

Abstract Details

Title: Evaluation VoIP over WiMax

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Abstract: Worldwide inter operability for Microwave access (WiMAX) is an 802.16 wireless communication standard that provides high speed, throughput and cover larger area. Besides quality of service support, IEEE 802.16 standard offer data rate upto 100mbps and cover area upto 50km. The VoIP is flexible and provides low cost telephony to customers over the existing IP infrastructure. However, there are still many challenges that need to be addressed to provide a steady and good quality voice connection over the best-effort Internet. In this paper we evaluate the performance of different VoIP codecs such as G.711, G.723.1 and G.729 over the best effort WiMAX network. The network performance metrics such as jitter used to evaluate the performance of VoIP codecs. The performance is analyzed by using OPNET Moeller.

Keywords: WiMAX, VoIP, OPNET 14.5