Abstract

An ad hoc network is a collection of wireless computers with dynamically changing topology, communicating among themselves over possibly multi-hop paths, without the help of any infrastructure. Although many ad hoc network routing protocols have been proposed (AODV, SAODV, DSR etc), none of them considers or solves the security problems efficiently within the restrictions of ad hoc networks. Ad hoc networks are vulnerable to many types of attack like Denial Of Service (DOS), Byzantine Attack, Black-hole Attack, Flooding Attack, etc. In this paper we put forward an efficient and reliable security mechanism based on the AODV routing protocol which protects the ad hoc networks from different types of flooding attacks.

References

Flood Tolerant AODV Protocol (FT-AODV)

- Mobile Ad hoc Networks: Challenges and Future Kavita Taneja and R. B. Patel
- B. Awerbuch, D. Holmer, C. Nita Rotaru and Herbert Rubens. &quot;An On-Demand Secure Routing

Index Terms

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Wireless networks  protocols  ad hoc network  security  flooding attacks  aodv protocol