

A Secure Collaborative File Sharing System

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***Abstract:** To secure data within a group, this concept suggests a signature technique. Data should be signed by all group members if a sensitive file is linked to more than one person in order to ensure group security. The document is signed by every group member, and only the collective verification of every member serves as verification. Consequently, guard against authentication theft. In order to accomplish the properties of group signatures while maintaining high security, a new group signature strategy based on a discrete logarithm problem is developed. This suggested approach would enable quick generation of the signature. Additionally, the group signature verification method might be completed quickly. Important messages can be protected using this group signature system. The group signature system that has been presented might work for e-commerce applications.*

Keywords: Group Signature, File sharing

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