Abstract

Mobile Ad-hoc network is widely used as emerging technology in many applications. It is also
Intrusion Detection System of Mobile Ad Hoc network based on Extension Techniques of Watchdog

vulnerable to various network layer attacks, because of its network architecture and its routing protocol. Watchdog is the widely used intrusion detection system. Recently, several schemes have been introduced to overcome the limitations of watchdog which results in additional packet overhead in the network. The proposed scheme is based on clustering approach and it effectively detects the shortcomings of watchdog namely limited transmission range, receiver collision, false misbehavior report and collusion problem. About 37% decrease in the end to end delay is achieved when proposed method is used in the network. The security level of the network is further enhanced by the use of Diffie-Hellman key agreement algorithm.

References

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