A Novel Technique to Detect and Isolate Selective Packet Forward Attack in MANET using Acknowledge based Scheme

Abstract

MANET stands for Mobile Ad hoc Network. It is a robust infrastructure less wireless network. It can be composed either by mobile nodes or by both fine-tuned and mobile nodes. In MANET routing protocols for both static and dynamic topology are utilized. There are several security issues in MANET. Due to this various types of attack can be triggered easily in MANET. Selective packet drop attack is very easy to perform but indulge to isolate it. Network parameters are affected due to this attack and they degrade the performance of the network. In this paper, a novel technique is proposed to detect and isolate selective packet drop attack based upon IDS acknowledge based scheme after applying Diffie-Hellman technique. This novel technique isolated and detected attack in the network and improves its throughput and
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decrease packet loss.

References

- Chuachan T., Puangpronpitag S., "A Novel Challenge & Response Scheme against Selective Forwarding Attacks in MANETs," 2013 IEEE


Index Terms

Computer Science

Networks

Keywords

Manet Selective Packet Drop Attack.