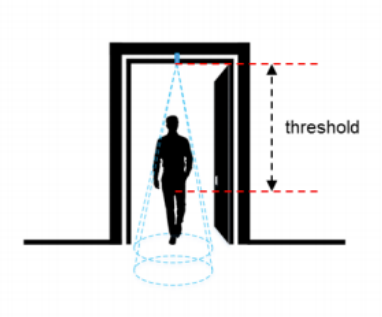
- Wia DFS-1 Sensor
    - Real-time people counting using a state-of-the-art, Time-of-Flight (ToF), laser-ranging sensor.
    - Ultra low power PIR sensor for detecting motion.
    - Measures total count, in and out flow for any single occupant doorway.
    - Quick installation, no wiring required. Just 4 screws, mounts flush against a wall.
    - Secure, private and GDPR compliant with fully anonymous tracking algorithms.
    - Low power, long battery life (batteries not included).
    - USB port for optional dedicated power.
    - Status LED.
    - NB-IoT cellular and Bluetooth connectivity.
    - Wia Cloud ready (more info below).
    - Includes
        - One year Wia Cloud subscription
        - One year connectivity (for NB-IoT model)
        - Wall mount, screws and external power cable.
    - Dimensions: 120mm (L) x 120mm (W) x 70mm (H)
- (Optional) Tablet display for showing real-time occupancy.
- Available in both WiFi and NB-IoT versions.
- Early Q3 2020

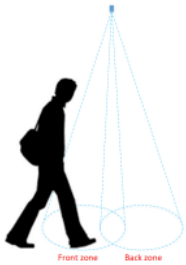
How It Works
This example solution comprises of 2 Wia DFS-1 sensors (one for each restroom) and a shared Wia Display for showing the current occupancy.





The Wia DFS-1 utilises a long-distance ranging Time-of-Flight (ToF) sensor to count people crossing a specific predefined area, like a meeting room entrance or a particular location in a corridor. An algorithm is applied to the data to detect people and the direction they are walking.





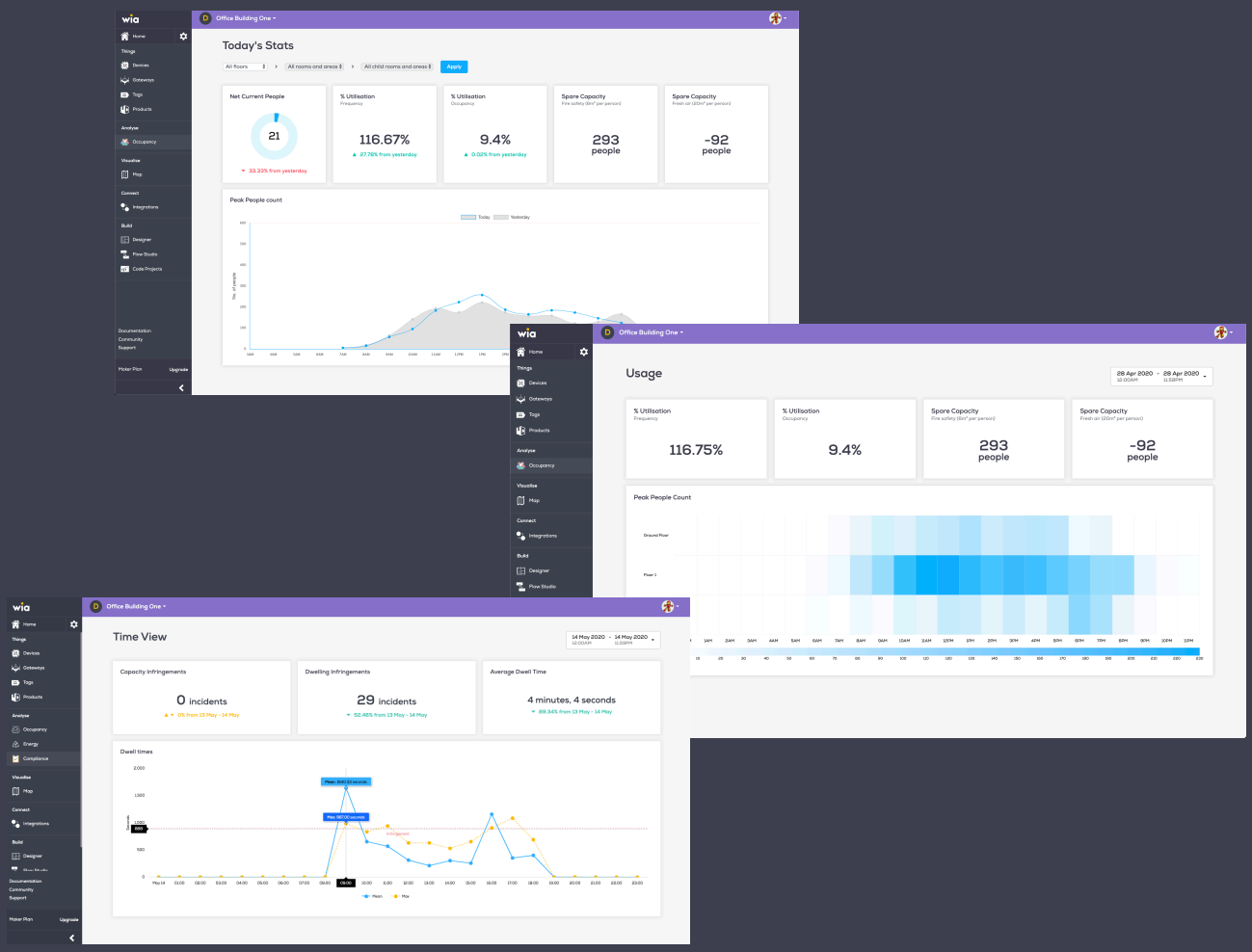
Wia Cloud

The Wia Cloud helps property operators manage their fleet of devices and get rich insights from the data they provide.

Features include:

- Real-time occupancy and space utilisation analytics engine.
- Compliance, physical distancing and capacity monitoring.
- Interactive floor plan designer.
- Device management portal.
- Drag-and-drop workflows for additional functionality such as SMS, voice and more.
- Integrations with any third party service.
- Custom notifications and alerts for any scenario.

For API and documentation visit developers.wia.io.



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