Solution Overview:

AeroScout® Patient Flow Solution

Enterprise Visibility Improves Patient Satisfaction and Operational Efficiency

Challenges

Emergency Department (ED), Operating Room (OR) and other departments impact a high percentage of a hospital's revenue. In the midst of healthcare reform and economic strain, the need for constant improvement in these departments is paramount to maintain the highest level of patient care, optimal use of resources, and the most efficient workflow.

In these complex environments, caregivers are challenged with efficiently moving patients through the different areas and stages of care. It is essential to know where the patients, staff and equipment are located, as well as understand which rooms are available. These processes require time-consuming documentation and communication, which may result in errors, extended wait times and unnecessary labor costs—ultimately, adversely impacting the quality of care and outcomes, financial stability and staff satisfaction.

Solution

STANLEY Healthcare's Patient Flow solution provides hospital- and clinic-wide visibility to improve patient satisfaction and operational efficiency. By monitoring the status and location of people and resources, it provides data for real-time enterprise awareness and robust business intelligence to measure performance, identify trends and pinpoint opportunities for process improvement. As a part of STANLEY Healthcare's Wi-Fi RTLS platform, the Patient Flow solution offers several options and integrations to expand security, increase patient safety and support efficient workflow.

Benefits

- Improves patient throughput and increases revenue
- Improves patient and family satisfaction with reduced wait times
- Enhances quality of care
- Enhances staff efficiency and productivity through reduced manual processes and improves visibility of patients, staff, equipment and rooms
- Reduces costs through improved utilization of existing resources, capacity and equipment
- Provides business intelligence to drive process improvement and proactive management

The solution features a series of customizable and standard reports that enable hospitals to analyze and optimize patient flow.
How It Works

Upon admission, patients are easily assigned a small, battery-powered Wi-Fi Tag, enabling tracking of their real-time location hospital-wide during their stay. Staff, such as nurses, OR staff, transporters and environmental services, may carry a Wi-Fi Tag or a Wi-Fi device (e.g., VoIP phone). This enables rapid location of colleagues, association of caregivers to patients and rooms, and workflow optimization based on historical data. In addition, by leveraging the facility-wide Wi-Fi network, patients and staff can be located outside the clinic in ancillary units and even outside on campus grounds.

Tags can be mounted on medical devices and equipment to increase the availability of gurneys and wheelchairs for patient transport and improve accessibility of medical and surgical equipment required for procedures. The enhanced visibility and communication improves overall staff efficiency and satisfaction through reduced search and wait times.

STANLEY Healthcare MobileView software provides an intuitive and easy to use at a glance view:

- Floor map or list view of specific departments and the entire facility
- Real-time and historical location of patients, staff and assets
- Status of rooms based on color codes (e.g., available, occupied, requires cleaning, being cleaned)
- Alert indications on outstanding events (e.g., patient leaving department or off the nursing unit)
- Patient status information may also be shared with family members
- User friendly search tool enables sophisticated queries

The AeroScout T2su Tag is a compact staff or patient tag – the Wi-Fi and ultrasound tag can be worn on badge clips, lanyards or wrist bands to provide real-time location data.

AeroScout T3 Tags can be mounted in-room to trigger room events, such as lab draws, patient ready for physician and room availability.
The Patient Flow solution offers a wide variety of automated alerts, which are easily configured through the MobileView interface and triggered in real-time. Alert notification options include e-mail, instant alerts on workstations, text page or message, VoIP phone or badge alert, or other forms of alerts such as integration to departmental specific software (i.e. OR Management and ED Management Information Systems). Examples of Patient Flow alerts include:

- Calls for environmental services to clean room and indications when room is clean
- Absence of equipment required for patient treatment or transport
- Patient moving within (e.g., from OR to PACU) and between departments (ED to ICU)
- Call buttons used to notify staff when a patient is ready for discharge
- Patient call for assistance

The solution features a series of customizable and standard reports that enable hospitals to analyze and optimize patient and staff flow. These reports provide information required for analysis of patient wait times, patient-staff-equipment interaction, patients and staff historical location and room/bed utilization.

With embedded business intelligence tools, MobileView provides standard and customizable dashboards that transform operational data into visual analytics, empowering hospitals to optimize patient throughput and staff flow. In addition, on demand or scheduled reports can drive process improvement initiatives based on actual data—including patient wait times, patient-staff-equipment interactions, patient and staff historical location, room utilization and turnaround times. Ultimately, hospitals can use these tools to identify opportunities to further improve operational efficiency and patient care.
Solution Highlights

• Displays ED, OR, inpatient and clinic map and list views with the location, status and condition of patients, staff, equipment and rooms

• Automated workflow alerts delivered to specific caregivers using a wide variety of communication devices, such as iPad® tablets, VoIP phones, smartphones and handhelds

• Provides department specific location accuracy (e.g., room and bay level) while leveraging existing Wi-Fi network to provide hospital-wide awareness

• Delivers sophisticated reporting and dashboard tools for workflow analysis and optimization, providing business intelligence around wait times, bottlenecks, staff workload, room and resource utilization, patient-staff-equipment interactions and more

• HL7 open architecture and flexible API allows for synergistic integrations to existing systems such as EDIS, ORIS, ADT and capacity management solutions

• MobileView, a unified enterprise platform, provides a broad range of advantages, such as business analytics, interoperability, scalability, lowest cost of ownership and more

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.