

# A DATA ENCRYPTION AND FRAGMENTATION TECHNIQUE

Tech ID # GMU 07-021

Patent No. US 08,082,452

## Description of Technology:

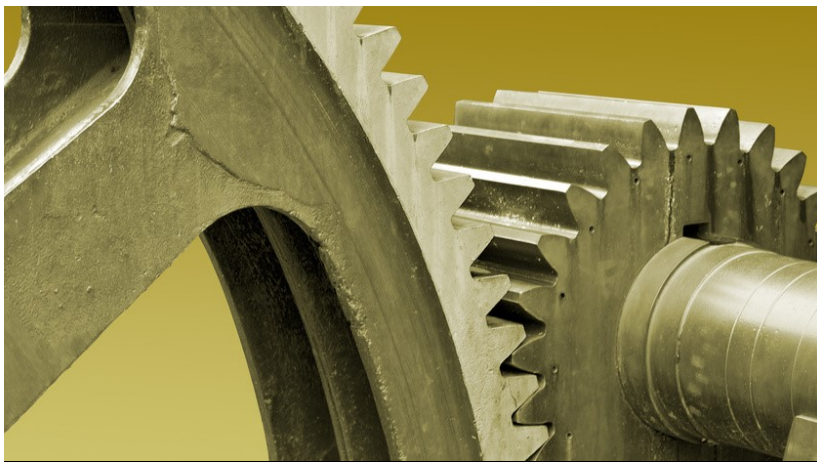
It is the associations between sensitive data rather than the information itself that is most valuable to hackers. Today's businesses collect and store a plethora of information, but data breaches are becoming more ubiquitous, increasing the need for security at every level. This technology is designed to be used in enterprise software such that it encrypts and fragments personal data for security purposes. By encrypting only certain categories of data (i.e. bank account numbers) and further fragmenting unencrypted data away from encrypted material, sensitive information is protected from hacking. Furthermore, because only portions of data are encrypted, recalling the data is quick and system speed is not compromised.

## Primary Investigator:

Dr. Sushil Jajodia is a Professor and the founding director of the Center for Secure Information Systems in the Volgenau School of Engineering at George Mason University.

## Advantages:

- The benefits of data encryption are achieved without speed loss
- Adds an additional layer of security to software behind firewalls
- Ideal for software that must meet HIPPA privacy requirements



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