akara

Service Definition Document

May 2024

Akara Cloud Service Overview

Akara Cloud is a room management and analytics platform. It provides a web-based dashboard where hospital administrators and other key management stakeholders can access data and actionable insights on a range of key operational metrics, such as room turnaround, to help them to improve operational efficiency, clinical workflow and quality.

Service features include:

- Real-time reporting and data visualisation
- Automated real-time notifications
- Fully anonymised data collection
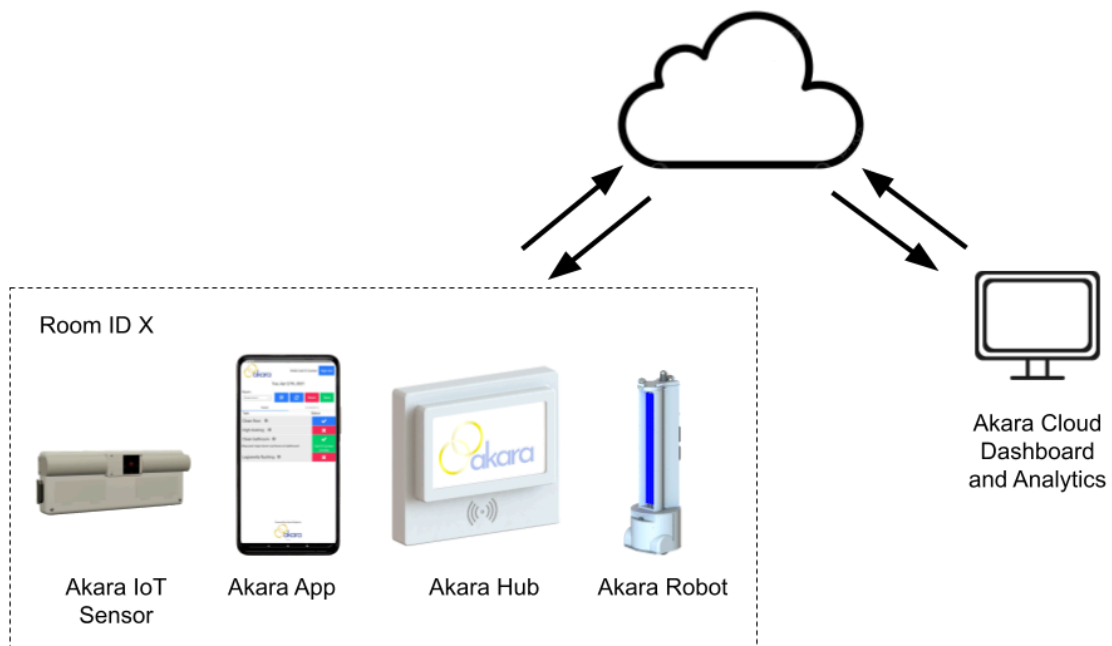- IoT sensing
- AI at the Edge

Service benefits include

- Improved patient flow (less room/bed downtime)
- Fewer delays caused by late staff/patient arrivals
- Shorter room turnaround times
- Free up front-line staff from administrative tasks
- Potential for fall prevention

About Akara

Akara is an award-winning startup and spin-out from Trinity College Dublin. Akara technology is built on more than a decade of cutting edge research in robotic automation, artificial intelligence and biomedical engineering. We are supported by organisations including Digital Health London, Enterprise Ireland, the European Innovation Council and EIT Health.
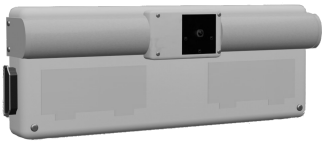
Akara Cloud Platform

Akara Cloud is a web-based room management and analytics platform. Data is collected by Akara devices in rooms and transmitted to a secure cloud-backend. This data may be used in a variety of ways, including:

- Visualised in dashboards when a user logs onto Akara cloud

- Compiled into reports, reducing administrative burden on frontline staff

- Subject to analysis using artificial intelligence and other scientific methods, leading to reporting of key efficiency metrics like room turnaround time

- Configured to automatically send alerts (via text or in app push notifications) in response to events.
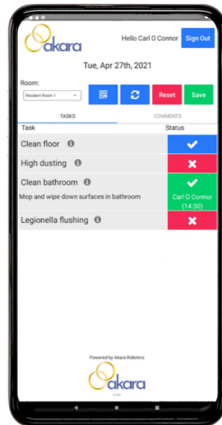

Akara Cloud Supported Hardware Devices

Akara Cloud supports a range of hardware devices. One or more of these devices will typically be provided as part of the service offered by Akara; the number and type of devices used will depend on the specific use case outlined in the contract.

	The Akara IOT Sensor monitors environmental parameters including room occupancy, air quality, ventilation rates and equipment tracking. This helps hospitals boost productivity and generates real-time data to demonstrate compliance with hospital standards.

	The Akara Hub is a wall-mounted computing device that tracks equipment in the room, issues digital notifications to staff, enables authenticated digital sign-off task checklists, and facilitates integration of Akara-approved smart devices with the hospital's building management system (BMS).
	Akara Workflows is a mobile app that boosts staff productivity and quality through digitization of environmental service workflows. They facilitate the collection of real-time data, including completion of cleaning tasks, surgical checklists, legionella flushing and audit feedback.
	The Akara UV robot decontaminates hospital rooms using scientifically proven germ-killing UV light. Unlike other UV disinfection products, the device doesn't require rooms to be evacuated during use. This streamlines workflow and facilitates full room decontamination in more clinical settings.