Abstract

This Mobile adhoc networks (MANETs), is a collection of mobile wireless nodes that self-organize without the aid of centralized control or any preexisting infrastructure. This paper presents the effect of MAC protocols (MAC 802.11, MAC/TDMA) on various routing protocols in order to choose the best routing protocol and MAC protocol to enhance the performance. The simulations comparing three adhoc routing protocols on various routing protocols named
DSDV, DSR and AODV implemented through NS2. With the help of performance metrics such as throughput and average delay it is shown that MAC 802.11 gives better performance than MAC/TDMA.

Reference

- Abdul Rahman and Abdul Hadi, Ahmed zukarnain “Performance comparison of DSDV, DSR, I-DSDV” European journal of scientific Research
- Anne Aoran and jieWeng “Performance Comparison of Adhoc Routing Protocols for Networks with Node Energy Constraints” class project spring 2000-2001
- Elizabeth M. Royer, Sung je Lee, Charles E. Perkins “The Effects of MAC Protocols on Adhoc Network Communications”
- Jyoti, Jain, Mahajabeen, Fatima, Dr. Roopan Gupta, Dr. k. Bandhopadhyway, “Overview and Challenges of Routing Protocol and MAC layer in Mobile ad-hoc Network”
- T. G. Basavaraju, Subir Sankar “Impact of MAC layer on the performance of Routing Protocols in mobile adhoc Network” International journal of information and communication engineering

Index Terms

Computer Science Wireless

Key words

MANET DSDV
DSR
AODV
MAC