



IETF Hackathon

TLS & Attestation

IETF 116
25-26 March 2023
Yokohama, Japan



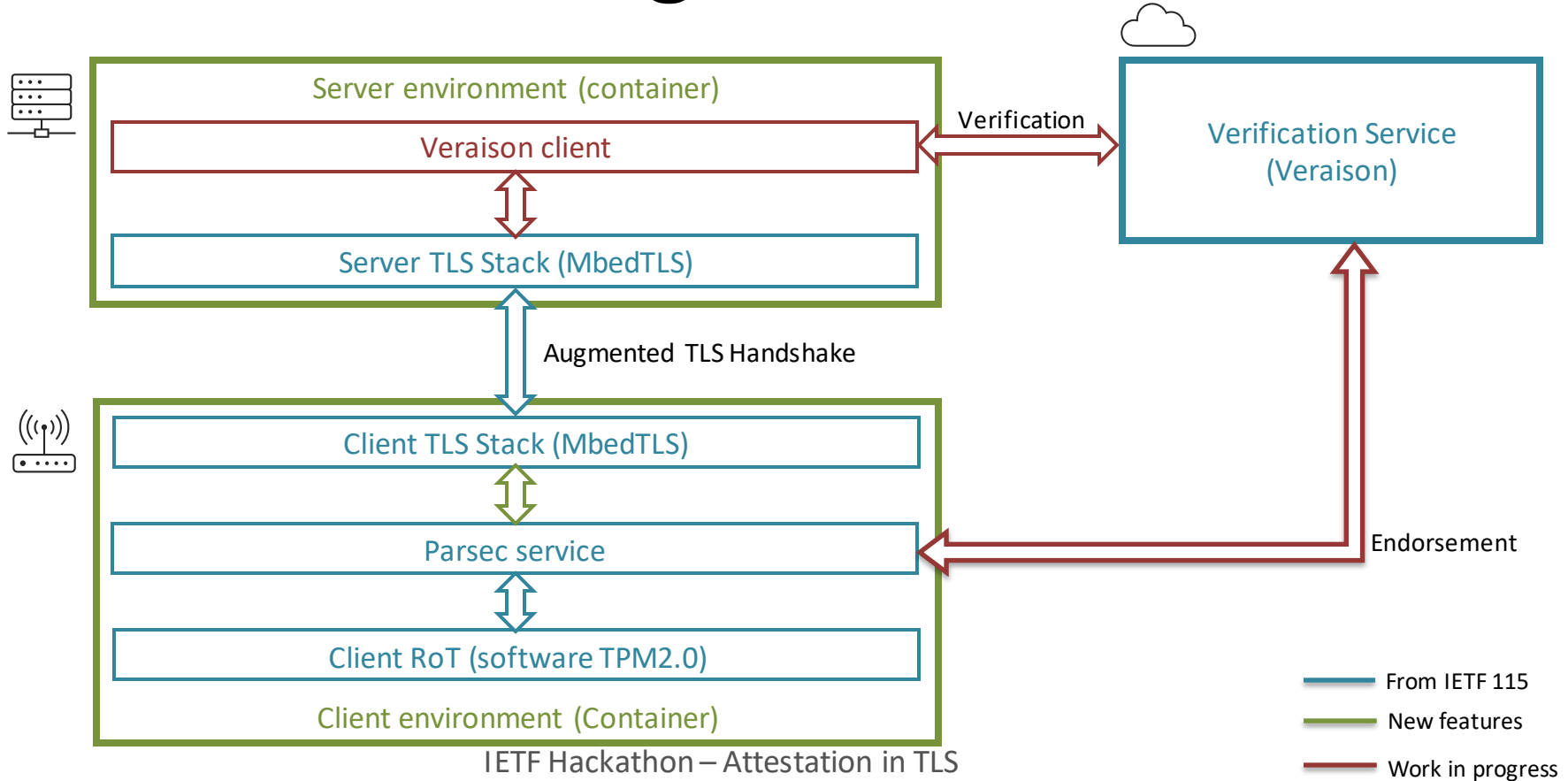
Hackathon Plan

- End-to-end prototype using remote attestation as an authentication mechanism in TLS
 - [draft-fossati-tls-attestation](#)
 - Continuing the work from IETF 115
- Goal: Hooking the TLS implementation to Root of Trust, and to Verification Service

What got done

- Filled some of the gaps in the prototype
 - Defined some of the required formats
 - Developed some of the glue layers (e.g., client libraries)
 - Started assembling container images that encapsulate the participants of the protocol

What got done



What we learned

- Many components, APIs, and formats to synchronise
- Some drafts are only now being fleshed out

Wrap Up

Team members:

- Thomas Fossati
- Paul Howard
- Yogesh Deshpande
- Ionut Mihalcea

First timers @ IETF/Hackathon:

- <https://datatracker.ietf.org/doc/draft-fossati-tls-attestation/>
- <https://github.com/CCC-Attestation/attested-tls-poc>
- <https://datatracker.ietf.org/doc/html/draft-ftbs-rats-msg-wrap>
- <https://datatracker.ietf.org/doc/html/draft-bft-rats-kat>
- <https://datatracker.ietf.org/doc/draft-fv-rats-ear/>