

ABSTRACT

Implementation of message encryption protection with Algorithm AES (*Advanced Encryption Standard*) for insertion of image based messages as cover

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Security is an important aspect in information system, in the exchange of information often arise the problems of data duplication or data theft. Both between recipient and the sender of the information data must be maintained. To improve the security can be done with cryptographic technique and steganography. The purpose of this final task is to produce an application program that can provide security protection text message in to image. In applications created using the two techniques, for message encoding done by using cryptography AES 256 bit, then the ciphertext message is inserted using steganography LSB in to the image file in bmp, png and jpg format. The result of this last task is an application that produces image file that can accommodate secret messages after encryption, embed and produce smaller encryption files than the original files in the image png and bmp format. The Opposite with jpg formatted files generate files larger than the original file.

Key word: AES (*Advanced Encryption Standard*) 256 bit, *Least Significant Bit* (LSB), picture, Android