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Key distribution

- Public keys published on servers (central or your own)
- Can verify with 128-bit cryptographic hash (fingerprint)
- Keys have name and email address fields
 - Disambiguate people
 - Still need to check fingerprint

Efficient encoding

- PGP supports various compression methods (originally ZIP only)
- RFC 3156 specifies a multipart MIME for PGP-encrypted data, using Base64 encoding
 - Eliminates many old problems with breaking of text lines, etc.
 - A 1-bit change will invalidate the signature

Certificate and key revocation

- A certificate can be revoked by the signer
 Does not mean that key is necessarily invalid
- Only the owner can revoke a key
- Certificates and keys have optional expiration dates
- Distribution is informal
 - E.g., <u>http://pgp.mit.edu/</u>
 - Some newer products have PKI-like features

Signature types

- When signing, PGP includes a field indicating whether a message or certificate is being signed
 - Guard against chance that a message would mistakenly be interpreted as a certificate







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