Abstract

In recent days, Mobile Adhoc Networks have emerged as a major next generation wireless network technology. The wireless and distributed nature of MANETs paves way for the intruder to degrade the functionality of MANET. MANETs are vulnerable to numerous attacks at all layers, because the design of most MANET routing protocols assumes as if there is no malicious intruder node in the network. MANET is a collection of self configurable mobile nodes where each node acts as a router for other nodes, which allows data to travel, utilizing multi-hop network paths. In this paper, we made an exhaustive survey on various attacks in MANET and we try to categorize various attacks on the physical layer.
A Taxonomy of Physical Layer Attacks in MANET


- M. A. Zafer, D. Agrawal, and M. Srivatsa, "Bootstrapping Coalition MANETs: Physical-Layer Security under Active Adversary"

- K. Sivakumar and Dr. G. Selvaraj, "Overview of various attacks in Manet and countermeasures for attacks", International Journal of Computer Science and Management Research, Vol 2 Issue 1, ISSN 2278-733X, January 2013


- V. Balakrishnan and V. Varadharajan, "Designing Secure Wireless Mobile Ad hoc Networks", Information and Networked System Security Research Group

- D. Devi Aruna and Dr. P. Subashini, "Securing Physical and network layer using SNAuth-SPMAODV with DSSS for Mobile adhoc networks in Military Scenario"

2013
- Zubair Muhammad Fadlullah, Tarik Taleb, and Marcus Schöller, "Combating against Security Attacks against Mobile Ad Hoc Networks (MANETs)".
- Vikrant Gokhale, S. K. Gosh, and Arobinda Gupta, "Classification of Attacks on Wireless Mobile Ad Hoc Networks and Vehicular Ad Hoc Networks a Survey".

Index Terms

Computer Science
Networks

Keywords

MANET  MAC  DSSS