Abstract

Mobile ad hoc networks are the collection of wireless nodes which communicate with each other without the support of centralized infrastructure. Due to frequent node mobility in high mobility MANETs, the network topology changes dynamically. Each node in MANET acts as host and router. A routing protocol is used to discover route between nodes. Robust routing protocol is needed to allow the nodes to communicate in high mobility MANETs. This paper investigates the performance of single path routing protocol AODV and multipath routing protocol AOMDV under different mobility conditions. Performance evaluation of these protocols showed that AOMDV protocol is more robust than AODV protocol due to its capability of finding and using alternate routes in case of a route failure in high mobility MANETs.

References

22. “Wireless LAN medium access control (MAC) and physical layer (PHY) specifications”,...


Index Terms

Computer Science Wireless

Keywords

AODV, AOMDV, Multipath Routing, Robust Routing.