OpenPGP @ IETF 115

London
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Co-chairs: Stephen Farrell (in person)
Daniel Kahn Gillmor (remote)
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
- Wear masks unless actively speaking at the microphone

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

WGLC Followup

• Avoiding conflicts with draft-koch
• Salt Length
• Aliased Signature Versions
• Contexts for Encryption and Sigs
• EC point wire formats
• IANA updates
• AOB

Future Work (if time)

• PQ next steps (Aron Wussler)
• Collecting possible re-charter items?
draft-ietf-openpgp-crypto-refresh

WGLC

- Draft -07 is the basis for WG work going forward
  - Avoid conflicts with draft-koch where feasible

- Please review!

- We will not get to future work without getting the currently chartered work out the door
Avoiding Conflicts with `draft-koch`

**Outstanding Conflicts**

- Key version 5
- Signature version 5
  - If we change these, should we also sync versions of OPS and PKESK? SEIPD?

**Already Deconflicted?**

- Subpacket codepoints:
  - 39/Pref AEAD Ciphersuites $\neq d-k$: 34/Pref AEAD
- AEAD:
  - SEIPDv2 $\neq d-k$: packet tag 20
- Feature Flags:
  - 0x08/SEIPDv2 $\neq d-k$: 0x02/packet tag 20
- One Pass Signature (OPS):
  - Added v5, $d-k$ has only v3 unchanged
- PKESK:
  - Added v5 to match SEIPDv2, $d-k$ has only v3 unchanged
Length of Salt

Aron Wussler recommends (see #150):

- V5 signatures use a 16-octet salt. Make larger in preparation for PQ signing schemes?
  - Static or vary on hash algo or pubkey algo?
Aliased Signature versions

Demi-Marie Obenour observes (#130):

• A v5 signature over a small message (<4GiB) can be rewritten into a v3 signature over subtly different data
  - Rewriting to v4 is sometimes also possible but much less likely

• Fix proposed: change trailer for hashed data in v5 sig
  - Or, rely on our ban of v3 verifications?
Context Parameter

Marcus Brinkmann recommends (see #145):

- Add Context Parameter for Encryption
  - Defense against several forms of EFail
- Daniel Huigens: Signatures too?
- Requires shared definition of context
EC Wire Format Simplification

Andrey Jivsov recommends (see #149):

- For v5 ECDH and ECDSA pubkeys, switch from SEC1 to compact x-only representation
IANA Updates

• All: SPECIFICATION REQUIRED (see #140)
  – Except: Version numbers, Packet types (both RFC REQUIRED)

• Designated Experts
  – Who?
  – What guidance? (model after TLS or COSE or ?, see #146)

• Registry review (e.g., #147)
Any other business?

• Send reviews to the list! <openpgp@ietf.org>

• Report issues at
  https://gitlab.com/openpgp-wg/rfc4880bis

• Read other reviews and issues and follow up