



Solutions for Healthcare

Healthcare Solutions

- Cold Storage Temperature/Condition Monitoring
- Mobile Asset Tracking and Utilization
- Patient Flow and Safety
- Hand Hygiene Monitoring and Compliance
- Equipment Utilization and Maintenance
- Staff Safety and Efficiency
- Infant and Mother Safety Management
- Medication Automation
- Lab Test Specimen and Sample Visibility

The Need

- Avoiding theft and over-investment in the purchase of costly equipment by reducing search times and maximizing the utilization of existing medical equipment/assets.
- Increasing patient and medical personnel safety through real-time location determination and timely access.
- Enhancing patient flow and progress management with accurate time-stamp for increased levels of care service, minimized wait times and balancing personnel load levels.
- Streamlining and enhancing medical billing through sensing and detection of patient's location, procedures, visits by medical personnel and other patient treatment milestones.
- Meeting regulatory compliance requirements pertaining to Hand Hygiene and Environmental Condition Sensing such as refrigeration units' temperature.

AiRISTA develops and delivers a wide range of turn-key solutions incorporating RFID, RTLS, GPS and related technologies that enables real-time management of mobile personnel, assets and resources to government and commercial clients. With our robust and comprehensive Track and Trace solutions, clients realize a reduction in resources, cost and errors while benefiting from increased efficiencies, productivity, safety and revenues.

Solutions Overview

AiRISTA's Unified Visibility Solutions (UVS) were designed to address various needs of the healthcare industry including those of real-time asset/personnel management, improving patient flow, wireless logging and monitoring the conditions of cold-storage units and enhancing adherence to hand hygiene protocols.

Cold-Storage Temperature Monitoring



While healthcare facilities' refrigerator temperature management process is regulated by the Joint Commission, many healthcare providers still rely on their staff to perform manual refrigerator temperature/humidity monitoring and logging daily.

AiRISTA WiFi tags equipped with temperature monitoring sensors are used to capture and log refrigeration units' temperature data. AiRISTA's wireless Temperature Sensor tags provide continuous readings of the inside temperature at predetermined frequencies with accuracies of up to 0.1 degree.

Tags will utilize the existing WiFi infrastructure to track and transmit temperature data in real time for storing, processing and out of range notifications/alerts as provisioned by the hospital to the AiRISTA server.

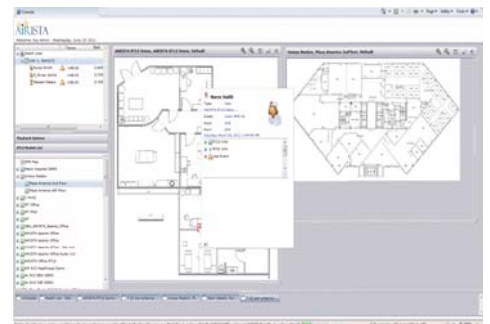
Asset Tracking



Lack of insight into the location and utilization of assets leads to lost revenues, reduced profits, consumer and employee safety risks.

RTLS technologies from AiRISTA augmented with track and trace capabilities and business process automation, offer healthcare clients the most comprehensive enterprise grade asset tracking solution in the marketplace.

AiRISTA's WiFi RTLS Unified Visibility Solution, empowers healthcare providers to not only identify the location but also map and trace the real time movement of all tagged equipment and improve asset utilization by tracking assets with Wi-Fi RFID asset tags. Scheduling routine maintenance, enforcing policies and procedures, and streamlining many time consuming and error-prone processes are among the solution's features and benefits.



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■ Personnel Efficiency and Patient Safety



Patients, medical care personnel, administrative and maintenance staff are all among the beneficiaries of AiRISTA's solutions for the healthcare industry. In addition to enhancing the safety and monitoring of the patients, this ability to sense and obtain real-time location information on medical staff and patients brings about tremendous financial, safety and operational benefits.

AiRISTA's WiFi RTLS solution based on Active WiFi and RFID technologies can be deployed to provide total patient and personnel visibility in the healthcare environments. The key to increased patient throughput and productivity in various departments in healthcare facilities is to effectively streamline the flow of patients through the continuum of care. Utilizing existing Wi-Fi network infrastructure found in most hospitals, data from patients' Wi-Fi RTLS enabled tags are collected by Wi-Fi access points/reference tags. This data may include patient tracking location, moves in departments and departure as well as date and time of medical staff visits within the facilities.

■ Hand Hygiene Compliance



Healthcare facilities have long recognized the practice of hand hygiene as likely the most significant way of preventing the spread of infections. As such, validating and measuring adherence to hand hygiene practice and protocol in healthcare settings is fundamental to the healthcare facility's claimed quality of care, operational efficiencies and reported rate of regulatory compliance.

Hand hygiene dispensers are equipped with AiRISTA's detection device. This device communicates with personnel badges/tags and positively identifies the personnel. Personnel wearing active WiFi RTLS and/or RFID badges are detected and identified upon entering patients' rooms and provided with the opportunity to comply with the institutions' hand hygiene protocol prior to visiting patients. Personnel's hand hygiene compliance or non-compliance is detected and time-stamped event is captured/recorded permanently.



Feature	Benefits
Workflow automation, just in time alert, escalation and notification	Incorporation of business policies/rules for real time detection of abnormalities (eg: safe temperature range deviation) notification escalation and corrective action.
Audit trail and customizable	Store condition (eg: temperature) data permanently. Generate various types of reports to address management & regulatory compliance and auditing needs for the Joint Commission, FDA, CAP, AABB and other agencies instantly.
Web-based user friendly software	Users may access management console from any computer with a browser
Utilizes existing Wi-Fi Infrastructure	Cost effective solution requires no additional hardware for data transmission infrastructure
Use batteries or utilize external power source	May use rechargeable or replaceable batteries or use external power source if available
Low battery notification	Tags report on low-battery conditions to ease the maintenance
Simplified Deployment and minimal IT effort	Small to no impact on the existing Wi-Fi network bandwidth. Minimal effort required from healthcare facility's IT staff.



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