

A Seamless Handover Method for SIP in A WLAN Environment

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ABSTRACT

The Session Initiation Protocol (SIP) is constantly gaining in popularity and acceptance as the signaling protocol for voice communications. However, as the popularity of WLANs and mobile devices, the mobility management of SIP becomes an important issue. In order to solve the mobility problem, the SIP mobility was proposed. Unfortunately, the SIP mobility has the disadvantage of the long SIP signaling delay that will disturb the voice communication. In this paper, we propose and simulate a handover method to reduce the SIP signaling delay. The idea is to use the RTP Header Extension field in RTP packets to carry the IP update information. The simulation results demonstrate the feasibility of this proposal. Keywords : Session Initiation Protocol(SIP), RTP, Wireless Local Area Network(WLAN), handover, seamless handover

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