



# Sentinel Attack Alarm System



“The ELPAS tags allow me to attend to my tasks and concentrate on my work knowing that I can summon security by pressing my tag’s button”

Nurse Betty Laing, Wirral Hospital

## Wirral Hospital, NHS Trust, England

“The IT Department was looking for an automated patient counter. The Accident & Emergency Department was looking for an attack alarm system. ELPAS was the marriage.”

Mr. Peter Marsh, Head of Information Management and IT, Wirral Hospital



<b>Start Date</b>	January 2000
<b>Customer</b>	Wirral Hospital, NHS Trust, England
<b>Contact</b>	Mr. Peter Marsh, Head of Information Management and IT, Wirral Hospital
<b>Partner</b>	Static Systems Group PLC.
<b>Solution</b>	Sentinel Security powered by EIRIS™ Local Positioning System
<b>System</b>	Windows NT Echelon LonWorks™ network

## The Challenge

Wirral Hospital, NHS Trust, England, is one of the largest hospitals in the UK, with 1300 beds spread over four sites.

The Accident & Emergency (A&E) Department has an average of 240 patients cared for per day and 170 staff members. Wirral Hospital was facing an average of one security incident on a staff member per day. This interfered with staff members' daily routine, as

they did not feel safe working on their own, or on night shifts. In addition, the hospital suffered from much time wasted in administrative work such as keeping a log file of patients' entrance and exit times (required by law).

Management sought a solution that would concurrently increase staff security and improve productivity.

## The Solution

Sentinel was installed in order to automatically alert security and provide real-time event location. In addition to Sentinel's Main Station, there are five Sentinel Viewer stations in use, making event notification also available to nurses. Furthermore, EIRIS™ LPS feeds essential information into the hospital's administration system. This information enables automatic reporting and calculation of patient location and waiting time.



### How Sentinel and EIRIS™ Work:

Wirral Hospital installed ELPAS Readers (RDRs) in clinic rooms and main entrances. Each staff member was issued a personalized badge (with a press button) that transmits IRFID™ signals. These signals are processed, and then transmitted to an NT server.

The EIRIS™ Server manages all the information of location and identification, while Sentinel responds to specific predefined events and saves them in an historical log file for retrieval of reports. Multiple events can be handled simultaneously in Sentinel.

The ELPAS solution is connected to the hospital's systems via the Echelon LonWorks™ network - which is characterized by its efficient, interoperable, multi-drop installation.

### Recognized Benefits

- Safeguards and increases staff's confidence level
- Acts as a deterrent, thus reducing the number of aggression incidents
- Reduces nurse administration hours, while increasing time spent with patients
- Scalability enables simple addition of access control, equipment tracking, patient location and more
- Open architecture system design (Echelon's free topology RDR Network) enables seamless integration with other building automation and security devices

## About ELPAS Ltd.

ELPAS LTD. - Local Positioning Systems (LPS), established in 1995, is a worldwide leading designer, manufacturer and marketer of automated Asset Tracking and Asset Management solutions based on its patented IRFID™ (IR & RF Identification) technology. Industries targeted are healthcare, intelligent buildings and industrial environments where indoor location and identification of equipment and people are critical to improve business security, communication and operations.



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