Abstract

Providing Internet services over wireless links has grown rapidly in recent years. TCP (Transmission Control Protocol) has been performing well over the traditional wired networks where packet losses occur mostly because of congestion, it cannot react efficiently in wireless networks, which suffer from significant non-congestion-related losses due to reasons such as bit errors and handoffs. The paper shows how Explicit Congestion Notification (ECN), Snoop protocol and their combination can be used to improve the performance of TCP in Wi-Max network, ECN will help in congestion control and SNOOP will retransmit the packets that are lost from nodes in between, saving nearly half the retransmission time and avoiding the decreasing in transmission speed. This paper investigates the performance of above mentioned protocols over Wi-Max wireless scenario which improves the various parameters of TCP such as throughput. The results of the same can be demonstrated on NS2 simulator (Wi- Max module ns–nist-wimax.tgz).

Reference

Performance Enhancement of TCP Using ECN and Snoop Protocol for Wi-Max Network


[12] Performance Evaluation of TCP over WLAN 802.11 with the Snoop performance Enhancing Proxy by Chi Ho Ng, Jack Chow and Ljiljana Trajkovic.


Index Terms

Electronics Wireless Communication

Key words
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