Abstract

LTE (Long Term Evolution) is the fourth generation of mobile communication systems, Novel cryptographic algorithm based on enhancement at RC6 algorithm presented here. Using two parallel RC6 at connect them together with some functions in order to use 256 bit input block instead of 128 bit input block as the usual RC6. This proposed method makes the encryption decryption process faster, stronger, and more secure against attacks. The algorithm applied to many types of data files, shown in MATLAB how it works. The results are compared with EEA2 (EPS Encryption Algorithm 2) used in LTE as EPS stands for Evolved Packet System.

References


Index Terms

Computer Science

Algorithms

Keywords

LTE; encryption; AES; RC6