Abstract

MANETs are wireless temporary adhoc networks that are being setup with no prior infrastructure and with no centralized administrator node. MANETs have dynamic (no fixed) topology due to arbitrary (random) movement of nodes. These can be created on the fly for a single session or a temporary assignment. Routing of data packets in MANETs is a fundamental service for its usefulness. Various routing strategies have been proposed for mobile adhoc networks and these differ in Route Discovery mechanism developed for wired networks. AODV, DSR, DSDV, CBRP etc. are among the various routing strategies used in mobile adhoc networks. A brief performance evaluation with the help of simulation based on some key issues of MANETs is presented in this paper. The results can be helpful in selecting a routing strategy more suitable to a particular case of mobile adhoc network created.

General terms

MANET, Routing protocols, AODV, DSR, OPNET
References


Index Terms

Computer Science Networks

Keywords

AODV, DSR, OPNET, Performance.