



OpenPGP IETF-94

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Agenda

- Agenda Bashing
- 4880bis plans
- SEIPD→SED attack
- Algorithm deprecations
- Fingerprint
- CFB replacement (Bryan Ford)
- Metadata
- S2K
- Registry policies

4880bis plans

- Werner Koch is drafting a proposed 4880bis
- Will post pointers for workflow and patches
- Please review and comment

SEIPD \rightarrow SED attack

- Jonas Magazinius pointed out you can convert symmetrically-encrypted integrity-protected data (SEIPD) packets to plain symmetrically-encrypted packets (SED) without decryption
- How do we deprecate SED effectively?

Algorithm Deprecation

How do we draft algorithm deprecation for stored data format? (MUST NOT what?)

- Digests:
 - MD5, SHA1?
- Symmetric:
 - IDEA, 3DES?, CAST5?, Blowfish?, Twofish?
- Asymmetric:
 - DSA? Size limits on RSA? NIST ECC? ElGamal?

Fingerprint

- One digest format or multiple?
- Choice of digest
- Truncation allowed?
- What is digested?
 - Creation time
 - Expiration time
- Distinguish v5 from v4?
- UI/UX guidance for implementors

Symmetric encryption

- Bryan Ford wrote:

<https://datatracker.ietf.org/doc/draft-ford-openpgp-format/>

- Modern modes
- Streaming/chunking
 - Asymmetric signature binding



Metadata protection

- Also in Bryan Ford's draft

<https://datatracker.ietf.org/doc/draft-ford-openpgp-format/>

How indistinguishable from noise do we want encrypted OpenPGP material to be?

S2K

- Secure Password Hashing competition has a winner:
- <https://password-hashing.net/index.html>
 - Argon2
 - Argon2i
 - Argon2d
- Parameterize for S2K
- Integration patch by Nils Durner
 - Sent to openpgp@ietf.org October 15
- Need IETF draft for Argon2i for normative reference?

Registry policies

- Crypto registries
 - Digest
 - Symmetric crypto
 - Asymmetric crypto
- S2K (key derivation)
- Compression
- Notations
- Packet Types

AOB

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