

The Ubisense Location Platform includes all the software needed to deliver a complete set of location-aware applications, tightly integrated with existing systems.

Features

Real-time spatial events

Ubisense Location Platform includes a graphical interface for defining relationships between objects, which are then monitored in real-time, turning location events into the object relationship events that application programmers care about.

2D and 3D visualisation

Ubisense Location Platform provides support for creating detailed 2D and 3D models of the buildings covered and the objects tracked.

Building models can be created in several ways: drawing them with Ubisense graphical tools, importing them using a simple transfer format that can be extracted from CAD systems like AutoCAD, or using an image as a background.

Object representations can be drawn using Ubisense graphical tools, or imported from popular drafting tools like Google SketchUp.

Ubisense Location Platform provides a range of tools and components for visualization in 2D or 3D in smart client programs. The Ubisense Enterprise Browser provides 2D visualization for web browsers and hand-held devices.

Open integration

Ubisense provides APIs in .NET (and C++ for selected partners). The APIs are fully open so that integration options are unrestricted: everything that can be done using Ubisense tools can be done via a Ubisense API.

To support partners and customers who just want location events in the simplest-possible form, Ubisense sensors use an open on-the-wire protocol to send 3D position, ID and timestamp directly to client programs over UDP.

Ubisense Location Platform has been integrated with a variety of other systems in many real-life installations, including: RDBMS (Oracle, SQL Server, MySQL), other middleware systems (IBM LAS, NCR Transition Works), military systems (S2Focus, DIS), process control systems (OPC), other sensing devices (inertial MEMS sensors, GPS receivers), and many other devices (CCTV cameras, screens, torque power tools, etc.)

Seamless extensibility

Ubisense Developer extends the Location Platform with a Data Dictionary editing tool that allows developers to create new application-specific data models, and compile these models directly to persistent, scalable .NET 2.0 Ubisense services, tightly integrated with the other Ubisense services, in order to build application suites tailored to specific verticals.

Ready-built application suites

Ubisense provides suites of ready-made applications with the key location-aware features needed for key verticals.

Specifications

Spatial events

Definition of object relationships via graphical tools (Windows platforms only) or via API.

Scalable real-time monitoring of spatial events distributed to clients via the .NET or C++ APIs

Visualisation

.NET 2.0 visualisation controls based on DirectX 9.0 for easy integration into your applications. Configuration tools to easily create new object representations (requires DirectX 9.0 or higher).

Open APIs

.NET 2.0 API to all features as standard (also compatible with all later versions of .NET)

C++ API also available (choice of Windows Visual Studio 2008, Linux 2.4 kernel, Linux 2.6 kernel)

Open on-the-wire protocol C source code freely available

Extensibility

Data Dictionary editor available for Windows .NET 2.0 and above.

Data Dictionary editor generates .NET 2.0 assemblies direct from user data models

Application Suites

Existing modules and applications for key vertical markets such as Manufacturing, Transit, Health & Safety in industrial environments, Military Training already available

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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