

Asset Tracking and RTLS

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Vision Technologies worked in partnership with Tyco Elpas to develop a secure asset tracking system for a research and development client within the US government. The asset tracking solution was needed for not only tracking movement throughout the facility of personnel and equipment but also verifying access based on vicinity to other classified personnel and equipment. This system allowed for both asset tracking and verification for authorized removal of assets. The Real Time Locating System (RTLS) was implemented mainly for security purposes but was also put in place for ROI based on more efficient utilization of equipment and people.

The RTLS system designed and installed by Vision Technologies utilized multiple communication standards to allow for accurate and immediate location services. Ethernet infrastructure was used to support a range of communication standards from RF (Radio Frequency) to IR (infrared). The design of the system allowed for tracked assets to check in on a schedulable interval with interface relay controllers installed at secure check points for immediate check in where needed. This allowed the team to lock exit points immediately upon approach of an unauthorized person or piece of equipment. This methodology allows the system to not overutilize the infrastructure bandwidth or tag batteries while at the same time providing immediate information and action as needed.

The bypass capabilities within the system (local keypad controller at exit points) were put in place to allow authorized staff members to take tagged (protected) assets through protected doors. This also provides an escort feature such that an asset may be assigned to an authorized staff member thus allowing free egress of the asset if escorted by the assigned owner.



- Optimization, Automation and Transformation across the entire Environment
- Increased clinical efficiency
- Increased patient and staff safety
- Increased asset utilization rate
- Increased patient and staff satisfaction
- Innovative and scalable solution
- Reduce the loss of medical assets / equipment
- Ensure the security and safety of at-risk patients



GSA Connections II Contract # GS00Q12NSD0011
GSA Schedule 70 Contract # GS35F-0581R
GSA Schedule 84 Contract # GS-07F-161DA
GSA VETS GWAC Contract # GS06F-0535Z



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Elpas

All events within the system were recorded to supply administration with an auditable account of location and time stamped information. Furthermore, all information was available to be exported to other databases as needed for analysis. The interface for this system was designed for ease of use with simple text and graphical interfaces for all monitoring functions.

Tracking assets and people was not the only function of the system installed. It was also imperative that users could trigger an alarm in a time of duress. A button was included on the RTLS badge system to allow users to call for help if needed. Upon use of the system an immediate message is sent to the administrator displaying the name of the staff member and the location of the emergency. In the event a response does not happen within the pre-defined time period, additional alerts are sent out to additional users as necessary to appropriately respond to the alarm.

All the above system was tied into an AMAG access control system also designed and installed by Vision Technologies. This allowed for the programming of events based on location services such as locked doors or secure areas being placed on lockdown. The complete integration of the RTLS system and access control system gave the client complete control over their internal security and a solution that is highly flexible and expandable as future needs demand.

- Identify, Locate and Track medical devices throughout your healthcare facility and campus
- Identify, Locate and Track patients, guests and staff throughout your healthcare facility and campus



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