

SIMULATION STUDY FOR AD HOC ON DEMAND DISTANCE VECTOR ROUTING PROTOCOL NETWORKS

¹SWETA VERMA, ²AJAY PRATAP, ³B.SUSHMA RAO

¹Galgotias College of Engineering & Technology, Greater Noida, India

²Delhi Institute of Engineering & Technology, Meerut, India

³Vasavi College of Engineering, Hyderabad, India

ABSTRACT

Recently, mobile ad hoc network has flexibility and independence of network infrastructures, such as base stations. Due to unique characteristic, that is, its dynamic network topology, limited bandwidth, and limited battery power, routing in a MANET is a particularly challenging task compared to a conventional network.

Security in Mobile Ad hoc Networks (MANETs) is an important issue that not only works well with a small network, but also sustains efficiency and scalability.

At present, several efficient routing protocols have been proposed for MANET. Most of these protocols assume a trusted and cooperative environment. However, in the presence of malicious nodes, the networks are vulnerable to various kinds of attacks. In MANET, routing attacks are particularly serious.

There are a number of routing protocols that provide good efficiency. Considering security has radically changed the situation, the existing routing protocols are designed with an assumption that the participating players and the network environment do not harm the security. Most of the secure routing protocols have the various disadvantages. The paper is divided into five sections. Section1 - Introduction ,section 2 - security in MANET , section3 -AODV Routing protocol ,section 4 - comparative study of AODV routing protocol, section 5 - experimental result . In this paper the simulation results of insecure AODV are studied using simulator NS2 for 10 nodes.

KEYWORDS: AODV, Mobile Ad-Hoc Networks (MANETSs) , Packet Dropped, Routing Protocol, Secured Networks, Throughput