Abstract

IEEE 802.11 wireless network contains various problems such as packets delay and drop because of collision due to the heavy traffic. Packets are dropped either by the buffer overflow or by the MAC layer contentions. Such packet losses decrease throughput. Packet delay is also a result of poor utilization of network capacity when it is integrated with routing algorithms. Routing protocol contains very serious security issues in adhoc network. SAODV, SEAR and SEED protocols are used for solutions. But when some security measures are taken it may results in decreasing the throughput. Even network security in infrastructure mode for Wi-Fi point is of great concern where pre-RSNA as well as RSNA methods fail to provide proper security. This paper simulates such problems in NS2 and proposes the model of securing and increasing the throughput with least delay.
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**Index Terms**

Computer Science  Wireless

**Keywords**
ad hoc network  LAN  mobility  radio frequency  wired  wireless Network and IEEE 802. 11  AODV  SAODV.