STANLEY
Healthcare

Solution Overview:

Asset Management

Reduces Capital and Operational Costs, Improves Staff Efficiency, Increases Equipment Utilization

Healthcare Challenges

- Hundreds of hours spent searching for equipment
- Up to 15% of high-value equipment lost, stolen or misplaced in a given year
- Poor equipment utilization, often below 40%
- Inefficient processes for managing PAR levels and disinfecting/sterilizing equipment
- Fragmented information and systems that complicate enterprise reporting and regulatory compliance
- Unnecessary equipment purchases and rentals with fees for late returns
- Delays in patient care while clinicians wait for equipment to arrive

Solution

STANLEY Healthcare's Asset Management solution provides a cost-effective way to continuously monitor and proactively manage the location, status and condition of all assets across the enterprise in real time. The solution automates manual processes for managing capital and rented equipment and other assets. It also offers powerful visual analytics that deliver entirely new levels of operational insights for immediate action, historical views and trend analysis.

The Asset Management solution components include:

- STANLEY Healthcare MobileView® Visibility and Analytics Platform
- For **active** RFID asset management
    - STANLEY Healthcare's AeroScout® Wi-Fi Tags
    - Location Engine
    - Hospital's Wi-Fi Infrastructure
- For **passive** RFID asset management
    - Impinj ItemSense® Software
    - RAIN RFID Tags
    - Impinj RAIN RFID Readers

Benefits

- Improves asset utilization and purchase management, resulting in reduced capital expenditures and rental costs
- Increases staff efficiency by automating equipment searches
- Improves operational decision making and material management workflow optimization through advanced visual analytics
- Reduces theft and loss through real-time asset tracking and alerting
- Improves quality of care and increases patient throughput due to improved equipment availability
- Reduces total cost of ownership (TCO) by leveraging the hospital's existing wireless infrastructure

Use Cases

Hospitals and other healthcare organizations apply STANLEY Healthcare's Asset Management solution to these use cases:

INVENTORY MANAGEMENT

Know the "what" and "where" of all tagged assets—whether owned or rented.

PAR LEVEL MANAGEMENT

Gather and analyze data to establish PAR levels and then automate management against those targets.

SHRINKAGE CONTROL

Implement automated alerts and other tools to prevent loss of assets—including preventing telemetry packs and other small assets from being tossed into laundry or trash chutes.

PREVENTATIVE MAINTENANCE

Expedite asset retrieval for PMs to ensure compliance with regulatory requirements and safety.

RECALL MANAGEMENT

Immediately locate and remove recalled equipment to facilitate patient safety and regulatory compliance.

RENTAL MANAGEMENT

Track rental equipment to ensure assets are returned on time and analyze utilization data to optimize the balance between capital and rental equipment—significantly lowering operational costs.

ORDER FULFILLMENT

Quickly find available assets for order requests or proactively deliver equipment based on anticipated needs to improve availability of clinical equipment and ensure devices are properly cleaned for patient care.

How It Works

Wireless tags are attached to mobile equipment—from infusion pumps, defibrillators, portable X-ray equipment, beds and wheelchairs to telemetry packs. The tags periodically report their location (at customizable intervals) over the Wi-Fi network or through the RAIN RFID readers for passive tags. Active tag batteries are replaceable and last for several years. A location engine collects tag signals received by all access points or readers that hear a tag when it transmits. That information is used to determine the location of the tagged assets—and that location data is transmitted to the MobileView software.

Real Results

- **$1.1 Million saved** due to avoiding equipment loss and replacement costs
- **Initially saved $250,000** by avoiding the purchase of more infusion pumps
- **66% reduction in delays** of patient care due to increased pump availability
- **$42,000 savings per year** by reducing unnecessary rental costs of specialty beds
- **100% of monthly infusion pump preventive maintenance** performed in less than a week
- **Reduced equipment search time to under 2 minutes**—a 90% improvement in overall search times

Wireless, battery-powered RTLS tags are available in varied form factors & functions

RAIN RFID (passive) tags are ideal for tagging smaller, mobile assets

VISUAL CONTROLS

MobileView provides a graphical user interface and rules/event engine to process incoming tag data, as well as reporting tools and integration capabilities for alerting users via third-party information systems or communication devices. Equipment status (e.g., available, clean, soiled) and location are tracked to help staff locate equipment and managers understand utilization rates. Asset status can automatically change when the asset enters a certain area (e.g., in a soiled or clean utility room, or in SPD). Alerts can also be generated when staff presses the tag call button, such as identifying when an asset requires maintenance.

