Abstract

Long Term Evolution (LTE) is the 3rd Generation Partnership Project (3GPP), all-IP wireless protocol that evolved from Global System for Mobile Communications (GSM). Congestion control algorithms are an important part of Transmission Control Protocol (TCP) that directly determines the performance of the protocol in the IP Network. Several TCP variants have been proposed. It can be used to enhance quality of service (QoS). In this paper, an enhanced approach is proposed to improve the performance of LTE network. The proposed approach depends on controlling the receive buffer size in eNode B. This will be performed through dividing the memory size of eNode B between active users. Simulation results show the effectiveness of the proposed approach that lead to enhance performance in terms of network throughput and low time delay.

References


17. H. Lee, K. Han, “Buffer overflow notification protocol at link level for wireless ad hoc


Index Terms

Computer Science Wireless

Keywords

Congestion control, dynamic window, throughput, LTE, TCP, OPNET