

7 November 2024

PQUIP WG

Post-Quantum Use In Protocols

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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- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (<https://www.ietf.org/contact/ombudsteam/>) if you have questions or concerns about this.

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

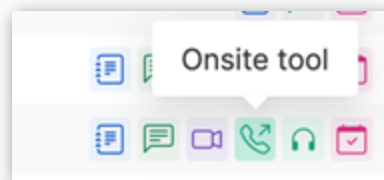
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IETF WG Meeting Tips

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
- Previously discussed documents
- PQC in Certificates at the Hackathon
- FIPS issues with deploying ML-KEM and ML-DSA, Mike Ounsworth
- PQC algorithm commonality across the IETF

Full agenda <https://datatracker.ietf.org/doc/agenda-121-pquip/>

Current document status

- Terminology for Post-Quantum Traditional Hybrid Schemes
 - <https://datatracker.ietf.org/doc/draft-ietf-pquip-pqt-hybrid-terminology/>
 - Submitted to the IESG for publication 2024-09-18
 - Stuck?
- Hybrid signature spectrums
 - <https://datatracker.ietf.org/doc/draft-ietf-pquip-hybrid-signature-spectrums/>
 - In WG Last Call until today; will stretch it by a few days because:
 - Very few comments so far, and more would be appreciated
 - Authors will update based on Last Call comments
- Post-Quantum Cryptography for Engineers
 - <https://datatracker.ietf.org/doc/draft-ietf-pquip-pqc-engineers/>
 - Finished WG Last Call, editorial pass made
 - Would love some review of NIST status text
 - Expecting a new version within days

Previously discussed

- More discussion on the list for these
- Post-quantum cryptography migration use cases
 - <https://datatracker.ietf.org/doc/draft-vaira-pquip-pqc-use-cases/>
- Hash-based Signatures: State and Backup Management
 - <https://datatracker.ietf.org/doc/draft-wiggers-hbs-state/>

PQC in certificates at the Hackathon

- Presentation: <https://datatracker.ietf.org/doc/slides-121-pquip-pq-hackathon-update/>

FIPS issues with deploying ML-KEM and ML-DSA

- Presentation: <https://datatracker.ietf.org/doc/slides-121-pquip-fips-issues-with-deploying-ml-kem-and-ml-dsa/>

PQC algorithm commonality across the IETF

- Not picking or ranking strength of PQC algorithms: that is for CFRG
- Role of PQUIP WG and role of SAAG
- Words from our AD
- WG discussion

All other business

- Please stay active on the mailing list
- And thank you!