

AireVitals

A comprehensive remote
monitoring solution

Service definition



Introduction

AireVitals is a comprehensive remote monitoring solution. It uses Lifelight.ai amongst others for accurate remote patient assessment, streamlining data capture via user-friendly forms and secure integration into clinical records. It offers clinicians real-time data for proactive health management, improving patient outcomes, and optimising workflow. It supports integrated or standalone multi-cloud deployment and is applicable across **Health, Social Care, Private and Third Sector operations**.

By providing a comprehensive, secure platform for remote patient assessment and real-time data analysis, AireVitals empowers organisations to deliver more efficient and proactive health management.

Overview

Organisations face increasing pressure to provide efficient, high-quality care while managing complex or chronic conditions remotely. Traditional systems often lack the capacity for continuous, real-time patient data collection and proactive intervention, leading to potential delays and higher costs.

AireVitals provides a solution to these challenges with a comprehensive remote monitoring platform. It enables the rapid collection of key patient observations and uses advanced algorithms for accurate assessment, which are Class IIa Certified, allowing clinical teams to manage patients effectively outside of traditional settings. The system is designed to scale to accommodate large populations.

As a multi-cloud deployable service, AireVitals can be deployed in integrated or standalone environments, enabling end-to-end digital solutions that support remote data capture, clinical record integration, and operational insight.

Key Capabilities

- **Real-Time Monitoring:** Continuous tracking of patient observations, providing instant feedback to healthcare providers and patients.
- **Barrage Pressure Capture:** Advanced algorithms to assess and capture barrage pressures for improved cardiovascular health insights.
- **Patient Data Forms:** Customisable, user-friendly forms for patients to easily input health information, enhancing data collection efficiency.
- **Clinical Record Integration:** Seamless integration of collected data into electronic health records (EHR) for a comprehensive view of patient health.
- **Remote Access:** Secure access for healthcare providers to monitor patient data from anywhere, enabling flexibility in patient care.
- **Alerts & Notifications:** Automated alerts for abnormal readings, ensuring timely intervention and follow-up for at-risk patients.
- **Analytics Dashboard:** An intuitive dashboard for healthcare professionals to visualise trends and patterns in patient blood pressure data.

- **Patient Engagement Tools:** Features to educate patients about their health metrics and encourage proactive health management.
- **Multi-Device Compatibility:** Support for a variety of devices, enabling patients to connect through smartphones, tablets, or dedicated monitoring systems.
- **Data Privacy & Security:** Robust security protocols to safeguard patient data, ensuring compliance with healthcare regulations and maintaining confidentiality.

Benefits

- **Enhanced Patient Engagement:** Accessible data empowers patients to actively manage health and treatment adherence.
- **Streamlined Workflow:** Automated data collection reduces administrative load on providers.
- **Cost-Effective Care:** Early identification prevents complications, reducing hospitalisations and costs.
- **Comprehensive Health Insights:** Aggregated data provides a holistic view for personalised treatment.
- **Scalability:** Solution is designed to accommodate large populations effectively.
- **Accessibility:** Remote monitoring expands care access, especially for underserved areas.
- **Informed Decision-Making:** Real-time data enables evidence-based decisions and effective treatments.
- **Integrated Care Coordination:** Easy data sharing promotes collaboration and continuity of care.
- **Regulatory Compliance:** Patient data is handled securely, adhering to all legal standards.

AireBlocks and AireFrame

AireVitals is designed to work in conjunction with the AireBlocks platform, and AireFrame is a core component of this service, supporting its integrated or standalone multi-cloud deployment. This modular approach ensures flexibility, security, and control while scaling remote monitoring services.

Transform at Speed

AireVitals brings real-time remote monitoring, advanced analytics, and seamless integration to digital health. By combining accurate patient assessment, secure data capture, and proactive alerting, it allows organisations to rapidly deploy solutions that improve patient outcomes, enhance care coordination, and deliver better value for staff and service users.

Implementation

Managing change and requirements

The implementation process begins with initial workshops to support the analysis of user and patient recording deployment requirements and the clinical transformation the platform will bring. We work collaboratively to configure the platform to local needs, ensuring effective knowledge transfer so the local team can manage ongoing maintenance.

Development of solutions

We work with the local team to configure the platform to local needs, ensuring effective knowledge transfer during this process so the local team can manage ongoing maintenance effectively. We then provide testing support and guidance ready for release into the production environment.

Training

We provide on-site and online training as required for local staff to be able to manage new requirements or as refresher training if required.

The aim of the training is to ensure that where a customer requires training in any of these items they understand how the solution can be utilised to meet their workflow and pathway requirements.

Hosting and technical requirements

AireVitals supports multi-cloud deployment, including Public cloud, Private cloud, and Hybrid cloud. It uses segregated resources (docker containers) and supports connection via HSCN, Private network or public sector network, TLS (version 1.2 or above), or IPsec or TLS VPN gateway. The platform is accessible via Modern browsers e.g. Edge, Chrome, Firefox, Safari. There are no constraints in running the service. Blood Pressure readings can only be taken via a mobile app.

APIs and Configuration

- **APIs:** There are a number of APIs across our platform, which allow you to programatically access functionality within each service. The APIs are secure by design, and follow RESTful principles. There are also GraphQL APIs which allow you to fetch discrete data points using selective querying. APIs can be used to access available forms, query data collected through forms, retrieve lists of workflow tasks and create new patient records. It is not possible to delete patient data through the APIs, you are able to withdraw information, but it cannot be permanently delete for audit purposes.
- **API Documentation:** Made available dynamically through Open API (also known as Swagger) and HTML product specific documentation sites.
- **Self-Administration:** Authorised users can self-administer the configuration settings for their organisation and their local integration needs.
- **Accessibility:** WCAG 2.2 AA compliant. We have used both online and offline accessibility testing tools and have installed local accessibility tools on developer workstations.

Support

Aire Innovate provides comprehensive technical support for AireVitals following implementation. Our support team is available between 8:30am and 5:30pm, reachable by telephone or email. All support requests are logged and tracked through our JIRA-driven support desk, ensuring timely updates and resolution in line with agreed service level agreements.

Our approach is underpinned by a continuous improvement ethos, with AireBlocks regularly updated to meet evolving requirements and to reflect new needs identified by clients. In addition to technical support, we offer dedicated account management to review system performance, discuss new features, and explore opportunities to extend the use of the platform, ensuring clients can make the most of AireBlocks over time.

About us

Aire Innovate was founded to transform digital innovation in health and care. Drawing on the expertise of our sister company, **Aire Logic**, which has delivered over 1,000 IT projects across national programmes, regional initiatives, ad hoc innovations, and pro bono work, we bring deep knowledge of healthcare systems and digital transformation.

Our low-code platform, **AireBlocks**, allows teams to build, connect, and adapt solutions precisely to their needs. Unlike off-the-shelf software, it supports rapid innovation, flexible scaling across regions, and local configuration, enabling organisations to respond quickly to changing clinical, operational, and regulatory requirements.

Mission & Vision

We empower health and care teams to take control of digital transformation, turning plans into reality, accelerating innovation, and improving outcomes for patients and staff.

Values & Expertise

We focus on meaningful impact, supporting our people, and delivering trusted, reliable solutions. AireBlocks combines secure system integration, tailored workflows, and robust governance to deliver high-quality, scalable healthcare solutions efficiently.