

IETF Hackathon: Network Time Security (NTS)

IETF 101
17-18 March, 2018
London



Hackathon Plan

- **Goal:**

- Find remaining issues with the NTS draft
(draft-ietf-ntp-using-nts-for-ntp-11)

- **How can we achieve it?**

- Verify interoperability with two independent *proof of concept* (PoC) implementations of NTS

What got done

- Test scenario:
 - NTS client (PoC 2) against NTS server (PoC 1)
- Test results
 - (NTS key exchange) was successful
 - some small implementation bugs which were fixed
 - (NTS) time exchange revealed a misinterpretation of the NTS draft within PoC 1
 - (NTS) time exchanged verified successfully after update of PoC 1

What we learned

- Inter-op test is pretty important to find hidden issues within specifications
- We know the current draft works well
- **What we have to do now?**
 - Discussions and fine-tuning on some protocol points
 - Complete the tests

Wrap Up

Team members:

Karen O'Donoghue

First timers @ IETF/Hackathon:

Daniel Fox Franke

Richard Welty

Dieter Sibold

Martin Langer

NTP working group:

<https://datatracker.ietf.org/wg/ntp>

Involved documents:

[draft-ietf-ntp-using-nts-for-ntp-11](#)

[RFC 7822 \(NTP EF\)](#)

Git repositories:

<https://github.com/dfoxfranke/nts-hackathon>

<https://gitlab.com/MLanger/nts>

<https://gitlab.com/MLanger/ntp>