

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)
- <https://www.ietf.org/privacy-policy/> (Privacy Policy)

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

WGGLC 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 ≠ **d-k**: 34/Pref AEAD
- AEAD:
 - SEIPDv2 ≠ **d-k**: packet tag 20
- Feature Flags:
 - 0x08/SEIPDv2 ≠ **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