Abstract

In this paper, we propose a cross layer approach to detect the malicious node (Black hole attack) in MANET. In this approach, the malicious node is detected by the collaborative decision made by the network layer, MAC layer and physical layer on the basis of the parameters passed by the physical and the link layer to the network layer using cross layer design, and then the best path is selected among the various paths between the source node and the destination node. The routing protocol which is used in the simulation is AODV. The malicious node is then deleted from the routing table and the performance of our technique is proved by the simulation of our system model using the network simulator NS-2.

References

A Cross Layer Approach for Intrusion Detection in MANETs


Index Terms

Computer Science

Security

Keywords

MANETs AODV Cross Layer Intrusion Detection.