Indoor Positioning System

Bluetooth Positioning

Beacons are Powered over Ethernet (PoE) or from an external 5VDC source. The beacons can be tuned to cover small or wide areas throughout a building. The more beacons installed, the better the accuracy of the system. Beacons are tuneable to cover 1-25 meter areas and have adjustable refresh rates.

The beacons are supplied in two versions. One with internal antenna and one for external antenna connections.

Restricted Access Alarms

IPS uses on-screen alarms and text messages to simultaneously notify control room and mobile staff if unauthorised people enter restricted areas.

Integrated Solutions

IPS provides a backbone to enable system integrators to create intelligent location based services e.g. emergency response, panic alerting and intelligent lone worker solutions.
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**Graphical Overview**
ZONITH IPS provides a clear graphical overview of people's locations within a building, enabling control room staff to immediately see where resources are - especially in emergency situations. IPS’s Graphical User Interface can be accessed through a standard browser from any computer connected to the LAN.

**Reporting Tools**
IPS has a reporting feature that records a person's position and movement within a building. As a person moves between zones IPS records the time and location that they enter and leave.

**Personal Panic Alarms**
IPS supports ZONITH Alarm Control System panic alarming. When a person activates a personal panic alarm people are instantly notified on the graphical overview and digital radios, mobile phones, DECT handsets or WiFi phones.

**Lone Working Safe Areas**
IPS is used to create ‘Safe Areas’. If a member of staff leaves a ‘Safe Area’ IPS will automatically activate Lone Worker services to ensure the person’s safety. The service is automatically deactivated on the person’s return.

**IPS Features**

**Graphical Overview**

**Supported Bluetooth devices**

It is a requirement to IPS that the tracked Bluetooth device can be set in Always Discoverable mode. Many devices like mobile phones support this functionality. Below is a list of devices that have been tested and found functioning:

- Motorola MOTOTRBO handheld radios (ask for specific models).
- Motorola TETRA handheld radios (ask for specific models).
- Hytera professional two-way DMR radios (ask for specific models).
- Spectralink (former Polycom) DECT and WiFi phones type 5040, 6040 and 7040.
- Sepura STP8000-series of TETRA radios.
- Android Smartphones version 4.0.0 or higher
- Teltronic HTT-500 TETRA radio.
- Zonith Bluetooth TAG. Small tag used for tracking only.