

Ekahau Positioning Engine 4.2

Real Time Location System

Ekahau Positioning Engine (EPE) is the centerpiece of a complete Real Time Location System (RTLS) that accurately locates people and assets – all you need is a Wi-Fi network.

Location Tracking for Wireless LAN Networks

Ekahau Positioning Engine (EPE) is an enterprise-grade real time location software that leverages any standard 802.11 wireless network of any brand or generation. The EPE provides accurate location, presence, and status information in real time for Ekahau Wi-Fi tags and other supported Wi-Fi compatible devices. The EPE features:

Accurate Location - Attaching Ekahau Wi-Fi location tags to people and objects allows the EPE to collect data on the tag whereabouts and status, establishing asset visibility within the enterprise. Location is made possible by Ekahau's innovative algorithms that calculate accurate tracking based on signal strength measurements.

In addition to location tags, the EPE accurately tracks Wi-Fi enabled laptops, PDAs and barcode scanners in real-time to enable location-based services within the enterprise.

The ability to know the whereabouts of assets and people enables a variety of applications, which produce substantial cost savings through optimized asset visibility, asset utilization, as well as improved security and workflow.

Management and Monitoring - Once deployed, all tag interaction is done through the existing wireless infrastructure. You have complete control of your system, including how many tags are deployed, their current status and precise location. Tags can report in at timed intervals, when an object moves or stops moving, in response to button press or when triggered by tamper sensor or pull switch.

Ekahau Wi-Fi tags can be associated with asset ID information such as name or serial number, department, etc. , as well as application-specific operational parameters. This association makes it simple to find specific objects within a particular geographical area.

Product Overview

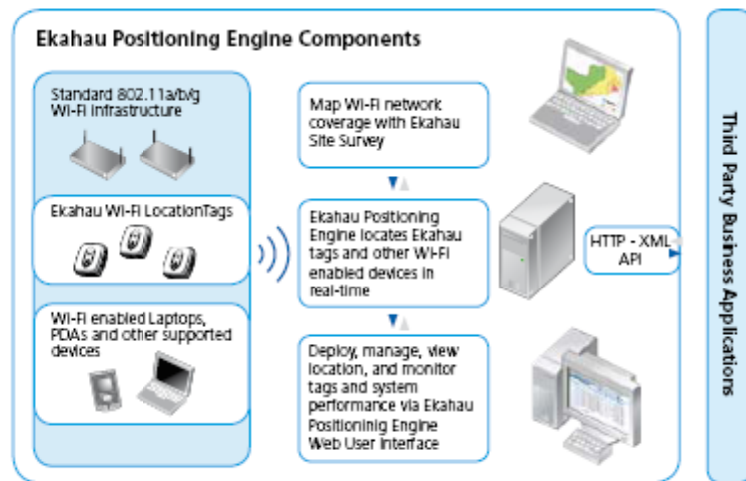


Benefits:

- **Secure** - Supports WPA2-PSK and other industry standard wireless security protocols
- **Accurate** - Patented, field-proven algorithms deliver best-in-class accuracy
- **Open** - Flexible API enables simple integration with any enterprise system, so that the system works the way you do
- **Cost-effective** - Leverages your existing Wi-Fi infrastructure for lower costs and rapid installation
- **Easily deployable** – Industry leading implementation tools ensure quick and easy deployment

Product Overview

Integration - The EPE can be seamlessly integrated into your existing middleware, database, ERP, workflow, and other systems, enabling automated or on-demand monitoring and reporting. Its open architecture is designed to fit into the way you do business. The EPE 4.2 comes with Ekahau Site Survey, an easy-to-use point and click utility with which you can create positioning models during set-up. This module offers a visual interface for calibrating the EPE or it can be used to analyze wireless network coverage.



System Capabilities:

- Compatible with all standard 802.11 a/b/g Wi-Fi (wireless LAN) network technologies including autonomous and lightweight AP networks
- Supports Ekahau tags operating in associating mode for advanced, bi-directional applications and non-associating mode for basic applications.
- Supports WPA2-PSK, WEP and open authentication with T301 tags.
- Simple and quick system calibration with heat maps to facilitate easy performance analysis and management of the positioning model
- Best-in-class performance for accuracy, easy-of-use, and cost effective operation, patented algorithms compensate for access point outages and environmental changes
- Web-based tracking and management console for remote configuration of location tags and system monitoring
- A single EPE running on a standard enterprise class server supports campus or enterprise-wide deployments of up to 20 000 tracked objects and 600 locations per second.
- Quick application integration via HTTP/XML Application Programming Interface and SDK (Software Development Kit)

System Requirements:

- Wireless network: Standard 802.11 a/b/g Wi-Fi network
- Ekahau Positioning Engine Server: At least 2GHz Intel® Pentium® CPU, 1 GB of RAM, 500 MB of HD, Windows® XP Professional, Windows® 2000, or Windows® 2003 Server
- Ekahau Site Survey Laptop: At least 1 GHz Intel® Pentium® CPU, 1 GB of RAM, 500 MB HDD, Windows® XP Professional or Windows® 2000
- Tracked devices: Ekahau T201 tags, T301 tags and supported Wi-Fi enabled devices such as laptops and PDAs.

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