Abstract

In last few years, there has been significant growth in the area of wireless communication. Quality of Service (QoS) is a critical issue in the design and management of WiMAX (Worldwide Interoperability for Microwave Access) networks. These applications include Voice over IP, multimedia services, like, video streaming, video conferencing etc. The WiMAX Mesh network is based on IEEE 802.16 standard. This paper purposes an architecture to analyze the Quality of Service for Video Conferencing and Voice Application in WiMAX network. For analysis, a WLAN network has been developed using a popular network simulator Opnet 14.0. In the end, results in the form of graphs are presented. Parameters that indicate quality of service, such as,
throughput, network load and delay are analyzed for two types of service flows as defined in WiMAX. Results indicate that better quality of service is achieved by using real time service flows designed for specific applications.

References


Index Terms

Computer Science  Emerging Trends in Technology

Keywords

Differentiated Services  Video Conferencing  Voip  Wimax