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The Self-Encrypting Drive (SED) simply means that all of the data written to the storage medium is encrypted by the disk drive before being written and decrypted by the disk drive when it is read.

**Segate Secure Self-Encrypting Drive:**

Seagate Secure self-encrypting hard drives keep your data safe even if your drives are lost, stolen or misplaced.

**Encryption algorithm and cipher mode:**

Advanced Encryption Standard (AES) is used in Seagate Secure self-encrypting disk drives and a block encryption mode called Cipher Block Chaining used.

**Encryption Keys:**

No keys are stored on the media in clear text format. All data encryption keys are stored as encrypted objects using their respective data band passwords as the encryption key. If a data band is not conditioned to lock automatically on a power cycle, its DEK is encrypted using a secret key, known only to the drive, prior to storage on the media.

**Certifications:**

Seagate Secure self-encrypting hard drives have been certified by the US National Institute of Standards and Technology (NIST) and the Canadian Communications Security Establishment (CSE) as meeting the Level 2 security requirements for cryptographic modules, as defined in the US Federal Information Processing Standards (FIPS) 140-2 Publication.