

## ABSTRACT

Computer network security as a part of an information system is considered to be very important in order to maintain its data validity and integrity as well as to guarantee service availability for its users. The system have to be protected from any attacks and any intrusions or scannings by irresponsible unauthorized parties.

Common network intrusion detection system available today has the capability of detecting various attacks without taking any further actions. They are also not providing any interactivity with the system administrator while the administrator is away from the system. This is definitely an ineffectivity especially when the system is under a critical circumstances.

Discussed within this final assignment, the design and implementation of an automatic and interactive network intrusion detection system which have the capability of detecting any suspicious network activity, executing further preventive response and also interacts with the system administrator using two-way SMS (Short Message Service) media.

Keyword : Firewall, SMS, network security, intrusion detection, interactive, automatic