Abstract

WiMAX is a high speed, wireless broadband access technology for large coverage area. It provides IP based connectivity to the stationary, mobile as well as nomadic users. Voice over Internet Protocol (VoIP) through WiMAX is the most prominent telecommunication service. In this paper, simulative investigations have been done for VoIP in WiMAX network considering scheduling services [1]. Investigations have been done in terms of important Quality of Service parameters like jitter, packet end to end delay and Mean Opinion Score. Unsolicited Grant service has been identified as the most promising scheduling service for VoIP in WiMAX network.
- I. Adhicandra, &quot;Measuring data and VoIP traffic in WiMAX networks;&quot; Journal of Telecommunications, vol. 2, no. 1, pp. 1–6, Apr. 2010
- Gumaidah, B. F. , Soliman, H. H. and Obayya, M. &quot;Study the effect of Base Frequency on the performance of WiMAX network carrying voice;&quot; International Journal of computer Networks & communications (IJCNC), vol. 4, no. 4, pp. 77-88, July 2012
- Jadhav, S. , Zhang, H. and Huang, Z. , &quot;Performance evaluation of quality of VoIP in WiMAX and UMTS;&quot; in Proc. 12th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT2011), Gwangju, Korea, Oct. 2011, pp. 375–380

**Index Terms**

Computer Science Wireless

**Keywords**

WiMAX  VoIP  OPNET  jitter  MOS