A Novel Network Security Algorithm Based on Encrypting Text into a White-page Image

Ahmad Abusukhon, Zeyad Mohammad, and Mohammad Talib

Abstract—*Nowadays many of the human activities (e.g. buying and selling products) are done online through the Internet using specific applications. These applications require that he or she pass sensitive data (such as the credit card secrete code, passwords, money transaction) through the global network. The success of such applications depends on keeping these data secret and protected from hackers (A hacker is the third party who is fishing for sensitive data through the Internet).*

There are various methods to protect data from hackers such as hashing techniques, digital signature, and data encryption techniques. In data encryption technique, data are transformed into unreadable form making it difficult for hackers to guess the original message.

This research focuses on data encryption technique and propose a new method for data encryption based on encrypting the plain text (the original message) into a white page image (called the cipher text).The proposed algorithm is implemented using java platform, tested, and analyzed.

Index Terms— **Secure communication, Private key, Encryption, White- Page Encryption.**