

Ubisense is designed for 24/7 operation in tough environments where downtime is not acceptable. Ubisense systems are proven on an industrial scale in real production sites worldwide.

Benefits

No single point of failure

Ubisense sensors create and distribute their own timing signals without needing a 'hub' or 'SDP' like other Real-Time Location Systems (RTLS), and so, unlike other RTLS systems, Ubisense has no single point of failure.

Ubisense sensor systems are organized into cells. Ubisense can be configured so that each cell can still operate even if one of its sensors is destroyed, or all the sensors in another nearby cell are destroyed.

Scalable cellular architecture

Ubisense Location Platform scales seamlessly from a laptop to a multi-CPU cluster. Exactly the same software can be run on a single machine, for software development or demos, or deployed across a cluster to support huge installations generating tens of thousands of location events per second.

The Ubisense software architecture is cellular, making it easy to assign services to cluster members for optimal resource usage. All Ubisense services are crash tolerant making them suitable for operation with any cluster management system (basic service management support comes as standard).

Ubisense services may be physically located hundreds of kilometres from the sensors - connected via the customer's corporate network.

Continuous health monitoring

Ubisense services include tag health and battery status monitoring, and can be configured to generate a warning event when a battery needs changing.

Ubisense can supply logging and analysis tools for continuous monitoring of every single location event and comes with Internet tunnelling support, for remote monitoring and maintenance across the world.

System-wide programmability

All Ubisense hardware including tags can be re-programmed remotely so that it is easy to incorporate the latest improvements in any system component without having to plan for extensive downtime.

Cross-platform operation

Ubisense services all run on Windows and Linux as standard, and have been proven to work well with industry-standard virtualization systems such as VMWare and Veritas.

Wired and wireless network-friendly

Ubisense sensors and software can be configured to use various networking options and wireless channels in order to meet site requirements. Ubisense has extensive experience in using, and co-existing with, production wired and wireless networks.

Examples



At BMW's Regensburg plant, Ubisense is deployed over approximately 1.7km of production line, processing up to 1500 location events per second, and controlling about 120,000 tool programming operations every day.

The Ubisense software is hosted on a single 8 CPU machine running Enterprise SUSE Linux runs on the existing backbone and production networks, and obeys all pre-existing wired and wireless networking requirements.



Ubisense is used by MetroTransit in Minneapolis-St. Paul to link all five bus depots in the Twin Cities metropolitan area, providing high precision tracking of every bus in every depot.

The Ubisense solution is integrated with existing dispatch software and GPS wide-area location systems. It provides a simple web interface, allowing staff to locate buses across the MetroTransit network.

Andreas Lehner, responsible project manager at BMW: **"All the project objectives have been met on time and within the planned budget. From the standpoint of value creation, the project is a complete success."**

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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