

## A SURVEY ON SECRET KEY ENCRYPTION TECHNIQUE

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### ABSTRACT

Cryptography renders the message unintelligible to outsider by various transformations. Data Cryptography is the scrambling of the content of data like text, image, audio and video to make it unreadable or unintelligible during transmission. As the data may include some sensitive information which should not be accessed by or can only be partially exposed to the general users. The principal goal guiding the design of any encryption algorithm must be security against unauthorized attacks but performance and the cost of implementation are also important concerns. This paper provides the comparison between the three popular secret key encryption techniques, i.e., DES, AES and the Blowfish with modes of operation. The comparison has been conducted by calculating the avalanche effect of these encryption techniques and compares them on the basis of their result.

**KEYWORDS:** AES, Blowfish, Cryptography, DES, Encryption, IV (Initialization Vector)