

# IETF Hackathon

IETF 121  
2–3 November 2024  
Dublin, Ireland



# Hackathon Plan

Making NTPv5 ready for deploying  
draft implementations

draft-ietf-ntp-ntp5-02

Interoperability testing of  
RoughTime

draft-ietf-ntp-roughTime-11

~4 server implementations

~6 client implementations

# What got done

## NTPv5

Tested across long distances and multiple networks

Cleaned up existing implementations

# What got done

- Roughtime

Interoperability framework (Plummet)

Interoperability matrix

		Clients						
		CloudFlare	craggy	node-roughtime	pyroughtime	roughenough	vroughtime	roughtimed
Servers	CloudFlare	F	F	F	F	F	F	
	roughenough	F	U	O	U	F	F	
	roughtimed	U	U	U	F	O	U	
	craggy							
	node-roughtime							
	pyroughtime							
	vroughtime							

Legend

F	Time successfully received
V	Version Mismatch
O	Other Error
U	Unknown Error
?	Untested

# What we learned

Found & fixed implementation bugs

Security issue in Roughtime draft

Regression in Roughtime draft

Issues with draft language/readability

Work on new Roughtime server implementation

# Wrap Up

Team members:

Marcus Dansarie

First timers @ IETF/Hackathon:

Sarah Grant

Ruben Nijveld

<https://github.com/ietf-wg-ntp/Roughtime-interop-code>