Abstract

The Long Term Evolution supports high peak data rates (100 Mb/s in the downlink and 50 Mb/s in the uplink), low latency (10ms round-trip delay) in different bandwidths ranging from 1.4MHz up to 20MHz. In mobile broadband networks like LTE, the high performance of the radio network can be realized with proper scheduling of resources for different types of services. The scheduling of resources in the transport network is an area which needs proper attention especially, for real time traffic like VoIP. During periods of congestion, real time services like VoIP can be severely impacted if there is a marginal increase in the end to end delay between VoIP packets or there is a packet loss in the transport network.
Therefore, the choice of scheduling strategies plays a key role in guaranteeing good end-to-end performance for both voice and data services. This paper presents various transport network scheduling strategies for resource allocation and their impact on real-time traffic in LTE networks. The study of this paper will be beneficial for understanding basics of LTE networks and scheduling schemes for further deep studies.

References


Index Terms

Computer Science
Communication

Keywords

Lte Networks  Voip  Scheduling Strategies  Qos