ZONITH

THE POSITIONING SOLUTION

RTLS - INDOOR & OUTDOOR POSITIONING

For more than a decade, ZONITH has been the market leader in Bluetooth-based indoor tracking and alarm handling solutions. Continuous technical developments have saved lives by providing real-time information about the location of people in need, giving rescuers a tool for quick response. Users worldwide have benefited from a unique platform combining positioning of staff with the ZONITH Alarm Control System (ACS).

The current Real Time Location System (RTLS) integrates both Bluetooth technology to monitor staff indoors and GPS technology to locate staff outdoors.

Indoor Positioning

Locate employees & assets using any always discoverable Bluetooth device, including DMR & TETRA radios, Android smartphones, DECT/WiFi phones and Bluetooth tags. ZONITH'S RTLS provides real-time location data using strategically placed ZONITH Bluetooth beacons connected to the buildings LAN. Beacons are continually monitored for disconnection and have a range of 5-50 metres (subject to the environment). The more beacons installed, the more precise the location data.

Customers are not bound to a specific brand of handheld device; they can switch or add Bluetooth devices at any time.

Comprehensive Positioning

Beacons can be installed throughout the building for full coverage, giving high positioning

Entrance & Exit Notification

Beacons can be configured to monitor entrance & exit points. Coupled with ACS, alarm notifications are sent when there is a change in location.

Large Area or Floors

When an employee enters or exits a designated zone, RTLS can tell which floor or area an employee is located with very few beacons.

Locate & Track

- ZONITH Bluetooth ID Badge
- DMR and/or TETRA radios
- Android Smartphones
- WiFi and DECT phones
- Other 'always discoverable' Bluetooth devices

Outdoor Positioning

ZONITH's RTLS locates and tracks employees outdoors via their GPS-enabled device, regularly transmitting its current position via GPS satellites to the RTLS server. Outdoor areas requiring monitoring are configured using customisable GPS geo-fences, displaying the users' current location within that geo-fence.

Should an address be needed the RTLS will handle this as well.

Combined Positioning

By combining these two technologies, staff are safeguarded no matter their location.

Indoor & Outdoor Geo-Fences

The RTLS utilises geo-fences which are freely defined virtual boundaries to determine location. A geo-fence can be given logical names such as 'Parking Lot' or 'Front Entrance' which allows staff to instantly know where an incident has occured.

Why are geo-fences important?

During an emergency, the response team is notified of the employee's last location - 'Matt has raised a Panic Alarm at North Gate Area' - saving valuable time. Geo-fences can also be used to raise alarms if someone enters a specific location like an explosive area, or a vehicle deviating from a planned route.

Single User Interface

By combining Bluetooth and GPS technology, staff can be located from any position in or around a facility. When leaving the Bluetooth area & going outdoors, staff handsets will seamlessly switch to GPS.

Matt has raised a panic alarm at North Gate Area.

Enhance Worker Safety with RTLS in combination with...

Alarm Control System

When paired with ZONITH's Alarm Control System (ACS), RTLS can automatically trigger an alarm should an employee enter/exit a predetermined zone. ACS filters the alarm to the appropriate person based on their location, schedule & competency.

Centralised Lone Worker

Centralised Lone Worker (CLW) periodically pings workers to verify their well-being. Should a worker fail to respond to an 'Alive Check' message an alarm is raised notifying the response team. CLW can be activated when a geo-fence is crossed. For example, if a staff member enters an unsafe area like a boiler room, the geo-fence will automatically enable. When they return to the safe area like the break room, CLW is disabled.

Man Down Notifier

For customers using the Motorola MOTOTRBO digital radios, the Man Down Notifier app can be enabled. Should an employee suffer a fall or accident, the radio will register the incident and notify colleagues and/or supervisors of the emergency and the employee's last known location.

ZONITH Real Time Location System

Single User Interface

There is a seamless transition between GPS and Bluetooth technology when moving in and out of buildings.

Quickly Identify Staff

Each device is identified by the user's device ID or name & represented on the custom floor plan (indoors) & Open Street Maps (outdoors).

Zoom & Track

Each device can be easily located just by clicking on the device name in the overview. RTLS will zoom into the exact location of the device or person.

Web-browser Access

Access the RTLS user interface through a web browser from any computer or mobile phone. Access is limited to authorised personnel and is password protected. The technology does not require cookies or apps to be installed as it is based on the latest browser technology, allowing immediate location updates.

Utilise Existing Communication Infrastructure

ZONITH's RTLS enables more efficient use of LAN and wireless infrastructure and higher ROI on equipment as the infrastructure can be used for communication & security purposes. Most facilities have LAN infrastructure that can be used for connection of the Bluetooth beacons & transmission of indoor positioning data.
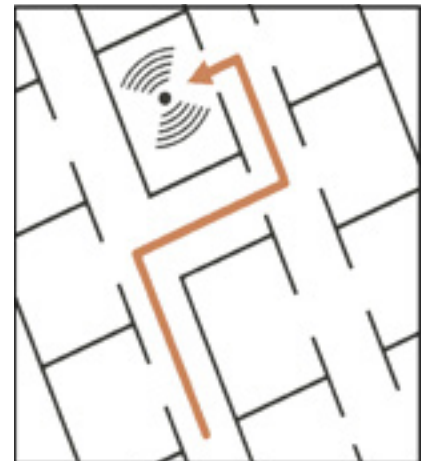
ABOUT ZONITH

ZONITH is a software development company that delivers standard software packages to key vertical customers through a network of global resellers and system integrators. ZONITH resellers are trained in selling and delivering ZONITH software applications that complement digital two way radios such as TETRA, MOTOTRBO and Hytera DMR digital radios, as well as WiFi, DECT, GSM and Android phones.

ZONITH constantly develops and enhances solutions focused on increasing people's safety, security and situational awareness.

GetInTouch!
ZONITH

ZONITH A/S
Gammel Kongevej 39E
1610 Copenhagen V, Denmark

Email: sales@zonith.com
Phone: +45 3332 4530
Web: www.zonith.com