IMPLEMENTATION OF AES ALGORITHM FOR PERSONNEL DOCUMENT SECURITY

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ABSTRACT

The issue of data security and confidentiality is an important aspect of an information system. This is closely related to how important it is for the information to be sent and received by interested people. Cryptography is a field of science that aims to maintain the confidentiality of messages from unauthorized parties. SD Negeri 285 Sompe is one of the educational institutions in Wajo Regency. So that the threat of data or document piracy does not occur at SD Negeri 285 Sompe, the author will build a data security system using AES algorithm cryptography to secure data or personnel documents at SD Negeri 285 Sompe. The aim of this research is to secure documents using the AES algorithm. Files that go through the encryption test will turn into files that cannot be read. The files can return to their original form if they go through the decryption process using the same key during encryption. From the research results, it has been proven that the contents of the initial file that undergoes the encryption process, then through the decryption process, will return to the original file.

Keywords: cryptography, security, document, encryption, description, advanced standard encryption (AES)