



WESTICO VISIBILITY SYSTEM

Real Time Locating System

- Intuitive Google - like user interface
- The using of external and internal maps
- Geographical coordinates support
- The standard WiFi infrastructure
- Hardware independent
- Support for passive RFID tags
- Support for GPS devices
- Wide sensors support

Westico Visibility System allows tracking of assets, people and equipment in real time in a standard WiFi wireless network. To determine the position it uses a small battery powered WiFi tags with a long battery life. This technology is designed for positioning objects mainly inside buildings, where appropriate, within the campuses.

Inside buildings the system typically achieves accuracy in the order of meters. Since the tags are equipped with sensors, the system supports also a very efficient wireless sensor based data collection. From the technological point of view it concerns about the active RFID technology.

■ INTUITIVE USER INTERFACE

The basic function of the system is to provide information about the current tag position. Google-like search and maps user interface is therefore simplified to the maximum level and respects the experience and the usual convention. Just to enter a name of searched object, also incomplete, and the result of the query will be shown on the list. By next click you will reach your searched object, displayed on a detailed map.

■ UNIQUE USING OF INTERNAL / GOOGLE MAPS

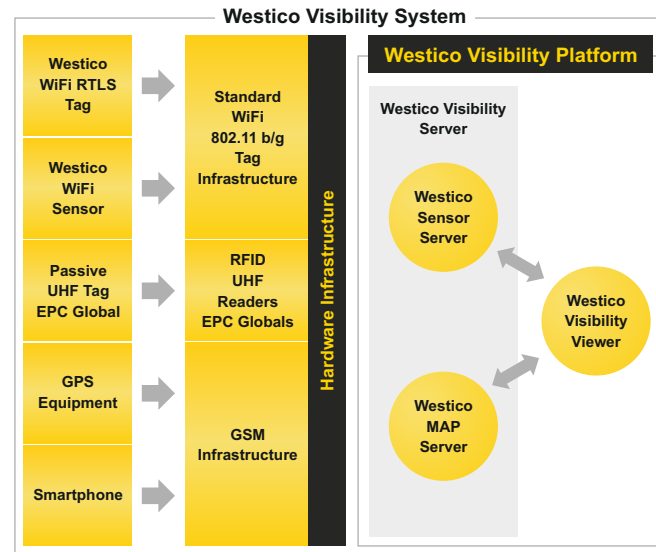
With this technology it is possible to track objects over large geographical areas based on Google Maps. While in the maximum resolution, there are used internal maps of buildings and campuses, system is capable to track assets in detail with a resolution down to tables in the offices or loading ramps in a warehouse. The system works internally with geographical coordinates.

■ WESTICO VISIBILITY SERVER

Tags can communicate with RTLS location server via the Internet. In the locality of monitoring assets might be only a wireless WiFi network and the RTLS server can be located on the other end of the world. This concept also allows to access data not only through a PC but also by means of PDA and mobile phones equipped with Internet browser and with Internet or network connectivity.

■ TAG SENSORS

Tag can be equipped with a number of sensors and the whole system can be used for an extremely efficient and economically profitable data collection from these sensors, particularly within large-scale areas and facilities. Each tag is equipped with the standard temperature sensor and tamper detector, which responds to the attempted tag removal from the



monitored object. Very important is an extremely sensitive motion sensor, which provides information on whether the tag moves or not.

Tag can be optionally fitted with shock sensors in two axes and humidity sensor. For each sensor can be defined thresholds. By reaching these thresholds the system will respond by predefined way.

If the tag is present in the WiFi network, sensor based data collection runs in on-line mode. If the tag is not located within the WiFi network, it works in the off-line mode, where data from sensors are stored in the tag memory and than transferred to the server whenever the tag appears in a home WiFi network.

■ ENTERPRISE ARCHITECTURE

Westico Visibility Platform is built on J2EE technology. It is platform independent and can be installed into the Windows, Unix or Linux server environment. Out of this technology results also many advantages such

as scalability, high system availability, reliability, security.

■ WEB APPLICATIONS

Tags can communicate with Westico Sensor Server via the Internet. Also users access the Westico Visibility Platform through web applications. This concept allows flexible installation when the tracked objects, Westico Visibility Server, and users are at geographically different locations. To access the application users need only a web browser.

■ USER INTERFACE

The system provides data about the current location of monitored assets, the data obtained from sensors, routes of tracked objects, historical data and defined events. These data are available to users through a web application: data can be accessed anywhere from any device equipped with a web browser.

■ INTEGRATION

Database, platform and hardware independence creates non barrier conditions for system integration into any of third party applications. The Westico Sensor API interface that meets the requirements of international standard ISO 24730-1 provides all the necessary data to these applications in real-time.

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