Abstract

This paper proposes and implements a low cost vehicle tracking methodology without using the GPS technology. This is of benefit majorly in the public transportation systems. The RTI-TRAPS, which is, "Real Time Informer of Public Transportation Systems" is a methodology that provides the real time information about the vehicle location to the users via SMS. This involves utilizing of already proven communication technology and the integration of human interface into the information flow system structure. The flow system developed is the simplest model and uses the mobile phone with GSM/CDMA capabilities as its important medium for communication. The application is developed using Microsoft Technologies, thus, enabling it to run only on a Windows platform. This paper hence provides with the required architectural details, Hardware Specification and Software Requirements Specification (SRS) details to set up operational RTI-TRAPS. Also a cost comparative analysis is given to show how this methodology stands off in comparison to GPS technology in adaptation.

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