Abstract

A Mobile Ad Hoc Network (MANET) is a network consisting of a collection of nodes capable of communicating with each other without aid from a network infrastructure. Each node participating in the network works both as host and a router and must therefore be willing to forward packets for other nodes. For this purpose, a routing protocol is needed. The most
important characteristics of MANET is the dynamic topology, nodes can change position
dynamically therefore a need of a routing protocol that quickly adapts to topology changes. In
this paper for experimental purpose, Investigators considered 150m x 150m, 250m x 250m,
350m x 350m, 450m x 450m, 550m x 550m, 650m x 650m & 750m x 750m terrain area and
illustrate the Drop packet analysis using DSR protocol parameters for wireless network
scenario. The Dynamic Source Routing protocol, a simple as well as an efficient routing protocol
is designed particularly for use in multi-hop wireless ad hoc networks, allows the network to be
totally self-organizing and self-configuring, without the requirement of any presented network
infrastructure or the administration. All aspects of the protocol work entirely on-demand,
permitting the routing packet overhead to scale automatically to only which needed to respond
to various changes in the different routes currently in use.

Reference

- D. Maltz D. Johnson, Y. Hu. The dynamic source routing protocol (dsr) for mobile ad hoc
- Yoo Y, Ahn S, Agrawal DP, “Impact of a simple load balancing approach and an
  incentive-based scheme on MANET performance” Journal of Parallel and Distributed
- Josh Broch, David A. Maltz, David B. Johnson, Yih-Chun Hu, and Jorjeta Jetcheva. A
  Performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols. In
  Proceedings of the Fourth Annual ACM/IEEE International Conference on Mobile Computing
  and Networking (MobiCom’98), pages 85–97, Dallas, TX, October1998 ACM
- David B. Johnson, David A. Maltz and Yih-Chun Hu, “The Dynamic Source Routing
  (DSR).
- Information Sciences Institute, “The Network Simulator – ns-2”, June 2004,

Index Terms

Computer Science Wireless

Key words
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