



Litum



Real-Time Location Systems for Healthcare Case Studies

Key Challenge






St. Joseph's Guelph, a renowned healthcare and rehabilitation center in Canada, faced critical challenges in enhancing patient safety, ensuring the safety of healthcare staff, and efficiently tracking mobile medical equipment (MME). They sought a solution that could seamlessly integrate into their existing infrastructure to effectively address these diverse needs.





Solution

Litum's end-to-end solution harnessed ultra-wideband (UWB) technology for effective management of patient wandering, staff safety, and asset tracking. Patients were given compact tags, which helped monitor their movements and ensured their safety, with a particular focus on sensitive areas like elevators and exits. For the staff, the system provided a reliable duress alert mechanism with precise location tracking and immediate communication capabilities. Additionally, the asset tracking feature for MME significantly streamlined the availability and management of critical healthcare resources.



Features

-  Real-Time Location Tracking
-  Fall Detection
-  Staff Duress Alerts
-  Low Battery Alerts for Tags
-  Tamper Alerts

-  Gateway and Anchor Drop Alerts
-  Zone Entry and Exit Alerts
-  Elevator and Exit Door Control
-  3rd Party Software Integration



The Results

Litum's solution notably improved patient safety by effectively managing wandering, reducing incidents of patients inadvertently entering risky areas, and supporting their freedom of movement within the center. Additionally, it enhanced staff response times, creating a secure work environment. The integration of MME tracking optimized resource use, improving operational efficiency. The solution's adaptability and seamless integration minimized disruption, collectively creating a safer, more efficient healthcare environment.

Read St. Joseph's Guelph's newsletter to find out about how Litum's solution made a difference.



Key Challenge


St. Joseph's Brantford, a prominent healthcare and rehabilitation center in Canada, faced challenges in managing patient safety and staff security. The center, being the largest long-term care home in the region with 205 beds, needed a sophisticated solution to monitor patients, particularly those with cognitive challenges, who are at risk of wandering. Additionally, ensuring the safety of the staff and maintaining a high quality of care were other key concerns.

Solution

To address these challenges, Litum deployed an end-to-end solution leveraging ultra-wideband (UWB) technology for wander management and staff duress. For patient safety, Litum implemented a wander management system using compact, tamper-proof wristband tags designed to monitor the movements of patients, especially those with cognitive challenges, thus mitigating the risks associated with wandering. In parallel, staff safety was reinforced through the deployment of wearable tags equipped with a distress button, enabling staff to instantly signal for assistance in emergencies.



Features

 Real-Time Location Tracking

 Fall Detection

 Staff Duress Alerts

 Low Battery Alerts for Tags

 Tamper Alerts

 Gateway and Anchor Drop Alerts

 Zone Entry and Exit Alerts

 3rd Party Software Integration



The Results

Litum's deployment led to notable improvements in patient and staff safety. For patients, the system ensured increased safety through continuous, secure monitoring, which also allowed for more nuanced and effective care strategies. This contributed to patient well-being and reduced the need for constant physical supervision, thereby enabling more efficient staff allocation. The introduction of staff duress alerts with precise location tracking drastically decreased emergency response times, contributing to a safer and more secure working environment.

Key Challenge






Izmir City Hospital, a health facility in Turkey, faced the complex challenge of managing and securing a large-scale healthcare environment. With a vast campus comprising various specialized units and 2,000+ beds, the need for an advanced system to ensure infant security, wander management, staff safety, and efficient asset tracking was critical.


Solution

Litum addressed these challenges by deploying an end-to-end solution. A total of 1,500 anchors and gateways were strategically placed across the hospital to facilitate comprehensive coverage. Ultra-wideband (UWB) technology was employed for precise real-time tracking and alert systems, focusing on infant security, wander management, and staff duress scenarios. Concurrently, a combination of active and passive RFID technology was strategically utilized for efficient asset tracking, managing the extensive inventory of approximately 43,000 assets.




