Abstract

A Mobile Ad-Hoc Network (MANET) is a collection of wireless mobile nodes forming a
temporary network without using any centralized access point, infrastructure, or centralized
administration. In MANET, Ad-hoc On-Demand Distance Vector (AODV) floods the control
packets to discovery the route. Generally there is a limit on the number of these packets that
can be generated or forwarded. Malicious node can disregard this limit and flood the network
with fake control packets so that these packets have the limited bandwidth and processing
power of genuine nodes in the network while being forwarded. Due to this, genuine route
requests suffer and many routes either do not get a chance to materialize or they end up being
longer than otherwise. This paper presents a simulation analysis of reactive routing protocol
AODV in the presence of malicious attack under different Load. We present the simulations
results based on packet delivery fraction, throughput, normalized routing load, and packet loss.

References
Detecting and Isolating Malicious Node in AODV Routing Algorithm


Index Terms

Computer Science

Mobile Networks

Keywords

AODV Throughput Normalized routing load Packet loss malicious node