INTEGRATIONS

By combining RTLS with integrations to CMMS, ORIS, Infusion Management solutions and communication devices—and sharing information bidirectionally—hospitals can achieve complete visibility into equipment distribution, utilization and allocation. Integrations also aid in tracking maintenance and recalls.

When medical devices are fully integrated with MobileView, the platform displays more than just an asset's location. In the case of infusion pumps, it also updates the device's status (e.g., available, on/off, in-use). This allows staff to quickly locate the nearest available pump or skip in-use pumps during a preventive maintenance sweep—improving workflow, device utilization and staff efficiency.

When MobileView and CMMS are integrated, current asset location automatically updates in the CMMS. Users can even launch a pop-up map display from within the CMMS system. Directly from the CMMS, users can commission tags to assets and route alerts from MobileView (e.g., "device requires repair"). Integrating these systems keeps pertinent information consistent, eliminates duplicate work and improves accuracy of inventory information in MobileView and the CMMS.

With location tracking information consistently updated in MobileView and transferred to CMMS, time-stamped location data is visible in asset and work order records. Technicians can rapidly locate the asset in need of service. Whether to perform preventive maintenance or address a recall, finding assets fast improves both efficiency and safety.
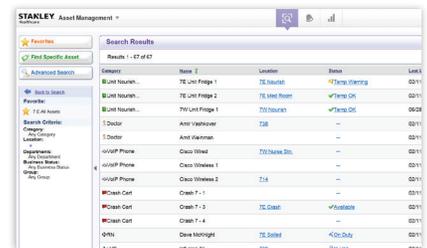
ANALYTICS

Transforming complex data into easy-to-understand visual information, the Asset Management solution provides powerful visual analytics to drive better operational decision making, identify areas for process improvement and apply predictive analytics to anticipate future asset needs. Available on premise or through a cloud-based subscription, MobileView Analytics provides access to a variety of management dashboards, including:

- Real-Time Inventory Status
- Asset Location History
- Real-Time PAR Level Status
- Historical PAR Level Analysis
- Asset Utilization History
- Assets Requiring Attention
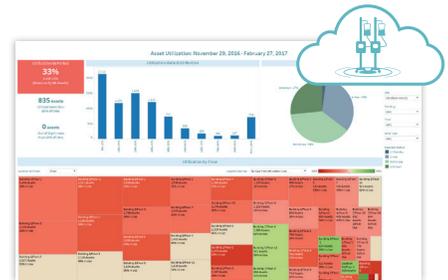- Rental Asset Usage
- Asset Alert analytics

Map View provides location-based context for asset availability and current state

Single, filterable list of all assets (e.g., show me all available infusion pumps)

MobileView Analytics: advanced business intelligence tool to understand how well current PAR level practices are performing and highlight areas for improvement

Gain a deeper understanding of the asset utilization across the facility and over time

Solution Highlights

- Leverages existing Wi-Fi network for hospital wide-visibility of equipment location, condition and status

- Incorporates RAIN RFID technology to monitor small, mobile assets or lower-value equipment

- Displays hospital map views of specific assets or groups of assets from Web-based application and handheld devices

- Intelligent alerting capabilities provide real-time, contextual awareness

- Through MobileView Analytics, provides visual dashboards for real-time and long-term performance and process improvement

- Open architecture and flexible API allow for integrations to CMMS, medical devices, VoIP phones and other existing systems

An Enterprise Investment

MobileView is a unified enterprise platform that provides a broad range of advantages: Visual analytics. Interoperability. Scalability. Lowest cost of ownership.

Asset Management is just one of the applications that MobileView powers. The platform also supports solutions for Environmental Monitoring, Infant Protection, Patient Flow, Staff Protection and Workflow, and Hand Hygiene Compliance Monitoring.

Learn more at **www.stanleyhealthcare.com**.

Real-time alerts are sent to PCs and mobile devices when assets egress, change in status or go above/below PAR level

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.**

STANLEY®
Healthcare

Phone: +1-888-622-6992

North America: stanleyhealthcare@sbdinc.com

Latin America: stanleyhealthcare-latam@sbdinc.com

Middle East: stanleyhealthcare-MEA@sbdinc.com

Asia Pacific: stanleyhealthcare-asiapac@sbdinc.com

Europe: shs-uk@sbdinc.com