

**CASE STUDY:**  
**Piedmont Healthcare**

- Savings of approximately \$510,000 annually
- Annual rental expenses decreased from more than \$100,000 to \$22,000
- Nine percent reduction in maintenance costs
- 43% increase in nurses who felt confident in equipment availability
- Ability to share expensive items like specialty beds across multiple hospitals
- Patients no longer wait for the critical equipment they require (prior wait times were 30 to 60 minutes)
- Significant decrease in the time Nurses and Biomedical Engineering Technicians spend searching for equipment

*"Standardizing the Piedmont RTLS infrastructure on the CenTrak system along with VIZZIA's software platform and process improvement methodologies offers us the opportunity to make the work environment for our clinical staff better, safer and more beneficial for patients."*

– Piedmont Biomedical Executive

## Piedmont Healthcare Leverages RTLS to Standardize Asset Management

### The Situation

Piedmont Healthcare is a rapidly growing regional health system based in Atlanta, serving nearly 2 million patients across Georgia. The enterprise faced several challenges related to its inability to locate mobile medical equipment, including inefficient clinical workflow, low productivity and high equipment costs. Nurses struggled to find equipment and were also concerned that devices would not be available when they were needed for patients. This led to hoarding and hiding assets, which only exacerbated the issue. Piedmont Healthcare did not have a reliable way to measure equipment utilization or determine purchasing needs. With substantial inefficiencies related to moveable medical equipment and its management, equipment shrinkage and rental costs were exceeding \$100,000 annually and growing.

In 2006, Piedmont Healthcare began its journey with Real-Time Location System (RTLS) technology by implementing a passive radio-frequency identification (RFID) system that limited the organization to locating moveable biomedical equipment. However, without insight into its equipment utilization, the organization was unable to properly track and improve distribution processes.

### The Solution

Through the support of VIZZIA Technologies, Piedmont Healthcare identified its asset management challenges and redesigned its processes so that clean and operational mobile medical equipment is always available. While acquiring other hospitals, Piedmont Healthcare made the strategic decision to standardize with CenTrak's Enterprise Location Services™ to ensure maximum benefit across the entire health system.

VIZZIA Technologies manages and maintains Piedmont Healthcare's RTLS technology and provides comprehensive data analytics to change provider utilization behaviors. This knowledge has been transferred to Piedmont's other facilities to help the organization reduce excess asset inventory, decrease rental expenses, improve clinician satisfaction and maximize workflow efficiencies across the enterprise.

### The Benefits

As Piedmont Healthcare continues to grow, standardizing the RTLS platform and optimizing asset management processes across all of its facilities has resulted in significant ROI. Utilizing Enterprise Location Services from CenTrak – in addition to the optimal RTLS software (VIZZION™), training and guidance – Piedmont Healthcare has effectively solved its equipment distribution and maintenance challenges. The organization is saving approximately \$510,000 annually by eliminating lost or stolen equipment, streamlining its equipment fleet, reducing rentals, and decreasing maintenance costs. Piedmont Healthcare now has the ability to share and rent expensive equipment, such as specialty beds, gurneys and wheelchairs, across the health system. The improved asset management has also led to enhanced satisfaction among the nursing staff. Annual surveys showed a 43% increase in nurses who felt confident the equipment distribution process would deliver the equipment they need, when they need it.

# What makes CenTrak Smarter?

**Clinical-Grade Locating™** – CenTrak's Second Generation Infrared (Gen2IR™) delivers certainty-based location data covering rooms, beds, bays, nursing stations, hallway segments and other relevant workflow areas. Rapid location and condition updates reliably capture interactions between equipment, patients and staff within seconds.

**Multiple form factors** – Largest selection of tags including reusable, single use, infant, wander, and staff badges provide options for all types of patients and care environments.

**Multi-Mode Technology** – A unique combination of Wi-Fi, CenTrak's Gen2IR, Low Frequency RF, UHF Active RFID, Bluetooth Low Energy (BLE), and others to future-proof investment and maximize ROI.

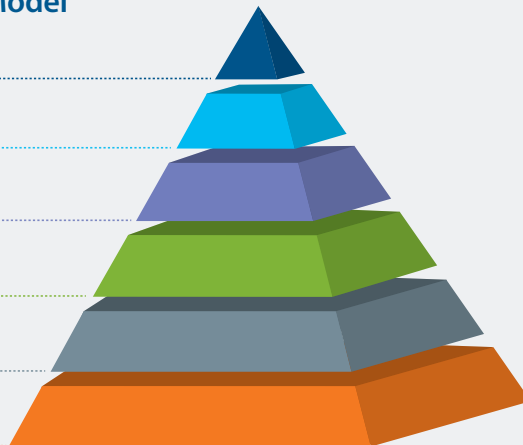
**Easy Installation** – Battery-powered devices are installed easily in patient care areas without the need to close rooms or deploy special infection prevention measures.

**Interoperability** – Open location platform for seamless integration with both existing and new applications including Nurse Call, Electronic Health Records, Capacity Management, Bed Management, Asset Management, Computerized Maintenance Management and Hand Hygiene Compliance

**Reliability** – Ensures critical location, condition and status updates are delivered to the application level. Enterprise-class monitoring provides at-a-glance visibility. Devices and tags are equipped with long-lasting batteries.

## Location Adoption Model

- Application Specific
- Sub-Room
- Clinical-Grade
- Limited Certainty
- Zones
- Presence Detection



- Hand Hygiene
- Capacity Management
- Staff Location
- ED Workflow
- Perioperative Workflow
- Asset Management
- Staff Duress
- Nurse Rounding
- Patient / Infant Safety
- Sterile Processing
- Asset Security
- Asset Tracking
- Wayfinding
- Inventory Management
- Nurse Call Automation
- Contact Tracing

*CenTrak's Enterprise Location Services leverage multiple technologies to maximize utility and ROI.*

## Patient Tags

Patient Tag Mini



newbaby™ Umbilical Tag



31-Day Tags



## Asset Tags



Asset Tag Mini



Asset Tag Micro



Multi-Mode Asset Tag

## Staff Tags



Staff Badge



Duress Badge

## Temperature / Environmental Sensors



Environmental Sensor



Environmental Sensor LCD



For more information please visit our website  
[www.centrak.com](http://www.centrak.com), email us at [marketing@centrak.com](mailto:marketing@centrak.com)  
or call us toll-free at 800-515-2928.

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