Third level (outer)
Heavily obfuscated dataset & second level encrypted with 5 terms

Second level (middle)
Obfuscated dataset & first level encrypted with 10 terms

First level (innermost)
Original dataset encrypted with all 15 terms of passphrase

Single encrypted file

3. Encrypted with 5-term passphrase

2. Encrypted with 10-term passphrase

Encryption Process

Third Level (outer)

Heavily Masked or Binned dataset
Encrypted zipped file of second level

1. Decrypt with 5-terms of the full passphrase

ZIP

1. Encrypted with 15-term passphrase

Second Level (middle)

Masked or Binned dataset
Masking paramters of 3rd level
Encrypted zipped file of first level

ZIP

2. Decrypt using 10-terms of the full passphrase

Decryption Process

First Level (Innermost)

Original Shapefile
Masking Paramters of 2nd Level

ZIP

3. Decrypt using 15-terms of the full passphrase.

Load

User's original dataset ⟶

Obfuscation

Masking or Binning generates
- obfuscated (masked or binned) dataset
- heavily obfuscated
  (heavily masked or heavily binned) dataset

Encryption

User can choose to encrypt either the
- original only (LEVEL 1)
- original & obfuscated dataset (LEVEL 2)
- ALL 3 LEVELS (orig. & obfuscated & heavily obfuscated)

Decryption

User can choose to decrypt to either the
- LEVEL 1 - original dataset
- LEVEL 2 - obfuscated dataset
- LEVEL 3 - heavily obfuscated dataset