Abstract

Encryption is of prime importance when confidential data is transmitted over the network. Varied encryption algorithms like AES, DES, RC4 and others are available for the same. The most widely accepted algorithm is AES algorithm. We have developed an application on Android platform which allows the user to encrypt the messages before it is transmitted over the network. We have used the Advanced Encryption Standards algorithm for encryption and decryption of the data. This application can run on any device which works on Android platform. This application provides a secure, fast, and strong encryption of the data. There is a huge amount of confusion and diffusion of the data during encryption which makes it very difficult for an attacker to interpret the encryption pattern and the plain text form of the encrypted data. The messages encrypted by the developed application are also resistant to Brute-Force and pattern attacks. The various uses of this application in real life and its functionality are explained in this paper.
SMS Encryption using AES Algorithm on Android


Index Terms

Computer Science
Security

Keywords

SMS AES Android Application