

Abstract

A cryptographic communication system and method. The system contains two devices and communication between them. System is used to send message that is enciphered to ciphertext at first device called encoding terminal. Later message can be decoded on second device called decoding terminal. Message called M before encryption is series of number $M_1, M_2 \dots M_n$ where n is called length of message. Message after encryption called ciphertext or N is series of numbers N_1, N_2, \dots, N_k where k is natural number larger than n and is k called length of ciphertext. Series of numbers N_1, N_2, \dots, N_k contains randomly generated numbers and numbers $M_1, M_2 \dots M_n$ each modified by some of random numbers based on key. That is there is another series of numbers K_1, K_2, \dots, K_z called key. Those numbers are used to establish how to chose n number from N series and to xor them with M series. Although system is established for numbers it is important to mention that all symbols and alphabets can be represented as numbers. As such system might be used to encrypt any message built with any alphabet.