

Measurement and Analysis for Protocols

Research Group (maprg)

Nov 10, 2022

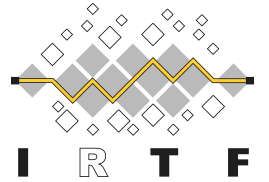
IETF115 in London

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

Mirja Kühlewind <mirja.kuehlewind@ericsson.com>

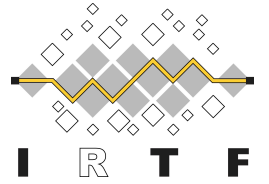
Dave Plonka <dave@plonka.us>

Note Well – Intellectual Property



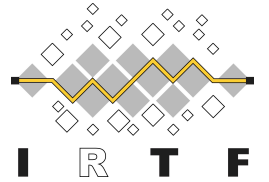
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- By participating in the IRTF, you agree to follow IRTF processes and policies:
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Note Well – Audio and Video Recordings



- 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



- 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](#)

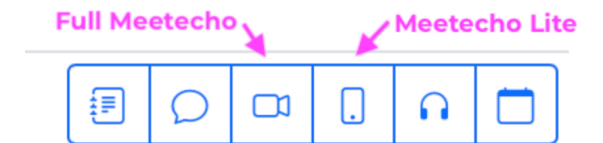
Administrativa

- 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/115/session/maprg/>
- Meetecho: <https://meetings.conf.meetecho.com/ietf115/?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*
- **Wear masks unless actively speaking at the microphone.**



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

13:00 **Overview & Status** - Mirja & Dave

13:05 **Heads-up talk: Kirin: Hitting the Internet with Millions of Distributed IPv6 Announcements** - Paweł Foremski

13:10 **Waiting for QUIC: On the Opportunities of Passive Measurements to Understand QUIC Deployments** - Jonas Mücke

13:25 **DNS Privacy with Speed? Evaluating DNS over QUIC and its Impact on Web Performance** - Robin Marx

13:40 **A First Look at Starlink Performance** - François Michel

13:55 **Illuminating Large-Scale IPv6 Scanning in the Internet** - Philipp Richter

14:10 **IoT Security by the Numbers** - Leslie Daigle

14:25 **Quo vadis IETF: is the IETF ossified?** - Ignacio Castro

14:35 **Where .ru? Assessing the Impact of Conflict on Russian Domain Infrastructure** - Gautam Akiwate

SPACE NETWORKS TESTBED: LEO NETWORK GLOBAL MEASUREMENT TESTBED

Ground terminals
over 3 continents



Starlink constellation with
potential to extend to
other mega-constellations

IMC'22 A Browser-side View of Starlink Connectivity

In nutshell:

- As of now Starlink Performance is comparable with other existing ISP (**but still not better than fibre broadband**)
- Starlink connection quality **changes** significantly **over location**
- **Network latency** can be **doubled** on a **rainy** day compared to clear sky day

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Microsoft



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Speakers for the first session

Deepak Vasisht, Assistant Professor, UIUC

Maurizio Vanotti, VP, New Markets, OneWeb

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