Abstract

MANET network is a type of decentralized network and is high vulnerable network which requires secure communication. A significant security issue in manet is to protect the network layer from malicious nodes that misbehaves often to obtain the data that is not broadcasted for them i.e. gray hole attacks aka selective forwarding attack that leads to denial of service attack (DoS). In this paper The overall objective is to find the nodes which frequently misbehaves and based upon their miss ratio they will be eliminated from the network. The proposed strategy does not allow unauthorized nodes to access the data frames multicast by the initiators. The proposed strategy is designed and implemented in MATLAB using mathematics toolbox. The experimental results have shown significant improvement in detecting the malicious nodes.

References

- A. Boomarani Malany, V. R. Sarma Dhulipala and RM. Chandrasekaran,
Detecting and Preventing Attacks in MANET


Index Terms

Computer Science
Security
Keywords
Gray hole attack  Miss ratio  Multicasting