Abstract

Security is one of the most challenging issues in Mobile ad-hoc networks (MANETs). Most of the routing protocols in MANETs do not have an inbuilt mechanism to fight security attacks. Sybil attack is one such attack in which a single physical device takes on multiple identities in network thus behaving as multiple independent devices. With the help of these forged identities, the attacker can draw more benefits from the network by asking for more resources with the help of the multiple fake identities. The paper analyses the impact of Non-Simultaneous Sybil Attack on Dynamic Source Routing protocol (DSR). Its effect has been studied on performance metrics - End to End Delay and Throughput.

Index Terms

Computer Science  
Security

Keywords

Mobile Ad-hoc Networks  Sybil Attack  DSR  Network Security.