

1. SYNOPSIS

As the result of growth in technology utilization, the usage of data has increased. Transfer of data from one system to other system is made possible with new technologies. This results in the problems of security and dependability. In order to provide efficient transfer of data without allowing intruders to guess data, security plays the important role. Dependability is to recover original data in case of any errors. In order to achieve these two properties several algorithms came in existence. Usage of these algorithms results in fast and secure transfer of data

By using RSA algorithm the input file is encrypted and the encrypted file is compressed by using LZW compression algorithm. The resultant file is transferred to client system along with keys which include private key of RSA algorithm. After receiving files, client will execute LZW decompression algorithm to retrieve encrypted file, Later by executing RSA decryption algorithm the original file is retrieved. By using these two algorithms we can achieve security and as well as faster transmission.