

Abstract

In this paper, a framework has been implemented for applying a secured automatic notification system. A secured module, containing Rijndael Encryption Algorithm has been proved. The system can: send and receive data using Global System for Mobile communications (GSM) Modem; SIEMEN Modem, store sent and received data into database; Structured Query Language (MySQL) for future auditing and sent data to be forwarded along Internet domain automatically under Simple Mail Transfer Protocol (SMTP) with two data suggested security model. The performance of implemented communication secured system is related to Short Message Service (SMS) communication density, its reliability and robustness along transmission medium suggests. The coupling level of parallel SMS/SMTP communication is defined to represent the communication density; it is proved to be significant in communication since a higher coupling level generates more message forwarding from terminals on GSM network. The technology is useful in the field of computer engineering in terms of communicating securely through GSM network and beyond.