Abstract

Secure data transmission is essential in Wireless Sensor Network (WSN) to protect sensitive communications in the network. To improve the security of such network, this project proposes a successful routing among authentic nodes with adversary nodes inside the network, and forms the secure wireless sensor network. The authentication protocol will enable the receiving end to affirm that the packet has originated from a genuine node. It will preserve the integrity as
well as authentication and confidentiality. Impersonation attack can be prevented in which a node will pretend like other node and sends the request to base station. Trust values to nodes make it more secure system. Performance of the proposed system evaluated based on the parameters such as delay and transmission overhead. General Terms

References

- D. Liu and P. Ning, &quot;Multi-level TESLA: Broadcast authentication for distributed sensor networks,&quot; ACM Transactions in Embedded Computing Systems (TECS), vol. 3, no. 4, 2004

Index Terms

Computer Science

Wireless
Keywords

Wsn  Authentication  Trust  Impersonation Attack  Chinese Remainder Theorem  Encryption