

Abstract Details

Title: Improving Quality of VoIP over WiMAX

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Abstract: Voice over Internet Protocol (VoIP), also called ipTelephony, is rapidly becoming a familiar term and technology that is invading enterprise, education and government organizations. VoIP is designed to replace the legacy TDM technologies and networks with an IP based data network. Digitized voice will be carried in IP data packets over a LAN and/or WAN network. Installing and testing the VoIP network of IP phones, gateways and servers requires new tools and expanded knowledge. In parallel, a remarkable increase is happening in the deployment of IEEE 802.16 standard based WiMAX networks. wimax is really will known term in telecommunication .in this paper we investigating the performance of VoIP traffic over WiMAX networks. OPNET modeler simulator have been used to design various scenarios by three codecs G.711, G.723 and G.729 to determine how it affect the jitter in wimax network also different topology have been applied " dividing area into cells" to enhance the performance of voip over wimax.

Keywords: WiMAX, VoIP Codecs, OPNET.