Abstract

Wireless mobile ad hoc network (MANET) is a self-configuring network which is composed of several movable mobile nodes. Black Hole attack is one of the DOS attacks in MANET, which can misbehave with network, increase in network traffic, packet loss, decreases throughput, send false reply to the nodes and dropped data packets. Therefore, to analysis all these effects, a contribution has been made with modification of AODV routing protocol as a bhAODV (Black Hole AODV). To show the effect of black hole attack in AODV, result analysis is done using the comparison of AODV and bhAODV. In this paper we also contribute in AODV to provide a solution for Black Hole attack (sbhAODV). Network Simulator (NS 2.35) is used to implement bhAODV and sbhAODV, simulation and result analysis.


**Index Terms**

Computer Science

Networks

**Keywords**

MANET, AODV, bhAODV, sbhAODV, CBR, Black Hole attack, malicious node, PDR, NS-2.