ABSTRACT

Development of information technology already possible for every sides (example music industries) for making interaction with consumer by computer networking. The activity will emerging risks if the information which have a sensitive and important value, can be access by any side who has not concern, so it needs security data system. One of the way for handle that problem is by encryption file method.

From the consumers / users side, of course the quickly *response time* being one of the parameter which is very important to access mp3 file. In this final project will study technic of partition block cipher with expecting that can be improve the *decipher* performancy by "*online*". The method that use in this research are literature study, design and implementation, testing and analysis,.

The output of this final project is implementation of encryption-decryption using twofish algorithm for MP3 file with technic block cipher partition. The parameter which analyze are plaintext size vs ciphertext size, decryption time, decryption time between partition block cipher vs non partition block cipher, and total of optimal partition for any different file size.

Keywords :

Encryption, decryption, twofish algorithm, mp3 file.