

# **IMPLEMENTATION OF 128 BIT (RIJNDAEL) AES ENCRYPTION METHOD ON RESIDENTIAL FILE SECURITY**

***(Case Study: Gunung Lingai Village, Samarinda)***

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## **ABSTRACT**

*The confidentiality of data is a very valuable asset and must be maintained so that it is not known by parties who have no interest, especially personal data. One of the personal data that must be kept confidential is population data related to NIK, Family Card, and Resident Data which is confidential. If population data is lost and misused by irresponsible parties, it can harm the party who has the personal data. Therefore, a study was conducted that aims to create a system that can secure data by encrypting and decrypting population data in file form (PDF, DOC, XLS, and TXT) using the 128 Bit AES encryption & decryption method (Rijndael). The results of this study will produce a Population File that has been encrypted in the form of ciphertext.*

**Keywords:** *Population File, Encryption, Decryption, AES-128 Bit (Rijndael).*