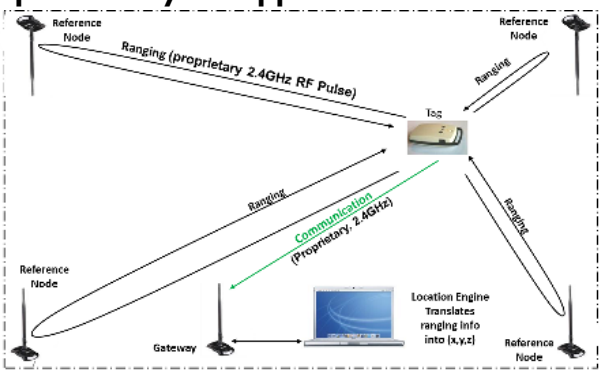
EPSIF™ Open API

ESSENSIUM

- **EPSIF provides a low-overhead, open interface to the EPS Tracker Server.**
- **EPSIF allows you to write software with easy access to high performance location tracking from Essensium.**
- **EPSIF can push position and status updates to your application.**



- **EPS is a unique real time positioning solution for indoor and outdoor applications.**
- **EPS combines sub-meter accuracy with long range resulting in low infrastructure cost.**

Overview

EPSIF provides an easy to use, text-based interface between your dedicated application software and the EPS Tracker Server. This open interface allows you to write software solutions for your specific market applications, which use the EPS high performance position tracking system from Essensium. The intuitive commands and simplified interface mean that your solution can be up and running in a minimum of time and effort.

TCP connection

Connecting between your software application and the EPS Tracker Server simply requires opening a TCP connection between the two applications. Solutions can be implemented on a single machine or remotely located across a network.

Low-overhead

The EPSIF interface supports an ASCII based communication protocol where your software application can send plain text TCP requests to the EPS Tracker Server and the EPS Tracker Server responds with plain text.

Push mode for reduced network load

The EPSIF interface supports both push and pull modes of access. Your software application can subscribe to position and sensor status information for selected sets of nodes, and the EPS Tracker Server will push updates to your application whenever they are available. This significantly reduces the network and server load compared to alternative RTLS solution API's, which only support polling modes of access.

Pull mode for specific queries

In parallel with the subscribe mechanism described above, your software application can also simply query the EPS Tracker Server to find out the position and sensor status information regarding a specific Mobile Node or set of Mobile Nodes.

Full configuration and control

EPSIF provides access to all configuration and control mechanisms of the Tracker Server, allowing the configuration of the system behavior; adding, removing and configuring Reference Nodes and Mobile Nodes; determining the position calculation and update rates; and monitoring the solution performance.

Source Code

The EPSIF access is supplied together with documentation and example source code, allowing your software development team to get up and running in a minimum of time.

For more information

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