

IETF Hackathon: One Tax API

IETF 115

5-6 November 2022

London

Hackathon Plan

- What problem were you working on?
 - [RFC 8032](#)
- Specific problems to solve
 - Determine good set of test vectors
- How you planned to solve it?
 - Try test vectors from [Chalkias, Garillot and Nikolaenko](#) on a variety of libraries

What got done

- Ideas, add tests for
 - [LibGcrypt](#)
 - [LibreSSL](#)
 - [libtomcrypt](#)
 - [Mbed-TLS](#)
 - [Nettle](#)
 - [Network Security Services](#)
 - [noble-ed25519](#)
- New code
 - Implement tests for [Botan](#), [Monocypher](#) [TweetNaCl](#), and [WolfSSL](#),
 - Pull request to [project repository](#).

What we learned

Lessons learned from this hackathon

- NaCl and NaCl.js pass and fail the same tests from [Chalkias, Garillot and Nikolaenko](#)
- Monocypher passes and fails the same tests as OpenSSL 3
- wolfSSL passes the same tests as OpenSSL 3, but indicates a failure in the verification process for other tests, not a failed verification
- Botan passes ed25519-donna and Supercop on which it is derived from

Wrap up

Team members:

- Benson Muite

Other links:

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First timers @ IETF/Hackathon:

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Notes and contacts:

- benson_muite at emailplus dot org