

ABSTRACT

Today information technology through the medium of sound is already highly developed as the Push-to-Talk. But the issue of data security is very important to keep those who do not have the right to not be able to access information freely. Then the required method / technology to hide or secure the information that is by cryptographic methods to overcome this problem.

This research will discuss about the security of the stream cipher algorithm HC-256. This study will build Java-based applications that will be used on Android. Applications to be built that is Push-to-Talk that can encrypt and decrypt input stream cipher algorithm output using HC-256 as a security method.

This study was conducted to analyze the performance of the algorithm HC-256 on push-to-talk. HC-256 is working properly, delay <1 second, 0% of packet loss, and the avalanche effect close to 50%.

Keywords : Cryptography, HC-256, *push-to-talk*, secure voice