DEVELOPMENT OF ADDA (ADDITIONAL DATA) ALGORITHM FOR 10T SECURITY AND PRIVACY





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Abstract

Internet becomes one of the basic necessities of a person. From simple sharing of data and information. Internet nowadays offers millions of things such as free storage. free communication. Privacy and Security Issues are being compromised with the so many things that Internet provided. Billions of IoT devices will be released in the market by 2020 [1]. To secure connection between devices, the researcher added additional security using ADDA Algorithm. This algorithm will add additional blocks to the traditional encryption for additional security to the gateway of a particular IoT device. There are three (3) parameters to be used in this study to provide security and privacy for IoT sites and devices. These are the accuracy, encryption speed, and decryption speed of data. In this study, the researcher explains the step-by-step details of how the ADDA algorithm works and makes IoT devices secure for day-to-day use by making a new algorithm. With the results generated, the ADDA algorithm gives additional protection to already encrypted data by adding characters based on the algorithm created. The result of encrypting data using the adda algorithm was exceptional due to the high percentage rate of the test conducted.

Keywords:

Internet of things, IoT, Privacy, security

