

IETF Hackathon

IETF 115
5-6 November 2022
London, UK



Hackathon Plan

- TLS extensions to support attestation evidence (and results) as first-class authentication credentials
- Relevant I-Ds
 - [draft-fossati-tls-attestation](#)
 - [draft-bft-rats-kat](#)
 - [draft-ftbs-rats-msg-wrap](#)

What got done

- Extend TLS handshake in mbedTLS
- Extend Attestation Verifier to handle TPM-based Key Attestation
 - Verification and endorsement path
- Extend Attester to produce endorsements and evidence in the correct formats accepted by the Verifier
- Code
 - <https://github.com/veraison/services/tree/ietf-115-hackathon>
 - <https://github.com/ionut-arm/parsec-se-driver/tree/attested-tls>
 - <https://github.com/hannestschofenig/mbedtls/tree/tls-attestation>

What we learned

- Integration highlighted
 - The need to modify slightly the evidence format to include an in-band reference to the verification key
 - The need to modify the attestation result format to embed the verified identity key

Wrap Up

Team members:

Ionut Mihalcea

Hannes Tschofenig

Thomas Fossati

First timers @ IETF/Hackathon: Ionut

[Confidential Computing Consortium:](#)

- [Attestation SIG POC](#)