Seamless SIP multimedia session transfer on IPv6 network via device switching

Abstract

Due to significant popularity of Location-based Services and Multimedia communication over mobile devices, there are many researches has been conducted to extend the features of location tracking and make it cost-effective to users. It becomes necessary for the users to have seamless communication with automated switching of software applications. This paper focuses on the performance of indoor location tracking system on IPv6 Network Island with multiple real time applications that has location assisted transfer for mobile users. RSSI (Received Signal Strength Indicator) mechanism has been used to locate the moving nodes. The developed location tracking server is having dynamic and centralized MySQL database management system. . SIP (Session Initial Protocols) user agent has been used to deploy intercommunicating of multimedia data for instance; video and audio conference, text messaging among the moving nodes and user can transfer the seamlessly transfer the session to their nearest mobile node which will be determined by the Location Server . This paper is going to discuss about the seamless performance of SIP during the session transference. The developed project is cost-effective and precisely conducive for the industries or any indoor organization. The prototype of the project has been successfully developed and has been tested as well. The results show the seamless connectivity of the multimedia application during device switching