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 freely to organize themselves into a network. These nodes change 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
MANET, AODV, DSR, DSDV, Qualnet 5.0.2.