Abstract

In this modern era computers and mobile phones are the major mode of communication. Due to the rapid development in mobile phone technology, which leads to smart phones with tremendous applications installed on it. This made wide impacts in our business as well as social lives. The advancement of new generation smartphones are capable of handling both voice and data service simultaneously in a cellular network through the same antenna. This requires better radio connectivity compare to voice alone service. This paper converses the concepts of Fallback to Signaling Radio Bearers for network optimization in Macro cell deployments and Small-Cells which includes Femto, Pico and Micro cells. It discusses the advantages of using Fallback to Signaling Radio Bearers (Fb-SRB) over the NBAP (Node B Application Part) signaling mechanism executed to camp-on to the network and macro-cell based as well. It also talks about the factors improving the performance of Fallback to Signaling Radio Bearers (Fb-SRB).

References


6. Saowaphak Sasanus and David Tipperl, “Impact of Signaling Load on the UMTS Call Blocking/Dropping”, Telecommunications Program, School of Information Sciences University of Pittsburgh


**Index Terms**

Computer Science  Wireless

**Keywords**

SRB, NBAP, HNB, MRAB, Call Drop, Small Cells.