Cryptography- A Secure Approach for Message Communication

Riya Grover

Dronacharya College of Engineering, Gurgaon, India

Abstract: *Cryptography The goal of cryptography is to provide an end-to-end secure communication. For instance, if Person A is talking to Person B, then the goal of cryptography is that to secure this communication so that only Person A and Person B can understand this conversation and hence, it is secured. Encryption and decryption are the most efficient way to achieve the goal of data security as well as data privacy. Data security and privacy are major concerns in the world of message communication. Encryption can be defined as a technique which follows an abstraction method and hides the original data and it can be only retrieved using a key known as decryption key and this process is known as decryption. Encryption and decryption can be achieved using different techniques and methods such as for symmetric encryption algorithms used are AES, 3-DES, SNOW. Cryptography plays an important part in securing the messages through encryption and decryption.*

Keywords: Cryptography, Encryption, Decryption, Encryption Algorithms, Secure Messaging

REFERENCES

[1]. RIMAN, C., and Abi-Char, P. E.: Comparative Analysis of Block Cipher-Based Encryption Algorithms: A Survey. Information Security and Computer Fraud, Vol.3, No.1, 1-7, (2015).

[2]. Elminaam, D. S. A., Kader, H. M. A., & Hadhoud, M. M.: Performance Evaluation of Symmetric Encryption Algorithms. International Journal of Computer Science and Network Security, Vol.8, No.12, 280-286, (2008).

[3]. Omar G. A., Elsadd, M. A., & Guirguis, S. K.: Investigation of Cryptography Algorithms used for Security and Privacy Protection in Smart Grid. In Power Systems Conference (MEPCON), 2017 Nineteenth International Middle East, IEEE, 644-649, (December 2017). 4- Sridevi, C.: A Survey on Network Security. Global Journal of Computer Science and Technology (2018).

[4]. B. A. Forouzan, "Cryptography and Network Security", TMH

[5]. A_Survey_on_Cryptography_Alalgorithms