Abstract

Mobile ad-hoc network (MANET) is an autonomous system of mobile nodes connected by wireless links. Each node operates as a router to forward packets and also an end system. The nodes move free to organize themselves into a network. These node changes their position frequently. Special routing algorithm is needed to accommodate its changing topology. Flat routing protocols may be sufficient for small networks. Moreover either hierarchical or geographic routing protocols are needed in larger networks. Density, size and the mobility of the nodes are considered for choosing network protocols. In this Paper an rigorous attempt has been made for comparing the performance of two prominent distance vector routing protocols for MANETs: Destination Sequenced Distance Vector (DSDV) & Dynamic Source Routing (DSR) routing protocols. As per our findings there is a significant performance differentials for both of these protocols.


Index Terms

Computer Science Wireless

Keywords
Comparison of Routing Protocol under Network Topology Change for Mobile Adhoc Network

MANET, AODV, DSR, DSDV, Qualnet 5.0.2.