

Summary

This proposal has been prepared in response to the announcement of the deanship of Scientific Research at King Fahd University of Petroleum and Minerals (KFUPM) on September 29, 2004.

Internet connectivity is a main issue in the information age. Subscribers are not satisfied with their stationary access points to the Internet. The Internet is to be provided for subscribers on the move. Transport Control Protocol is a large extended and mostly used transport protocol that works well and efficiently with wired networks. It includes many features such as congestion control mechanism that works well with these networks. Nevertheless, the TCP protocol has been designed for the wired environment. When it is applied in the wireless or heterogeneous networks its performance has been found to degrade significantly due to mistaking the wireless errors for congestion [2]. In this literature survey we try to over look the issues arising when implementing the TCP over these networks and discuss the approaches tried out to overcome the performance degradation problems

The proposed work intends to characterize and evaluate the radio resource management function and quality of service control mechanisms necessary to support the newly emerging services in mobile and wireless integrated services. Towards these objectives, the researches will study the traffic services of interest and relevance to network operators in the area and also survey the existing functionality in terms of resource management and QoS control in conventional network infrastructure. These gained

results shall serve as input for the derivation and design stage of novel and efficient algorithms tailored to support the new network services while optimizing the performance of the overall network.