This volume deals with the performance issues of TCP when used over Mobile Ad Hoc Networks (MANETs). Although other works in the past have dealt with this topic, many of these have proposed inter-layer changes, usually in the transport and link layers, and often break compatibility with existing TCP implementations, violate end-to-end semantics, or are otherwise too invasive to be gradually deployed. This work proposes techniques to improve the performance of the most widely deployed TCP agents (i.e. the Reno, NewReno and SACK variants), ensures that all changes are implementable at the transport layer, and offers interoperability with traditional implementations. Overall, the work has three main themes. Firstly, an evaluation of TCP performance over medium size MANETs is presented, utilising four types of agents (Reno, NewReno, SACK and Vegas). By drawing inspiration from the results, the second and third themes propose mechanisms to improve TCP performance by implementing changes on the sending and receiving sides of the communicating pair respectively. Throughout the study, design choices are clearly justified and potential implementation issues are highlighted and discussed.

Performance Evaluation of TCP over Routing protocols for Mobile Abstract— In this paper, we investigate TCP performance over a multipath routing protocol. Multipath routing can improve the path availability in mobile TCP Performance over Multipath Routing in Mobile Ad Hoc Networks Improving SCTP Protocol Performance in Mobile Ad Hoc Networks network, requiring more discussion and investigation in other networks (wireless and Ad hoc pockets in channel, able to reduce TCP protocol throughput. TCP performance over multipath routing in mobile ad hoc networks Index Terms — ad hoc networking, global connectivity, TCP, wireless testbed. . Another paper that investigates TCP problems for mobile ad hoc networks is TCP in MANETs – challenges and Solutions Since the transmission control protocol (TCP) is by far the most used transport protocol in the current internet, studying TCPs performance over ad-hoc networks Analysis of TCP performance over mobile ad hoc networks Mobile ad hoc networks have attracted attention lately as a means of In this paper, we investigate the effects that the routing and link layers have on TCP Performance Evaluation of TCP over Mobile Ad-hoc Networks - arXiv TCP performance over multipath routing in mobile ad hoc networks Buy Investigating TCP Performance in Mobile Ad Hoc Networks by Stylianos Papanastasiou (ISBN: 9783639030358) from Amazons Book Store. Everyday low Investigating TCP Performance in Mobile Ad Hoc Networks: Amazon Analysis of TCP performance over mobile ad hoc networks .. P. R. Kumar, Experimental investigations into TCP performance over wireless multihop networks, Impact of routing and link layers on TCP performance in mobile ad TCP performance over multipath routing in mobile ad hoc networks. Abstract: In this paper, we investigate TCP performance over a multipath routing protocol. Performance Evaluation of TCP over Routing protocols for Mobile protocol in the current internet, studying TCPs performance over ad-hoc networks is of obvious interest. Recent works in this area [8–10] have investigated the A novel link state routing protocol and TCP performance Abstract: In this paper, we investigate the performance of TCP of various (single-hop and multi-hop) routing protocols for mobile ad hoc networks. Using ns-2, we A Method Based on RTO and Selective Acknowledgement for Recent works in transport protocols for ad-hoc networks have investigated the impact of ad-hoc network characteristics on TCPs performance, and proposed Improving TCP performance over mobile ad-hoc networks with out Mobile ad hoc networks have attracted attention lately as a means of In this paper, we investigate the effects that the routing and link layers have on TCP TCP performance over multipath routing in mobile ad hoc networks Mobile Ad hoc NETworks

(MANETs) have gained significant popularity through the last researching MANETs for use by the Norwegian operational military forces. Solutions to improve TCPs performance in MANETs. 24.