

This how GPG works



As of versions 2.0.26 and 1.4.18, GnuPG supports the following algorithms:

- Pubkey: RSA, ElGamal, DSA
- Cipher: IDEA (since versions 1.4.13 and 2.0.20), 3DES, CAST5, Blowfish, AES-128, AES-192, AES-256, Twofish, Camellia-128, -192 and -256 (since versions 1.4.10 and 2.0.12)
- Hash: MD5, SHA-1, RIPEMD-160, SHA-256, SHA-384, SHA-512, SHA-224
- Compression: Uncompressed, ZIP, ZLIB, BZIP2

More recent releases of GnuPG 2.x ("stable" and "modern" series) expose most cryptographic functions and algorithms [Libgcrypt](#) (its cryptographic library) provides, including support for [elliptic curve cryptography](#) (ECDSA, ECDH and EdDSA)^[10] in the "modern" series (i.e. since GnuPG 2.1).

Asymmetric encryption for key exchange

Should we use asymmetric encryption for key exchange?

- ✓ Simple solution for non-interactive protocol (e.g GPG)
- ⦿ But not a good solution for interactive protocols