06 November 2023

IETF 118 Transport Layer Security

This session is being recorded

Internet Engineering Task Force

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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)

Note Really Well

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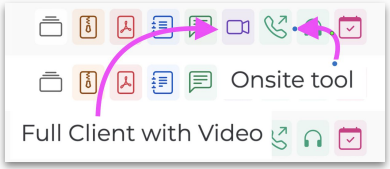
IETF 118 Meeting Tips

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

Resources for IETF 118 Prague

- Agenda
  https://datatracker.ietf.org/meeting/agenda
- Meetecho and other information:
  https://www.ietf.org/how/meetings/preparation
- If you need technical assistance, see the Reporting Issues page:
  http://www.ietf.org/how/meetings/issues/

Agenda

Administrativia (5min)

- Blue sheets / scribe selection / NOTE WELL
- Agenda revision
- WG Status

Working Group Drafts (20min)

- TLS Encrypted Client Hello (ECH) - Chris Wood - 15 min
- Compact TLS 1.3 - Hannes/Joe - 2 min
- IANA Registry Updates for TLS and DTLS - Joe Salowey - 2 min

Adoption

- SSLKeyLog

Agenda Continued

Individual Drafts (Remaining Time)

- AuthKEM - Thom Wiggers - 15 min
  - KEM-based Authentication for TLS 1.3
  - KEM-based pre-shared-key handshakes for TLS 1.3
- TLS 1.2 is frozen - Rich Salz - 10 min
- Legacy RSASSA-PKCS1-v1_5 codepoints for TLS 1.3 - Andre Popov - 15 min
- TLS Trust Expressions - David Benjamin - 30 min
- TLS Key Share Prediction - David Benjamin - 15 min
- TLS Flag - Request mTLS - Jonathan Hoyland - 5 min
- TurboTls - Deirdre Connolly - Time Permitting

cTLS Update

- New draft version available: draft-ietf-tls-ctls-09
- Formal analysis now available (thanks to Karthik & friends):

  "Comparse: Provably Secure Formats for Cryptographic Protocols"
- The further reduce the size of public keys draft-mattsson-tls-compact-ecc has been written. Thanks to John Mattsson.
  - Will ask for adoption in the mailing list.
- Next steps:
  - Gather more implementation feedback
  - Formal analysis of optimization to remove the randoms with the key share public keys ongoing.