International Journal of Engineering, Management, Humanities and Social Sciences Paradigms (IJEMHS)
(Volume 29, Issue 01)
Publishing Month: December 2017
An Indexed and Referred Journal with Impact Factor: 2.75
ISSN: 2347-601X
www.ijemhs.com

Abstract Details

Title: Performance Evaluation of Routing Protocols in MANET

Authors: Jitendra Kumar Ram and Shilpa

Abstract: Mobile Ad Hoc Networks (MANETs) use many different routing protocols to route data packets between the nodes. Efficient routing mechanism is a challenging task for group oriented computing in Mobile Ad Hoc Networks (MANETs). A MANET is a wireless mobile network that is self-forming, self-maintained and self-healing. In MANET's network nodes stay connected even as the network topology changes. The ability of MANETs to support adequate Quality of Service (QoS) for group communication is limited by the ability of the underlying ad-hoc routing protocols to provide consistent behavior despite the dynamic properties of mobile computing devices. A number of ad hoc routing protocols have been developed during the time, but none of these is able to produce efficient routing of packets in large number of nodes due to their own limitations. This Paper presents the performance of two routing protocols OLSR(Optimized link state routing protocol) and DSR(Dynamic source routing protocol) using metrics throughput, packets delivery ratio and End-to-end delay. The performance evaluation of routing protocols is done by using two different traffics i.e. TCP and UDP. Our Simulation tool will be NS-2.

Keywords: MANET, OLSR, DSR, TCP, UDP.