Measurement and Analysis for Protocols

Research Group (maprg)
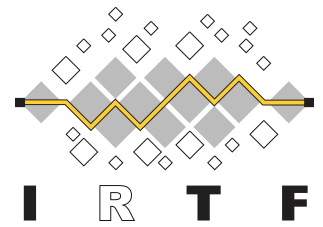
July 25, 2025, IETF123 in Madrid

co-chairs <maprg-chairs@ietf.org>:

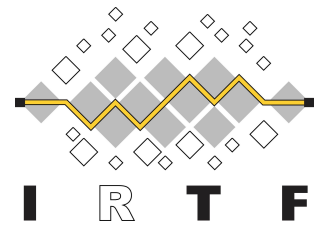Mirja Kühlewind <mirja.kuehlewind@ericsson.com>

Dave Plonka <plonka@wiscnet.net>

Note Well – Privacy & Code of Conduct

- As a participant in, or attendee to, any IRTF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public

- Personal information that you provide to IRTF will be handled in accordance with the Privacy Policy at https://www.ietf.org/privacy-policy/

- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (https://www.ietf.org/contact/ombudsteam/) if you have questions or concerns about this

- See RFC 7154 (Code of Conduct) and RFC 7776 (Anti-Harassment Procedures), which also apply to IRTF

- Also see RFC 9775 (IRTF Code of Conduct)

Goals of the IRTF

- The Internet Research Task Force (IRTF) focuses on longer term research issues related to the Internet while the parallel organisation, the IETF, focuses on shorter term issues of engineering and standards making

- **The IRTF conducts research; it is not a standards development organisation**

- While the IRTF can publish informational or experimental documents in the RFC series, its primary goal is to promote development of research collaboration and teamwork in exploring research issues related to Internet protocols, applications, architecture, and technology
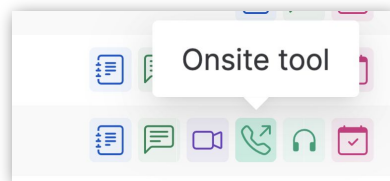- See "An IRTF Primer for IETF Participants" – RFC 7418

Administrativa

- Charter: https://datatracker.ietf.org/group/maprg/charter/
- Mailing List: maprg@irtf.org
  Subscriptions: https://www.irtf.org/mailman/listinfo/maprg
- Today's slides:
  https://datatracker.ietf.org/meeting/123/session/maprg/
- Meetecho: https://meetecho.ietf.org/client/?group=maprg
  - Please join Meetecho (lite or full version) from the room to sign in for the bluesheets (and enter the queue)!

Meeting Tips

In-person participants
- Make sure to sign into the session via Datatracker or the QR Code in this session.
- Use Meetecho (usually the "Meetecho lite") client to:
  - join the mic queue
  - participate in shows of hands
- *Keep audio and video off if not using the onsite version.*

Remote participants
- Make sure your audio and video are off unless you are chairing or presenting during a session.
- Use of a headset is strongly recommended.

This session is being recorded

Agenda

9:30 Overview and Status - *Mirja/Dave*
  "Hackathon: MAPRG Happy Eyeballs and IPv6 Test Pod Open Testing" (see HAPPY WG, IETF 123)

9:35 Breaking Through the Clouds: Performance Insights into Starlink's Latency and Packet Loss
 - Robert Richter

9:45 It's a bird? It's a plane? It's CDN! Investigating Content Delivery Networks in the LEO Satellite Networks Era - Nitinder Mohan

10:00 Measuring Anycast Performance: Catchment, RTT, and Optimal Site - Remi Hendriks

10:10 ReACKed QUICer: Measuring the Performance of Instant Acknowledgments in QUIC Handshakes
 - Jonas Mücke

10:25 Examining the Heterogeneous Throughput Performance Landscape of QUIC Implementations
 - Roland Bless

10:40 QUIC Steps: Evaluating Pacing Strategies in QUIC Implementations - Marcel Kempf