Features

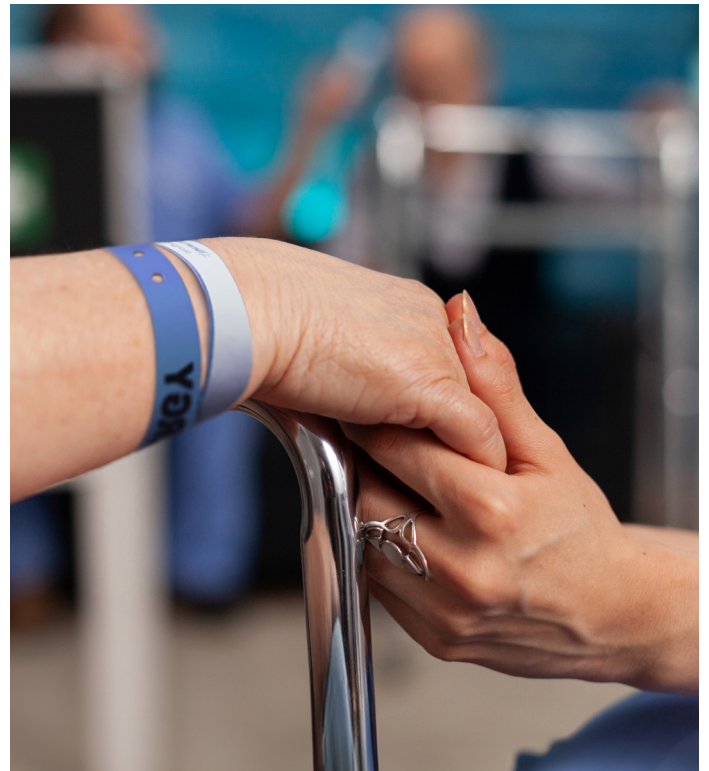
-  Real-Time Location Tracking
-  Staff Duress Alerts
-  Fall Detection and Immobility Alerts
-  Out of Sight Alerts for Wander Management
-  Gateway and Anchor Drop Alerts

 Low Battery and Tamper Alerts for Tags

 Zone Entry and Exit Alerts

 Zone Presence Alerts

 Elevator and Exit Door Control



The Results

Litum's deployment enhanced both operational efficiency and security at Izmir City Hospital. The system's real-time tracking capabilities have greatly improved asset management and utilization. Notably, the implementation of staff duress alerts contributed to creating a safer working environment, ensuring rapid response in emergency situations. Patient safety has also seen substantial improvements thanks to the integration of fall detection and wander management features, enabling swift intervention and care when necessary.

Key Challenge

Elysis, a senior living center in Luxembourg, sought to enhance resident safety and well-being, addressing the needs of those with declining autonomy. The center aimed for a solution that improved surveillance and staff efficiency, in line with its values of respect, quality, and innovation.

Solution

To address these challenges, Litum deployed an end-to-end solution tailored to Elysis' unique needs. Utilizing 260 compact tags for patients, 130 badge tags for staff, and 300 strategically placed anchors across five floors, the solution provided real-time monitoring and swift response capabilities. This setup enabled key functionalities like emergency and fall detection alerts, and a patient acknowledgement system that required physical verification from staff to ensure immediate attention to residents in need.




Features


 Emergency Alerts


 Forbidden Zone Alerts

 Fall Detection

 Pull Cord Alerts

 Patient Acknowledgement

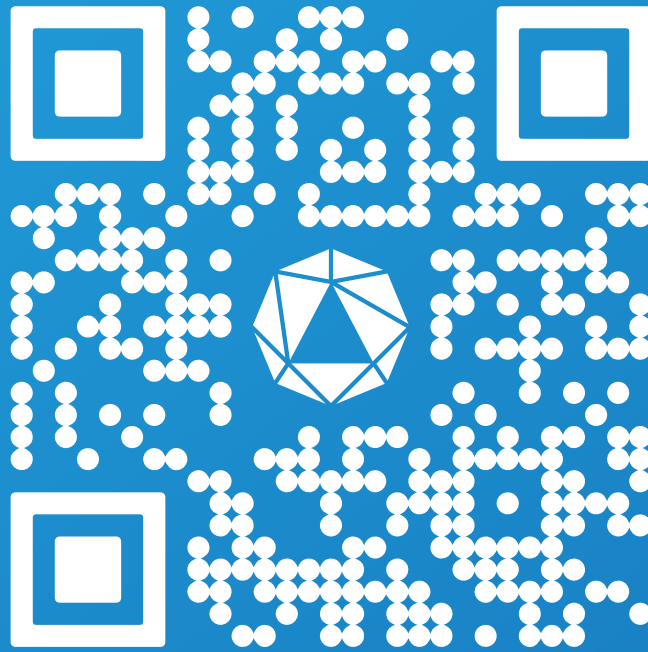
 Integrations with CTG and DECT

 Access Control



The Results

The deployment of Litum's solution at Elysis led to tangible improvements in both resident safety and the efficiency of staff operations. The safety of the residents was notably enhanced, evidenced by a decrease in emergency incidents and a faster response to those that did occur. Staff workflows benefited from the streamlined communication and response systems, facilitating more efficient management of resident needs. A key feature, the patient acknowledgement system, proved effective in ensuring timely staff attendance to emergencies.



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