

Measurement and Analysis for Protocols

Research Group (maprg)

July 24, 2024

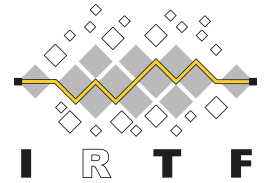
IETF120 in Vancouver

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

Mirja Kühlewind <mirja.kuehlewind@ericsson.com>

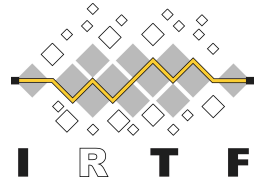
Dave Plonka <dave@plonka.us>

Note Well – Intellectual Property



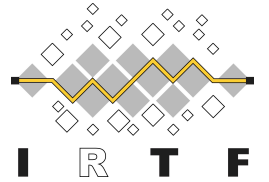
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Note Well – Audio and Video Recordings



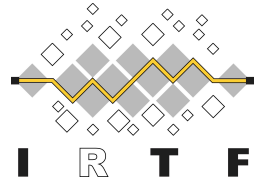
- The IRTF routinely makes recordings of online and in-person meetings, including audio, video and photographs, and publishes those recordings online
- If you participate in person and choose not to wear a red “do-not-photograph” lanyard, then you consent to appear in such recordings, and if you speak 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
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Note Well – Privacy & Code of Conduct



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- 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/120/session/maprg/>
- Meetecho: <https://meetings.conf.meetecho.com/ietf120/?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 TMA'24 (June 23/24)

DNS/domain registration/certificates

- **Evaluating the Impact of Design Decisions on Passive DNS-Based Domain Rankings** (PDF, Community Contribution Award)
Victor Le Pochat (DistriNet, KU Leuven), Simon Fernandez (Univ. Grenoble Alpes, CNRS, Grenoble INP, LIG), Tom Van Goethem (DistriNet, KU Leuven), Samaneh Tajalizadehkhoob (ICANN), Lieven Desmet (DistriNet, KU Leuven), Andrzej Duda (Univ. Grenoble Alpes, CNRS, Grenoble INP, LIG), Wouter Joosen (DistriNet, KU Leuven), Maciej Korczyński (Univ. Grenoble Alpes, CNRS, Grenoble INP, LIG) [Community Contribution Award]
- **Shielding Brands: An In-depth Analysis of Defensive Domain Registration Practices Against Cyber-Squatting** (PDF)
Ben Chukwuemeka BENJAMIN (Univ. Grenoble Alpes, CNRS, Grenoble INP, LIG, France), Jan Bayer (KOR Labs Cybersecurity), Simon Fernandez (Univ. Grenoble Alpes, CNRS, Grenoble INP, LIG, France), Andrzej Duda (Univ. Grenoble Alpes, CNRS, Grenoble INP, LIG, France), Maciej Korczynski (Univ. Grenoble Alpes, CNRS, Grenoble INP, LIG, France)
- **Do CAA, CT, and DANE Interlink in Certificate Deployments? A Web PKI Measurement Study** (PDF)
Pouyan Fotouhi Tehrani (TU Dresden), Raphael Hiesgen (HAW Hamburg), Teresa Lübeck (HAW Hamburg), Thomas Schmidt (HAW Hamburg), Matthias Wählich (TU Dresden)

BGP/Peering

- **Serial BGP Hijackers: A Reproducibility Study and Assessment of Current Dynamics** (PDF)
Ebrima Jaw (University of Twente), Moritz Muller (University of Twente, SIDN Labs), Cristian Hesselman (University of Twente, SIDN Labs), Lambert Nieuwenhuis (University of Twente)
- **How Russia's Invasion of Ukraine Impacted Internet Peering of the Conflicted Countries** (PDF)
Antonios Chatzivasileiou (FORTH-ICS & University of Crete), Alexandros Kornilakis (FORTH-ICS), Katerina Lionta (University of Crete), George Nomikos (FORTH-ICS), Xenofontas Dimitropoulos (University of Crete & Cisco ThousandEyes), Georgios Smaragdakis (Delft University of Technology)

L4S

- **Improving Cloud Gaming Traffic QoS: A Comparison Between a Class-Based Queuing Policy and L4S** (PDF)
Philippe Graff (University of Lorraine, CNRS, Inria, LORIA), Xavier Marchal (University of Lorraine, CNRS, Inria, LORIA), Thibault Cholez (University of Lorraine, CNRS, Inria, LORIA), Bertrand Mathieu (Orange Innovation), Stéphane Tuffin (Orange Innovation), Olivier Festor (University of Lorraine, CNRS, Inria, LORIA)

Agenda

- 9:30** Overview and Status - *Mirja/Dave*
- 9:35** Heads-up: ANRW talk: HTTP/3's Extensible Prioritization Scheme in the Wild - *Joris Herbots*
- 9:40** Peaking Beyond the Best Route: An Extensive Dataset for Looking Glasses - *Pascal Hennen (remote)*
- 9:55** Testing Protocols in Simulated Network Conditions - *Tommy Pauly*
- 10:05** Watching Stars in Pixels: The Interplay of Traffic Shaping and YouTube Streaming QoE over GEO Satellite Networks - *Jiamo Liu (remote)*
- 10:20** A First Look At NAT64 Deployment In-The-Wild - *Amanda Hsuan (remote)*
- 10:35** Preparing to Detect IPv6 Attacks on Your IoT Devices - *Phil Roberts (remote)*
- 10:45** Understanding anomalies using a baseline dataset comparison - *Wes Hardaker*
- 11:00** Field Experiments on Post-Quantum DNSSEC - *Peter Thomassen/Jason Goertzen*