Abstract

An ad hoc network is the assortment of cooperative wireless nodes without existence of any access point or infrastructure. The presence of malicious nodes in an ad hoc network deteriorates the network performance. A novel approach for malicious nodes detection is proposed here to protect against DoS attack in ad hoc on-demand distance vector routing protocol. The proposed approach employs a method for determining conditions under which malicious node should be monitored. Apart from identification of malicious node, it has been observed that this approach leads to less conservation and less communication breakage in ad hoc routing. The experimental results demonstrate that the proposed approach can effectively detect malicious nodes.

Reference
Methodology for Detecting and Thwarting DoS in MANET

- Abhay Kumar Rai, Rajiv Ranjan Tewari and Saurabh Kant Upadhyya, Different types of attack on integrated MANET –Internet Communication.
- Georgy Sklyarenko,"AODV Routing Protocol," in
- MatriNr : 3935701*.
- Sonja Buchegger, Jean-Yves Le Boudec, Nodes bearing Grudges: Towards routing security, Fairness and Robustness in mobile Ad hoc networks.
- Geng Peng and ZouChuanyun,Routing attacks and solutions in Mobile Ad-hoc Network.

Index Terms
Computer Science  Security

Key words
protocol MANET AODV routing
of Service Denial