

Measurement and Analysis for Protocols

Research Group (maprg)

Nov 8, 2023

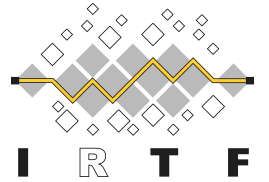
IETF118 in Prague

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

Mirja Kühlewind <mirja.kuehlewind@ericsson.com>

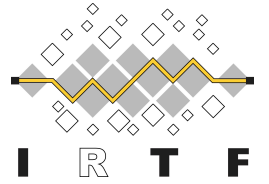
Dave Plonka <dave@plonka.us>

Note Well – Intellectual Property



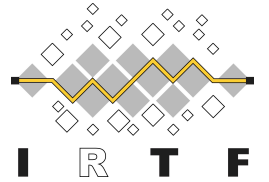
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 - The IRTF expects that you file such IPR disclosures in a timely manner – in a period measured in days or weeks, not months
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 - Definitive information is in [RFC 5378](#) (Copyright) and [RFC 8179](#) (Patents, Participation), substituting IRTF for IETF, and at <https://irtf.org/policies/ipr>

Note Well – Audio and Video Recordings



- The IRTF routinely makes recordings of online and in-person meetings, including audio, video and photographs, and publishes those recordings online
- If you participate in person and choose not to wear a red “do-not-photograph” lanyard, then you consent to appear in such recordings, and if you speak at a microphone, appear on a panel, or carry out an official duty as a member of IRTF leadership then you consent to appearing in recordings of you at that time
- If you participate online, and turn on your camera and/or microphone, then you consent to appear in such recordings

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

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](#)

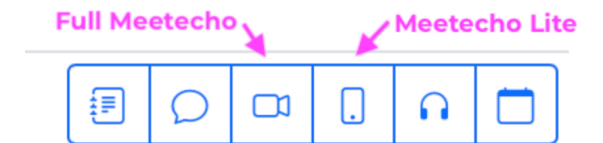
Administrativa

- 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/118/session/maprg/>
- Meetecho: <https://meetings.conf.meetecho.com/ietf118/?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 using the Meetecho (usually the “Meetecho lite” client) from the Datatracker agenda
- Use Meetecho to join the mic queue
- *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.

Recently published papers at IMC'23 (Oct 24-26)

Congestion Control/QUIC

- [Containing the Cambrian Explosion in QUIC Congestion Control](#)
Ayush Mishra (National University of Singapore), Ben Leong (National University of Singapore)

Mail

- [Lazy Gatekeepers: A Large-Scale Study on SPF Configuration in the Wild](#)
Stefan Czybik (Technische Universität Berlin), Micha Horlboge (Technische Universität Berlin), Konrad Rieck (Technische Universität Berlin)

Security

- [Cloud Watching: Understanding Attacks Against Cloud-Hosted Services](#)
Liz Izhikevich (Stanford University), Manda Tran (Stanford University), Michalis Kallitsis (Merit Network, Inc.), Aurore Fass (Stanford University, CISPA Helmholtz Center for Information Security), Zakir Durumeric (Stanford University)
- [Behind the Scenes: Uncovering TLS and Server Certificate Practice of IoT Device Vendors in the Wild](#) Hongying Dong (University of Virginia), Hao Shu (New York University), Vijay Prakash (New York University), Yizhe Zhang (University of Virginia), Muhammad Talha Paracha (Northeastern University), David Choffnes (Northeastern University), Santiago Torres-Arias (Purdue University), Danny Yuxing Huang (New York University), Yixin Sun (University of Virginia)

Recently published papers at IMC'23 (Oct 24-26)

DNS

- [Extended DNS Errors: Unlocking the Full Potential of DNS Troubleshooting](#)

Yevheniya Nosyk (Université Grenoble Alpes), Maciej Korczyński (Université Grenoble Alpes), Andrzej Duda (Université Grenoble Alpes)

- [Wolf in Sheep's Clothing: Evaluating Security Risks of the Undelegated Record on DNS Hosting Services](#)

Fenglu Zhang (Tsinghua University), Yunyi Zhang (National University of Defense Technology), Baojun Liu (Tsinghua University), Eihal Alowaisheq (King Saud University), Lingyun Ying (QI-ANXIN Technology Research Institute), Xiang Li (Tsinghua University), Zaifeng Zhang (360 Security Technology Inc.), Ying Liu (Tsinghua University), Haixin Duan (Tsinghua University; Quancheng Laboratory), Min Zhang (National University of Defense Technology)

BGP

- [Coarse-grained Inference of BGP Community Intent](#)

Thomas Krenc (UC San Diego / CAIDA), Matthew Luckie (UC San Diego / CAIDA), Alexander Marder (UC San Diego / CAIDA), kc Claffy (UC San Diego / CAIDA)

- [IRRegularities in the Internet Routing Registry](#)

Ben Du (UC San Diego), Katherine Izhikevich (UC San Diego), Sumanth Rao (UC San Diego), Gautam Akiwate (Stanford University), Cecilia Testart (Georgia Tech/MIT), Alex C. Snoeren (UC San Diego), kc Claffy (UC San Diego / CAIDA)

Agenda

- 9:30** Overview and Status - *Mirja/Dave*
- 9:35** QUIC(k) Enough in the Long Run? Sustained Throughput Performance of QUIC Implementations - *Roland Bless*
- 9:45** Dissecting Performance of Production QUIC - *Theo Benson*
- 9:55** Using the Spin Bit and ECN with QUIC: Adoption and Challenges in the Wild - *Ike Kunze, Constantin Sander*
- 10:10** Characterizing open DNS resolver misbehavior for DNSSEC queries - *Sudheesh Singanamalla (remote)*
- 10:25** Transparent Forwarders: An Unnoticed Component of the Open DNS Infrastructure - *Maynard Koch*
- 10:35** RoVista: Measuring and Analyzing the Route Origin Validation (ROV) in RPKI - *Weitong Li (remote)*
- 10:50** Adaptive Address Family Selection for Latency-Sensitive Applications on Dual-stack Hosts - *Maxime Piraux*
- 11:00** IPv6 Hitlist - *Johannes Zirngibl*
- 11:10** I Tag, You Tag, Everybody Tags! - *Yasir Zaki (remote)*