Seamless Handoff Support for Real-Time Multimedia Applications in Nested Mobile Networks

Chang, Ing-Chau; Chou, Chia-Hao

Abstract

In this paper, we extend our Hierarchical Care-of Prefix with the binding update tree, i.e., HCoP-B, to support route optimization and seamless handoff for real-time multimedia applications in the nested mobile network simultaneously, which is rare in the literature. As compared to the traditional ROTIO scheme with mathematical analyses and simulations, HCoP-B achieves shorter playback disruption time and buffering time for on-going real-time multimedia applications whenever the mobile subnet in the old nested mobile network hands over to a new one.