Abstract

The advent of mobile and miniature devices in wireless technology gives rise to new paradigm called Mobile Ad-hoc Network (MANET). MANETs are self-maintaining, self administered dynamic network. MANETs are vulnerabilities in the MANET due to its intrinsic characteristic that make it insecure against various security threats. The black hole attack is forthcoming among them that are launched on AODV protocol. In these attacks, a malicious node disrupts data transmission by sending false routing information containing very high sequence numbers. To deal with these attacks, we proposed an incentive mechanism that protects network against this attack. This mechanism is integrated into route decision making process of the AODV protocol to defend the black-hole attack.

References

A Fortify Approach to Secure AODV Protocol against Black Hole Attacks

Attacks in AODV Based MANETs

Index Terms

Computer Science

Security
Keywords
AODV  Black hole attack  Gray-hole attack  security  sequence number.