

## Master AODV Algorithm to mitigate Black hole attack in MANET

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**Abstract**— Security is a highly challenging issue in ad hoc networks. To identify different possible attacks is the first step to develop a good security solution. If malicious nodes are present in the network, it will reduce the performance and reliability of the network. In Black hole attack, nodes called as malicious nodes drop the packet instead of forwarding towards destination. In this way, a Black hole attack degrades the performance of the network. Various performance metrics like Throughput, Packet delivery ratio, Delay, packet drop ratio are identified and the performance of the MANET for these metrics is compared when there is an attack in the network and when we have applied a prevention technique. The performance of MANET has improved considerably after applying the proposed prevention technique to the Blackhole attack in AODV routing protocol. The performance metrics showed that the performance is very good when the existing protocol is replaced with the proposed technique using NS2 simulation tool.

Keywords- MANET, Routingprotocol, Security,Blackhole attack,Prevention.

