Abstract

Mobile ad hoc network (MANET) has emerged as a new frontier of technology to provide anywhere, anytime communication. Due to its deployment nature, MANETs are more vulnerable to the blackhole attack. The blackhole attack is packet dropping attack behaves like normal node at the time of connection establishment and after forward false reply of destination to sender drops all the data packets. In this attack one or more than one malicious nodes create a secure environment with the presence of other normal nodes. The proposed IDS (Intrusion Detection System) is identified the nodes those are not forwarded the data packets continuously about node exist in network and provides the secure communication in dynamic network. The attacker is only the nodes which are not forwarded packets to destination and also attacker/s is being a part of communication with each and every sender. The proposed IDS are not detecting single blackhole but also able to handle multiple blackhole. The attacker nodes dropping are very harmful that dump actual performance of network. The routing protocol is not able to defend the network from malicious activities. The black hole attacker is network layer routing attack and the proposed scheme is surely removes the attacker infection from the dynamic network and
improves network performance.

**References**

10. Sathish, Arumugam, S.Neelavathy Pari, Harikrishnan V," Detection of Single and Collaborative Black Hole Attack in MANET", This full-text paper was peer-reviewed and accepted to be presented at the IEEE WiSPNET 2016 conference.

**Index Terms**

Computer Science  Wireless
Keywords

Blackhole, MANET, Routing, Security, IDS, Malicious nodes,