Abstract

In the first paper of this work, the design and the architecture of our proposed model framework, VANET Security as a Service (VSaaS), was discussed. In this second paper, the performance metrics measurements will be investigated through the NS2, SUMO and Trans simulations, to evaluate the security overhead of the secure Vehicle Information Messages (VIMs), which are sent by the vehicles to the cloud as a coarse-grained information. Moreover, our proposed model framework (VSaaS) will be discussed against the security requirements in the VANET.

References

Design a Cloud Security Model in VANET Communication: Implementation, Performance and Security Analysis


Index Terms

Computer Science Security

Keywords

VANET, Cloud, VSaaS, Certified Authority, Cryptography, Vehicle Information Messages, Traffic Information Messages, Authentication, Privacy, Security Overhead