What Is the Value of Healthcare Instant Enterprise Awareness?
Stanley Healthcare’s comprehensive suite of solutions, with the Cisco wireless infrastructure, reaches across departments to improve optimization and efficiency. It enables staff to monitor assets, supplies, patients, temperature, and humidity through the MobileView enterprise-grade platform (Figure 1).

![Figure 1. Capabilities of the MobileView Platform](image)

What Challenges Do Healthcare Organizations Face?
Hospitals and long-term care communities are complex, dynamic environments. With recent healthcare reform and complicated compliance and regulatory changes, it has become increasingly difficult to manage costs and mitigate risks while maintaining a nurturing environment that improves patient, resident, and staff satisfaction and security.

Many organizations are still manually documenting the location and status of patients, staff, resources, and rooms - an approach that sometimes results in errors and communication delays. With healthcare reform requirements, reimbursement tied directly to quality metrics, reductions in total cost of care, and the anticipated surge in patient volumes, traditional manual approaches are no longer sufficient. Healthcare organizations are now challenged to find new and better ways of managing their operations. To this end, healthcare decision makers are turning to technology for answers on what to do and how to do it.

What Are the Components of the Solution?
The solution comprises several components:

- **Cisco Wireless LAN**
The position of the Stanley Wi-Fi tags is determined by fingerprinting the RF signals detected by the Cisco Wi-Fi network. The Cisco wireless network is central to the solution and brings industry-leading performance and capabilities via a robust suite of access points, controllers, and converged access switches.

- **Cisco Mobility Services Engine**
The Cisco Mobility Services Engine (MSE) aggregates the signal strength data from all wireless controllers and makes the data available to the Stanley services suite. The MSE also provides a rich set of security functions, including Cisco CleanAir®, rogue detection and location, wireless intrusion prevention system (wIPS), wireless location analytics, and wireless attack mitigation.

- **MobileView Application**
The Stanley Healthcare RTLS solution features MobileView, an intuitive, robust, web-based application. MobileView is the industry’s most flexible software platform for enterprise awareness solutions, and enables users to:
  - Track assets with a user-friendly web interface for searching and visualization
  - Issue alerts based on asset movement, location, and usage, through a configurable rules engine
  - Manage system users, assets, and logical zone naming
  - Report on a wide range of functional and real-time asset data
  - Integrate with the full range of third-party systems

- **AeroScout Tags**
AeroScout tags are small, battery-powered, programmable wireless devices that send 802.11-compatible messages at a predefined interval. A variety of tags and tag-mounting options are available to meet the needs of different healthcare use cases. As a differentiator among other Wi-Fi tag providers, all AeroScout tag telemetry information, such as call buttons, temperature and humidity sensors, and exciter-based events, use the Cisco Compatible Extensions standard to communicate effectively on Cisco networks.
Cisco Wireless with the Stanley Healthcare Real-Time Location System (RFID over Wi-Fi)
Delivering Business Intelligence to Healthcare Organizations

Stanley Healthcare Solution Modules
The Stanley Healthcare ecosystem is composed of the solutions shown in Figure 2.

Figure 2. Modules in the Stanley Healthcare Ecosystem

- Infant Protection
- Patient Security/Elopement
- Wander Management
- Staff Security
- Facility Security

- Asset Management
- Supply Chain Management
- Storage Solutions

- OR Patient Flow
- ED Patient Flow
- Clinic Patient Flow
- Staff Workflow

- Fall Management
- Hand Hygiene Monitoring
- E-Call/Wireless Nurse Call

- Supply Chain & Asset Management
- Security & Asset Management
- Clinical Operations & Workflow
- Environmental Monitoring

Optimization, Automation, and Transformation Are Realized Across the Entire Hospital Environment. Benefits include:

- Reduced capital and operational costs of mobile medical and transport equipment: View and automate par-level management and preventive maintenance
- Increased staff efficiency and level of patient care: Optimize clinical workflows and patient wait times
- Ability to track and manage assets: Automate the location, condition, and status of assets
- Automated temperature and humidity monitoring: Automatically record and report within operating rooms, labs, patient rooms, freezers, and refrigerators

Why Stanley RTLS Using Cisco WLAN?
The Cisco and Stanley Healthcare solution provides a powerful and rich set of tools that enable hospitals to manage and optimize the hospital environment and incorporates the technologies of both companies to provide a high level of operational efficiency. The solution has been tested and certified by the Cisco AssureWave program, thus helping ensure that the solution will be reliable, consistent, and highly secure, with zero impact on the performance of the Wi-Fi network. The joint Cisco and Stanley solution includes Cisco UCS® servers hosting the Stanley server-side software. Also, MobileView integrates with Cisco Unified Communications devices to present the data across the healthcare organization.

Figure 3. Stanley Healthcare MobileView

For More Information
http://www.cisco.com/go/healthcare
http://www.stanleyhealthcare.com

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