

ABSTRACT

METHODS AND APPARATUS FOR IMPROVING ACCURACY OF
WIRELESS LAN LOCATION TRACKING SYSTEM

A method and an apparatus for improving the accuracy of Wireless LAN Location Tracking System is described. In the present invention, a new apparatus named Positioning Access Point is used to transmit Power Level information explicitly through a Power Information Element periodically. A Wireless LAN Client then is able to use this transmitted Power Level information instead of the widely used Received Signal Strength Indicator for location computation. By varying the transmitted Power Level, the present invention can achieve a high accuracy of location resolution up to 1 meter or below.

Fig1 and Fig 2 accompanying this abstract.



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