Abstract

Latest wireless network technologies facing network capacity issue & not able to achieve its goal of delivering higher data rate due to poor indoor coverage issue. Femtocells are less expensive alternative for achieving high data rate and better indoor coverage. Femtocells are home base stations placed near to subscriber which supplements existing macrocell network. It normally has three different access modes called Open access, closed access & hybrid access mode. Call Admission control (CAC) in integrated macrocell-femtocell need special attention due to these access modes & used to ensure better quality of service for mobile subscribers. In this article, we will study registered users handoff call prioritization CAC policy. The proposed policy considers hybrid access mode for femtocell network and gives high priority to femtocell register user. It uses guard or reserved channel mechanism & buffer concept for call admission control. Comparison of handoff prioritized scheme (HPS) and non-prioritized schemes (NPS) & benefits of handover prioritized scheme over non-prioritized schemes are highlighted in this article.
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Index Terms

Computer Science   Wireless

Keywords

Call Admission Control, Handover Management, Femtocell network, Femtocell Access Modes.