

Monday March 17, 2025

PQUIP WG

Post-Quantum Use In Protocols

IETF 122, Bangkok (กรุงเทพมหานคร) (Krung Thep Maha Nakhon)

This session is being recorded

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

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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)

Note Really Well

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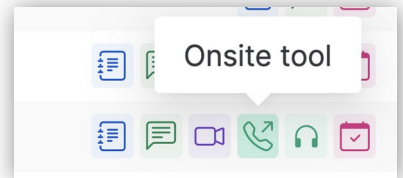


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In-person participants

- Make sure to sign into the session via Datatracker or the QR Code in this session.
- Use Meetecho (usually the “Meetecho lite”) client to:
 - join the mic queue
 - participate in shows of hands
- *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.

Agenda overview

- Current document status
- Things happening this week
- Two potential new documents (state backup for hash-based signatures; HSMs and PQC)
- Presentations on PQC topics in the IETF (integration, private keys, IETF quantum fragility)

Full agenda <https://datatracker.ietf.org/doc/agenda-122-pquip/>

Current document status

- Terminology for Post-Quantum Traditional Hybrid Schemes
 - <https://datatracker.ietf.org/doc/draft-ietf-pquip-pqt-hybrid-terminology/>
 - Finished with the IESG review, and is in the RFC Editor's queue
- Hybrid signature spectrums
 - <https://datatracker.ietf.org/doc/draft-ietf-pquip-hybrid-signature-spectrums/>
 - In IETF Last Call (ends 2025-04-07)
- Post-Quantum Cryptography for Engineers
 - <https://datatracker.ietf.org/doc/draft-ietf-pquip-pqc-engineers/>
 - AD has reviewed it, and sent questions to the authors and WG

PQC in certificates at the Hackathon

- Presentation:

<https://datatracker.ietf.org/doc/slides-122-pquip-pq-hackathon-update/>

PQC Dialogue with Government Stakeholders

- Side-meeting earlier today
- <https://trello.com/c/nH9exeWo>

Hash-based Signatures, State and Backup Management

- Thom Wiggers
- <https://datatracker.ietf.org/doc/draft-wiggers-hbs-state/>

Adapting HSMs for Post-Quantum Cryptography

- Tiru Reddy
- <https://datatracker.ietf.org/doc/draft-reddy-pquip-pqc-hsm/>

An approach for more efficient PQ integration

- Britta Hale

The Great LAMPS Private Key War of '25

- Mike Ounsworth

IETF is Quantum-Fragile

- Deirdre Connolly