Abstract

This paper creates the secure medium for communication using ECC for fully-automated vehicle network. The proposed protocol given in section 4 achieves the highest level of security and guarantees the safety of vehicles, user, and service provider. The Proposed protocol consists of two phases, key generation, and data transmission. Both the phases are practically being secure and lightweight process because of ECC. Security Analysis of the proposed protocol is given with the help of mathematical proof.

Further modifications and developments of the system are given in future scope section.

References

2. Khandare, Nikhil B. "Performance Analysis of Cryptographic Protocols to Enhance SMS
Secure Fully-Automated Taxi Service using ECC

and M-Commerce Security.


Index Terms

Computer Science Security

Keywords