Abstract

In nature of the transmission medium the broadcast, Wireless sensor networks are vulnerable to security attacks. The nodes are placed in a hostile or dangerous environment where they are not tangibly safe in the MANETs. In many application, the data obtained from the sensing nodes need a false, or malicious node could intercept private information or could send false messages to nodes in the network. Among the major attacks Eavesdropping, Spoof Attack, Denial of Service, Wormhole attack, Sinkhole attack, Sybil attack, Selective Forwarding attack, Passive information gathering, Node capturing, and False or malicious node, Hello flood attack are common. In this paper, authors have proposed and implemented an efficient light weighted authentication secure routing protocol on top of an AODV. The focused area of the proposed routing protocol is increasing the network security of the MANET. Additionally, the paper evaluates the implemented protocol using NS2 simulator in different networks with SecAODV.

References
4. Marwan Krunz and AlaaMuqattash,”A Power Control Scheme for MANETs with Improved Throughput and Energy Consumption.”
19. MD ASRI NGADI TAMEEM EISSA, SHUKOR ABD RAZAK. Authentication scheme for mobile ad hoc networks. Faculty of Computer Science and Information Systems, UNIVERSITI TEKNOLOGI MALAYSIA SKU- DAI, JOHOR, MALAYSIA.


Index Terms

Computer Science

Networks

Keywords

MANET, SecAODV, Light Weight Authentication, QoS