Abstract

Long Term Evaluation (LTE) network, which primarily focuses on providing the high-speed communication for mobiles and other terminals/devices. In LTE the main mechanism is to process the traffic, which is done by the Packet Scheduler. Packet Scheduler is mainly responsible to send the packets to user nodes depending on the algorithm that is implemented at the Base Station. Packet scheduler is also responsible for queue management, scheduling of the packets, sending the packets to user nodes by allocating resources to them. Therefore, the key idea of paper is to implement a Scheduling Algorithm which meets the QoS requirements of LTE network. The performance analysis is done by comparing the NewQueue scheduling algorithm with the DropTail algorithm. Metrics that are used for comparing the performance are Throughput, Delay and Jitter.

References

1. Dardouri Samia, Bouallegue Ridha, "A New Scheduling Algorithm for Real-Time


8. 3GPP, Tech. Specif. Group Radio Access Network - Physical Channel and Modulation (Release 8), 3GPP TS 36.211.


19. Mohammad T. Kawser, Hasib M. A. B. Farid, Abduhu R. Hasin, Adil M. J. Sadik, and
Implementation and Analysis of Scheduling Algorithms for LTE Network


31. NS2 installation steps - http://ns2-ubuntu.blogspot.in


33. NS2 with LTE patch - www.linuxquestions.org

Index Terms

Computer Science

Networks
Keywords

LTE, Scheduling Algorithm, QoS, Packet Scheduler, NewQueue, DropTail