

ABSTRACT

SMS (Short Message Service) is a service provided by the operator to transmit or receive a message. SMS is a service that is practical and includes cheap. But if the message that we send a message that should not be seen by other people then there will be problems of data security.

Therefore in need security message on the smartphone by using cryptographic algorithms then the message can be encrypted and decrypted properly. Her method uses Android in the programming will be in use AES algorithm.

Avalanche effect is one of the characteristics that determine whether or not its a cryptographic algorithm with a small change in the plaintext will cause significant changes to chippertext that produced . Avalanche effect on the value of said well if changes resulting bits ranging between 45-60 % . The test results menunjukan that the avalanche effect of AES algorithm ranged between 45-60 % . With this value will make the difference that is quite difficult to carry out an attack cryptanalyst .