ENTERPRISE VISIBILITY SOLUTIONS
FOR THE REAL-TIME HEALTH SYSTEM

KLAS Category Leader for Real-Time Location Systems—Five Years in a Row
Overview

Healthcare organizations face a variety of challenges, including increasing financial pressure, regulatory mandates, an ongoing need for improved use of staff time, and patient and staff safety concerns.

Many of the problems which contribute to these challenges share a common cause – a lack of “visibility” into the real-time location, status and condition of patients, staff, medical equipment and other mobile assets. An infusion pump that isn’t maintained on time, an open refrigerator with temperature-sensitive goods, suboptimal patient flow within and between departments, or a wandering patient can all have a major impact on a hospital’s overall quality of care.

STANLEY Healthcare brings much-needed solutions to these challenges, increasing visibility within hospitals and delivering the tools to drive operational efficiency.

Why STANLEY Healthcare RTLS?

- **Industry-leading provider of enterprise solutions** that transform safety, security and operational efficiency for more than 5,000 acute care and 12,000 long-term care organizations worldwide.


- **Leverages existing Wi-Fi network** with unparalleled scalability

- **Hospital-wide solution** that fits all healthcare visibility applications

- **Web-based MobileView® software** enables alerting, reporting and viewing location, status and condition data on a variety of devices

- **Room/bay level resolution** and immediate chokepoint detection

- **Open interface** for integration and a variety of integrated solutions with hospital information systems and devices

- **Comprehensive healthcare solutions** and applications

- **Exclusively endorsed** by the American Hospital Association

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**TRACK**
Track current and historical location, status and condition of assets, patients and staff

**ALERT**
Automatically and immediately regarding context-based events that require attention

**MANAGE**
Valuable assets and people through a single web-based user interface with reporting tools and dashboards

**INTEGRATE**
Location and status information into existing hospital systems, such as operating room information systems, maintenance and materials management.
AeroScout RTLS solutions provide visibility into the location, status and condition of assets, patients and staff throughout all departments in the hospital. AeroScout is the chosen solution for many leading hospitals around the world and provides the only Wi-Fi location solution endorsed by the American Hospital Association (AHA).

The AeroScout Visibility Suite includes real-time Asset Management, Temperature and Humidity Monitoring, Patient Flow, Infection Control, and Patient & Staff Safety. These modular and scalable applications all employ AeroScout’s industry leading technology that leverages clients’ existing Wi-Fi infrastructure and integrates with most healthcare IT software systems.

The AeroScout Visibility Suite serves the needs of clinical staff, IT management, materials management, clinical and biomedical engineers, laboratory and pharmacy personnel and others. These solutions ensure regulatory compliance, improve safety, reduce capital and operational expenditures, increase staff efficiency, increase revenue and enhance patient care.
The AeroScout Healthcare Visibility Suite Includes:

**Asset Management**
Current manual processes of locating equipment throughout entire hospital campuses are labor intensive and inefficient. The AeroScout Asset Management solution automates and optimizes these manual processes that most hospitals have for managing and maintaining capital and rental equipment. The solution leverages the hospital’s existing Wi-Fi network for complete hospital-wide visibility, and enables rapid deployment with the lowest total cost of ownership. The Asset Management solution includes a broad range of applications: par level management, asset utilization, shrinkage/theft control, inventory management, preventive maintenance, recall management, rental management and integrations to maintenance management systems and medical devices.

**Temperature and Humidity Monitoring**
Safe temperature ranges for organs, vaccines, blood bags, food and pharmaceuticals are ensured through an automated Wi-Fi monitoring and alerting system. AeroScout’s Wi-Fi temperature tags are simply placed in hospital refrigerators or freezers. In addition, humidity ranges in patient or operating rooms are monitored by AeroScout’s Wi-Fi humidity tags. The solution leverages the hospital’s existing Wi-Fi network, it requires no dedicated sensor network, no hard wires and is easy to install. AeroScout’s MobileView software provides automated temperature and humidity monitoring and alerting, as well as all required logging and reporting data for regulatory compliance.

**Patient Flow**
In the operating room, emergency department, clinics and other departments, knowing the location and status of clinical staff, patients, beds and critical clinical equipment is essential to improving patient care and departmental workflow. Staff can use the location and status to ensure procedures begin on time and decrease patient wait times. The real-time visibility of patients within and between departments and the availability of rooms and beds are easily determined through visibility boards. The location and status data can be integrated into existing software systems to help optimize workflows and increase throughput.

**Infection Control**
Automated Hand Hygiene Compliance Monitoring enables hospitals to reduce hospital acquired infections by tracking and logging hand washing compliance rates of staff members as they interact with patients. The integrated dispenser solution enables automated data collection and reporting on hand washing events based on actual dispensing activity, and is non-disruptive to staff workflows and care processes.
Patient & Staff Safety
Includes a set of applications for Patient Elopement, Staff Duress, Patient Distress, Infant Security and integration to Nurse Call systems:

- **Patient Elopement** – Immediately alert staff members when an at-risk patient exits the ward/building or enters a restricted area by employing a variety of notification methods. AeroScout’s MobileView displays live tracking and the historical path of wandering patients and AeroScout’s Instant Notifier allows for comprehensive workstation alerting with in-depth status information.

- **Patient Distress** – Patients, such as elderly patients, wearing tags with call buttons can trigger panic or distress alerts. Notifications along with the patient’s location are sent to staff and security.

- **Staff Duress** – Staff members carry call-button tags, which can be triggered to alert other staff upon encountering an emergency or in duress situations. The alert is accompanied by the real-time location of the individual requiring assistance.

