

# Save lives: The application of geographical location-awareness service in Iranian pre- hospital ems information management system

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## Abstract

For emergency and relief service providers such as pre-hospital emergencies, getting to the scene of an accident or any EMS mission quickly is one of the most important needs for effective service delivery. Response time (an interval as the elapsed time from the time of the call to the time of arrival on scene) is the most important factor to determine the quality of pre-hospital Emergency Medical Services(EMS) [1]. This is especially important for patients who have faced a heart attack, stroke, or accident. Location-based services can be broadly defined as any service that provides information pertinent to the current location of an active mobile handset at a specific window of time, regardless of the underlying delivery technology used to convey its information [2]. According to the researches, one of the effective methods to meet this goal is to determine the location of the caller with the cooperation of landline and mobile phone operators in the country. The follow-up of the Ministry of Information and Communications(ICT) and the Radio Regulatory Authority organization has resulted in the receipt of two separate secured electronic web services. Thus, based on the importance of human privacy protection, design a secured technical architecture for launching the services in the pre-hospital EMS information management system was required. In addition, because of the importance of accelerating the arrival at the patient's bedside, the use of an intelligent transportation system in rescue vehicles to estimate road traffic using mobile data based on GPS navigation and independent of the internet was required. This paper seeks to illustrate the architecture of the practical national model used at the Iranian EMS organization.

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