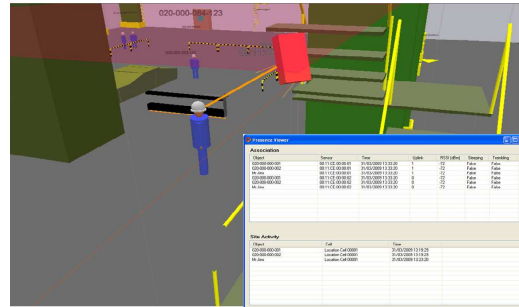


Enhanced Flexibility for your Real-Time Location System

The Presence Module extends the Ubisense Precise Real-Time Location System (RTLS) – allowing for the combination of complementary indoor/outdoor positioning technologies with presence information.

It provides a spectrum of tagging and location options from basic tag-to-sensor association and telemetry, through coarse-grained location using 2.4GHz RF, to precise real-time location using UWB.

This allows customers to get a complete end to end view with a single tag.



Extending RTLS

The UWB and Presence options can be freely mixed on a single site, optimizing cost-effectiveness by allowing customers to tune infrastructure to their requirements:

- at one extreme a single sensor can support basic presence and telemetry over an area of more than half a million square feet (50000m²),
- at the other extreme a six-sensor cell covering sixty thousand square feet (6000m²) can locate tags in real time with errors of less than six inches (15cm)*.

Integrated with the Ubisense Platform Location

The Ubisense Location Platform is designed to handle both the precise UWB location data as well as other RTLS sensor system, RFID system or non-location sensor input.

Messages from Ubisense Presence sensors are processed according to configurable policies and provided via the Platform API.

The system can also compute location data using a set of predefined location methods. This information is somewhat different from the usual highly precise UWB locations, but can be treated in the same way using the rich feature set of the Ubisense Platform software - to examine spatial interactions between objects, trigger events, or expose the object's position to other systems via the Platform API.

How it works

Ubisense Presence works with the Ubisense Location Platform software and standard Ubisense dual-mode 2.4GHz/UWB tags and sensors. Ubisense tags will send short signals – called 'chirps' - on their 2.4GHz radio at pre-set intervals. The standard Ubisense sensors can be set up so that they receive and process these signals and forward them to the Ubisense Platform software. At the same time, both sensors and tags continue to perform their precise UWB location functionality without any limitations.

In its simplest form, a signal received above a configurable threshold signifies that the tag is within a certain range of the sensor – thus the term 'Presence'. A chirping signal can be received at multiple sensors at the same time. The processed signals can be combined – by taking into account the respective received signal strengths – to compute further information, such as a coarse location.

About Ubisense

Ubisense is the world leader in Precise Real Time Location Systems, tracking unlimited numbers of people and objects in any space of any size. With unmatched 15cm 3D tracking accuracy and high reliability, its acclaimed open standards technology platform gives enterprises the power to bring visibility and control to previously intractable business processes. Together Ubisense consulting and its partners, such as IBM, Atlas Copco, Lockheed Martin and Raytheon deliver geospatial and RTLS systems, pioneering innovation whilst reducing costs, gaining competitive advantage and improving safety for companies across all vertical markets. With over 400 customers worldwide including BMW, Caterpillar, DHL, Duke Energy, Deutsche Telekom, US Army; Ubisense is revolutionising industries today. Visit www.ubisense.net

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