

Case Study

Overview

Triangle Hospital is a new addition to the Meilahti hospital campus of the University of Helsinki. It will function as a specialized hospital for internal medicine, with a total of 210 patient beds. In addition to its wards, it will contain a day surgery unit with 30 beds, an outpatient dialysis unit, an MRI diagnosis department with three examination rooms and a helicopter pad.

As a means to provide increased safety measures for its hospital staff, the hospital's management team has opted to install Visonic Technologies' (VT) Spider Alert Staff Protection Solution. The system allows for protection of staff members throughout the hospital wards.



View of the Meilahti Hospital Campus Helsinki, Finland

In the event a staff member is confronted with a dangerous situation, they can press the alert button on their personal, mobile emergency call transmitter and the message will be immediately relayed to the appropriate person that there is a trouble situation.

Additionally, the SpiderAlert solution identifies the staff member who has sent the alert and provides information on when the transmitter last triggered the event, along with the location of the last transmitted event. Alphanumeric display units with versatile mobile functions are also located in the hospital's corridors and relay emergency information to security people in response and to other staff members.

All alerts and responses are time and date stamped and logged to the Staff Protection database. The Staff Protection Solution also generates historical reports that detail the location of a specific emergency, who first acknowledged the alert, who responded and which staff member closed the alert after the incident was resolved.

The Triangle Hospital Staff Protection Solution has been installed and commissioned by Telepulssi Oy, a long standing Systems Integrator and partner of Visonic Technologies. 1,300 SR-520 Receivers were installed in the hospital, in the corridors and in every room on 10 hospital floors. The SR-520 is a dual technology RF+IR (radio frequency + infrared) receiver, which enables pin-pointing exact locations from which signals are sent. Approximately four hundred dual-tech pendant transmitters will be used in this facility.

The Security Challenge

Provide a system for hospital staff to feel added security and protection if confronted with an unsafe situation while on the job.

The Solution

A Spider Alert Staff Protection Solution based on active RFID technology from Visonic Technologies.

About Telepulssi Oy

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Established in 1978, Telepulssi Oy has over 30 years experience in security, CCTV, alarm and communication systems. Telepulssi staff possess knowledge and experience in project integrations, with many projects in the hospital and health-care sector.

About Visonic Technologies

Visonic Technologies, a fully owned subsidiary of the Visonic Group (TASE: VSE), is a leader in enterprise class, active & passive RFID/ RTLS real-time visibility solutions for personnel identification and safety; supply-chain logistics, asset protection & facility supervision.

www.visonictech.com



Eiris Management Software

The hospital's management opted with VT's Staff Protection Solution because it could be easily phased in to the existing SpiderAlert System implemented in other areas of the hospital campus. Over 5,800 receivers have been installed in different buildings in the Meilahti area and within several kilometers outside of the hospital campus. All receivers installed are connected to one system and staff members can use their personal staff protection badge anywhere throughout the campus, regardless of the building. Approximately 3,500 of these badges are in use in the Meilahti area. System stability demonstrated with the existing system, along with the cooperation of Telepulssi Oy were important matters when choosing VT's solution.

In addition, Triangle Hospital plans on implementing VT's Elpas Wandering Patient Tracking System as part of the new hospital's IT infrastructure. Similar to the Staff Protection Solution, the Wandering Patient Alert System allows hospital personnel to track patients within hospital wards, through the use of Elpas tracking tags. The system will be installed in the specific wards where patients need to be isolated from others. In the event a patient wanders out of their designated ward or room, the alarm will send an alert to the alphanumeric displays installed in the corridors and nurses will receive an alert to their mobile phone. This is a precautionary step to ensure a high level of patient safety during their hospital treatment.



SpiderAlert emergency call pendants

What is Spider Alert?

SpiderAlert provides real-time emergency signalling and event location for institutional and commercial applications. It enhances on site protection, as well as personal security of individuals. The SpiderAlert Staff Protection System allows freedom of movement with minimized risk. It gives workers the comfort of knowing that if a harmful situation were to arise, help can be close at hand. In addition, the system is easy to use, convenient and unobtrusive to day-to-day hospital functions.

Technology and How it Works

SpiderAlert uses real-time locating technology, utilizing both radio frequency (RF) and infrared signals (IR). RF technology provides the approximate location of duress signals and the identification of the person signalling, while IR identifies the specific location with line-of-sight detection.

With the Staff Protection Solution, staff can be provided with mobile emergency call transmitters and numerous hard-wired buttons can also be connected to the system. Users can call for assistance whenever they need it, in any area that is protected. Specialized locating devices are strategically placed in critical areas throughout the facility. Whether inside or outside, in large and small areas, the locator devices are extremely accurate and effective.

Once activated, the SpiderAlert system instantly relays real-time critical information about the identity and location of the sender to security personnel via the Eiris Tracking and Management Software. Eiris client stations display the location of the staff member requiring first-responder assistance, graphically overlaid on the relevant hospital floor plan. Alert notifications can also be sent directly to the security personnel on duty. Eiris Alert Messaging supports email accounts, text pagers, wireless SMS messaging, public address systems, digital visual displays, alarm beacons, loudspeakers and many common mobile and IP protocols.

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