- **Infant Security** – The AeroScout solution, coupled with small STANLEY Healthcare Hugs® tags that are attached to the ankle of a newborn, protect infants from the threat of abduction. In the event the Hugs tags is cut or removed from the infant without authorization, or the infant is removed from a designated area, the system generates an automatic alert for caregivers and security staff and locks down the designated area. With the addition of Kisses tags for the mothers, the Hugs solution also provides automatic mother/infant matching.

- **Integration to Nurse Call Systems** – The AeroScout solution integrates to existing Nurse Call systems to detect staff presence in patient rooms and automate Nurse Call room status light indicators. It reduces the manual entry of entrance/exit events and provides historical location data of nurses.

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**Tangible Results:**

Average search times went down from 22 minutes to 2 minutes.

Genesis Health System
Solution Components:

Tags and Wi-Fi Devices
AeroScout’s industry-leading Wi-Fi tags are small, rugged wireless devices that can be attached to assets or people to track their location. Each tag sends a small, unique, wireless signal, allowing the AeroScout software to recognize the specific tag and its movements.

The tags have a battery life of up to four years and include advanced features such as a call button, temperature and humidity sensing capabilities, tamper sensing and motion detection. Assets can be tracked either indoors or outdoors, and any Wi-Fi enabled device can be tracked without requiring any software client installation.

Infrastructure
Standard Wi-Fi access points act as “readers,” receiving all AeroScout tag transmissions and forwarding them to a location engine which determines accurate location. This allows hospitals to use their existing Wi-Fi network for their real-time visibility solutions.

AeroScout Exciters are unique chokepoint detection devices, which cause tags within a close range to send an instantaneous alert. This ensures that hospitals can determine when an asset, staff member or patient goes through a doorway, enters / exits a room or facility, or enters a restricted area.

MobileView Software
MobileView is AeroScout’s Web-based enterprise-wide software solution for viewing location, status and condition information from any source (Wi-Fi RFID, Passive RFID, sensors, etc.). The system includes searching capabilities, rules-based alerts, and advanced reporting. MobileView location and status information can be integrated into other hospital management systems and can also be viewed on mobile devices.

MobileView offers a set of healthcare applications such as Temperature & Humidity Monitoring, Inventory Management, Asset Utilization, Par Level Management, Patient & Staff Safety, Patient Flow, Hand Hygiene Monitoring and more. It is designed to support tens of thousands of assets through a modular and scalable architecture with high availability and clustering capabilities. MobileView is also available on handheld devices such as Apple iPad® tablets and VOIP phones.
Did you know:

The average hospital loses as much as 15% of its critical assets every year.¹

51% of nurses report that they spend at least 30 minutes per shift searching for equipment.²

Driving Direct Benefits and ROI

The AeroScout Visibility Suite can deliver ROI to hospitals in less than one year by applying the power of location, status and condition information to improve operations throughout the hospital and across multiple functional areas. The total cost of ownership (TCO) of the solution is reduced by leveraging existing wireless infrastructure. Example benefits of the AeroScout Healthcare Visibility Suite are listed below:

Asset Management
- Improved asset utilization and purchase management resulting in reduced capital expenditures and rental costs
- Increased staff efficiency by automating equipment searches
- Theft and loss reduction through real-time tracking and alerting
- Improved quality of care and increased patient throughput due to improved equipment availability
- Improved regulatory compliance through higher levels of on-time completion of equipment preventive maintenance
- Improved patient safety through successful recall management and timely equipment maintenance

Temperature & Humidity Monitoring
- Improved regulatory compliance with temperature and humidity data collection requirements
- Improved quality of care through constant monitoring of safe temperature and humidity ranges and analysis of logged data to identify trends
- Increased staff efficiency by freeing up caregivers’ time
- Spoilage reduction - reduced time it typically takes to identify and react to problems

Patient & Staff Safety
- Enhanced safety for at-risk patients and clinical staff
- Peace of mind for family members
- Increased independence and freedom of movement for impaired patients
- Protects infants from the threat of abduction
- Ensures the right baby is matched with the right mother

Patient Flow
- Increased revenue and throughput by implementing optimized and automated processes
- Increased staff efficiency and patient satisfaction through reduced wait times

Infection Control
- Supports hospital acquired infection rates reduction initiatives
- Enables Infection Control and Process Improvement staff to focus on compliance, education and data analysis
- Does not disrupt routine patient care workflows

¹ ID TechEx
² Cisco – The High Cost of Nurses Communication Challenges
Tangible Results

The AeroScout solution detected a problem and alerted staff in time to save nearly $40,000 worth of refrigerated items. Most importantly, Florida Hospital was able to prevent any potential impact on patient care.

Florida Hospital

Our asset tracking and management project had an estimated payback period of less than nine months. More importantly, AeroScout applications help staff find equipment more quickly and easily, providing them with additional time to care for patients.

Oregon Health & Science University

About STANLEY Healthcare

STANLEY Healthcare provides over 5,000 acute care hospitals and 12,000 long-term care organizations with enterprise solutions that transform safety, security and operational efficiency. The STANLEY Healthcare solution set enables customers to achieve organizational excellence and superior care in five critical areas: Patient Safety, Security & Protection, Environmental Monitoring, Clinical Operations & Workflow and Supply Chain & Asset Management. These solutions are complemented by consulting, training, implementation and integration services. STANLEY Healthcare is proud to be part of Stanley Black & Decker, Inc. For more information, visit www.stanleyhealthcare.com.