



Protect Employees with Indoor Positioning

Lone Worker Protection

Human interaction is decreasing in all types of technical installations, leading to a lot of people working in solitaire – the "Lone Worker" phenomenon. Though it is very cost-efficient to let a single employee manage an extensive area, it is also a critical single point of failure, and should something happen to him, problems escalate very quickly.

ZONITH Indoor Positioning system is the solution that safeguards any employee when working alone. The system continuously monitors the position of a person. If something is wrong, ZONITH Indoor Positioning system automatically sends an alarm notification to the on-call backup, together with an exact position of the employee.

Monitoring, Localisation and Notification

There are numerous occasions where ZONITH Indoor Positioning helps locating employees:

An employee on duty collapses, faints, has a heart attack or falls down and loses consciousness. In this state he may lie for several hours, until the next shift comes. Even then, when thinking about a huge power plant for example, it may take long time to locate the person. When using ZONITH Indoor Positioning system a rescue team can automatically be notified with precise information about the injured employee and is able to go directly to the location of the person.



A night watch in a large shopping mall is attacked by burglars and severe injured. If he has not reported back to the supervisor within a certain time a team of watchmen will start looking for him in the shopping mall. When using ZONITH Indoor Positioning system the team is notified and able to locate their colleague immediately.

In the case of fire in a building the smoke inside normally reduces sight dramatically. However, in many cases firemen have to work inside the building to fight the fire. In the case of an accident with one of the firemen his exact location is of vital importance for the rescue team. ZONITH Indoor Positioning system will help to find the position of the fireman quickly and efficiently.



In all situations above and in many more situations a quick and precise localisation of an employee is crucial for his security. An automatic notification with position information from ZONITH Indoor Positioning system is the most efficient way to protect employees. With our solution solitaire working employees can feel more secure and protected as their location is monitored. This helps employees to lower stress level and work more efficiently.

Indoor positioning

ZONITH Indoor Positioning is a Bluetooth based localisation system. Any Bluetooth devices like GSM phones, TETRA terminals, Bluetooth body-tags or Bluetooth panic buttons can be registered in the system. The Bluetooth devices can be seen by the system and act as a unique identification of the user. The positioning is carried out by a number of strategically mounted Bluetooth positioning receivers that can see any Bluetooth device within its coverage area. If the Bluetooth device is registered in the ZONITH Indoor Positioning system its location is continuously monitored. The positioning is based on the so-called cell-ID technology where the position of a Bluetooth device is determined from its signal strength. The cell where the Bluetooth receiver measures the highest signal strength is also determined to be the location of the Bluetooth device. Each Bluetooth receiver is individually adjusted to cover a specific room or a geographical area and thereby ensuring a precise cell structure.



ZONITH Indoor Positioning system is closely integrated into our automatic alarm dispatch solution TETRA Alarm Control System. While the ZONITH Indoor Positioning system continuously monitors the position of a Bluetooth device the TETRA Alarm Control System ensures appropriate actions in case a problem arises. This can be illustrated with an example:

Night Watch Assistance

A night watch presses the panic button on his TETRA radio terminal. The TETRA radio terminal immediately sends an alarm to the TETRA Alarm Control System. The TETRA Alarm Control System picks up the exact position of the night watch in question from the ZONITH Indoor positioning system and immediately notifies another watch team that is on duty at the moment according to the schedule. The notification message contains exact information about the night watch and his position and the watch team is therefore able to assist him the fastest possible.

ZONITH Indoor Positioning is an intelligent and cost effective system to determine the position of employees in critical situations. There is no need for special transmitters or tags as the system uses standard Bluetooth devices. As more and more phones, TETRA radio terminals and other equipment are Bluetooth enabled this will work just fine together with the ZONITH Indoor Positioning system.

Key Features:

- ▶ The system can determine the position of any Bluetooth device
- ▶ All alarm notifications contain details on the employee and his physical location
- ▶ The system is easy to install
- ▶ Positioning notifications can be triggered by any alarm from any system
- ▶ The intelligent watch schedule ensures backup in critical situations

To learn more visit www.zonith.com

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