OpenPGP at IETF 117

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Note Well
[https://www.ietf.org/about/note-well/]

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
IETF Hybrid Meeting Tips

In-person participants

• Make sure to sign into the session using the Meetecho
  – (usually the “Meetecho lite” client) from the Datatracker agenda
• Use Meetecho to join the mic queue
• Keep audio and video off if not using the onsite version

Remote participants

• Make sure your audio and video are off unless you are chairing or presenting during a session
• Use of a headset is strongly recommended
IETF Code of Conduct (RFC 7154)

- “IETF participants extend respect and courtesy to their colleagues at all times.”
- Native English speakers “communicat[e] clearly, including speaking slowly and limiting the use of slang”
- “reasoned argument rather than through intimidation or personal attack”
- “best solution for the whole Internet, not just the best solution for any particular network, technology, vendor, or user.”
- “Individuals are prepared to contribute to the ongoing work of the group”
Agenda

• Crypto-refresh status
  – Summary since IETF 116 (pubreq!)
  – Open Editorial Merge Requests

• Rechartering?
Crypto-refresh since IETF 116

• Draft -09:
  - Add fingerprint length octet in v6 PKESK for better parseability of unknown fingerprint versions
  - X25519 and X448: mix public key material into KDF as per RFC 7748
  - V3 PKESK for X25519 and X448: don’t protect symmetric key algorithm choice, mandate AES
  - Remove “SaltedHash” armor header (no more one-pass verification of v6 CSF)
  - Test vectors: add locked secret key
  - Security considerations about session key reuse
  - New subsections: “Terminology Changes” and “Upgrade Guidance”
  - IANA considerations cleanup

• Draft -10:
  - Change IPR policy to pre5378Trust200902 since we can’t contact all authors of RFC 4880
  - Fix erratum
Crypto-refresh status

- Publication Requested!
- Shepherd writeup submitted
- AD review is in progress
Outstanding editorial tuning

• Packet Tag vs. Type: (!324)

• Minor:
  – Clarify MTI markers in Upgrade Guidance (!321)
  – Clarify CFB description (!323)
  – Simplify description of reserved codepoints (!325)
Should we recharter?

- Assuming we succeed in releasing the crypto-refresh...
  - Several presentations pending about possible rechartering topics
  - We could also close the WG
  - If we do recharter, we need text
Possible Rechartering Topics

- Post-Quantum (Strenzke)
- Stateless OpenPGP API (SOP) (Gillmor)
- Automatic Forwarding (Wussler)
- Persistent Symmetric Keys (Huigens)
- Replacement for Designated Revoker, Attestation Signatures, User ID conventions, PGP/MIME guidance for v6 sigs (Gillmor)
- Fingerprint Human Interface (in-person verification, business cards, QR codes?)
- Superseded keys
- Domain separation for signing or encryption
- Web of Trust (regexes, trust signatures, validation constraints)
- Certification-capable subkeys
- Intended Recipients challenges
- Networked certificate discovery (HKP, WKD)
- Forward Secrecy
- PGP/MIME message construction
- Integration with KEYTRANS
- OpenPGP with non-OpenPGP Hardware tokens
Rechartering process

- Please propose text for a new charter
- See charter.md in https://gitlab.com/openpgp-wg/openpgp-wg-admin
- Propose revised text by end of August
- Virtual interim in mid-September