Achieving Quality of Metric for Video Streaming Service in the Warehouse Application with Coexisting of IEEE 802.11 a/b/g Standards

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Authors:

K. Sakthisudhan

P. Thangaraj

G. Deepaprabha

Abstract

A 4G systems can provide a comprehensive IP based solution where voice, data, video streamed multimedia can be provided to users on an "Anytime, Anywhere" The aim of the work is to estimate quality of metric values with different IEEE 802.11 standards (IEEE 802.11. b /a/g), utilized for SIP (Session initialized protocol) video call setup procedure over wireless link scenario directed to mobile devices. We used two video call modes of operation
over heterogeneous WiFi standards. The proposed model application layers in SIP protocol based on multicast mobile agents used in two different modes of video call established. Initiate services through CBR used for Session control overhead packets. Our analytical model provides that the video call set-up performance, jitter and delay in peer to peer networks. Moreover, the call setup performance can be improved significantly using the robust in application link layer such as SIP with a comparison of WIFI heterogeneous network standards proposed in our paper and also to establish and maintain secure transmission via IP based security services such as ISAKMP protocol The analytical results were validated by our experimental measurement.

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