Abstract

Node cooperation is the basic paradigm for efficient functioning of MANETs (Mobile Ad hoc Networks). A paradigm shift from this trait causes the nodes to misbehave thereby affecting the network performance. Selfishness to conserve own resources, Maliciousness to disrupt the network fabric or Malfunctioning may cause the nodes to misbehave. MANET characteristics
like dynamism of topology, shared wireless channels and open infrastructureless architecture pose security threats to them. This paper examines and analyzes two currently IETF listed reactive routing protocols AODV and DYMO with varying speed of node mobility and varying degree of maliciousness. The performance metrics Packet delivery ratio, Average End-to-end delay & Jitter and Normalized routing overhead are compared when a varying percentage of nodes drop packets.

Reference


Index Terms
Mobility based Performance Analysis of AODV and DYMO under Varying Degree of Node Misbehavior

Key words
- Mobile Ad hoc Networks
- AODV
- DYMO
- Node misbehavior

Computer Science  Wireless