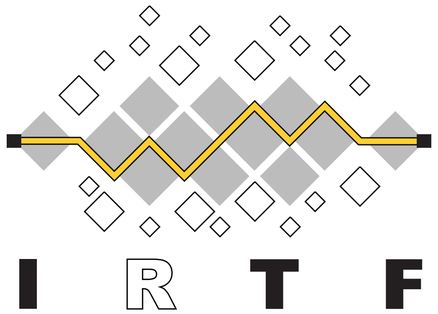


IRTF Open Meeting

Colin Perkins
IRTF Chair

IETF 115 / 9 November 2022

Note Well – Intellectual Property

- **The IRTF follows the IETF Intellectual Property Rights (IPR) disclosure rules**
- By participating in the IRTF, you agree to follow IRTF processes and policies:
  - If you are aware that any IRTF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion
  - The IRTF expects that you file such IPR disclosures in a timely manner – in a period measured in days or weeks, not months
  - The IRTF prefers that the most liberal licensing terms possible are made available for IRTF Stream documents – see RFC 5743
  - 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

- **This meeting is being recorded and live streamed**

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 – whether in-person or remote, and on the mailing lists as well as during the meetings – 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

In-Person and Remote Participation

- **In-person participants**
  - You MUST sign into the session using MeetEcho (usually the “onsite tool” 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

- Technical support: http://www.ietf.org/how/meetings/issues/

Reminder: Mask Policy

- As a COVID-safety measure, in-person participants in this meeting, and in other IETF-controlled rooms, are **required** to wear an FFP2/N95 mask, KN95/KF94/ FFP3 mask, or locally certified equivalent.
- The only exception is for chairs or presenters who are actively speaking
- Participants making comments or asking questions from the floor microphones are expected to remain masked.

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, the primary output of research groups is expected to be understanding and research results that may be disseminated by publication in scholarly journals and conferences

Research Groups (1/2)

CFRG
Crypto Forum Research Group

COINRG
Computation in the Network

DINRG
Decentralised Internet Infrastructure

GAIA
Global Access to the Internet for All

HRPC
Human Rights Protocol Considerations

ICCRG
Internet Congestion Control

ICNRG
Information-centric Networking

MAPRG
Measurement and Analysis for Protocols

NMRG
Network Management

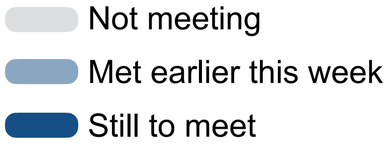
NWCRG
Network Coding for Efficient Network Communications

PANRG
Path Aware Networking

PEARG
Privacy Enhancements and Assessments

QIRG
Quantum Internet

T2TRG
Thing-to-Thing



Research Groups (2/2)

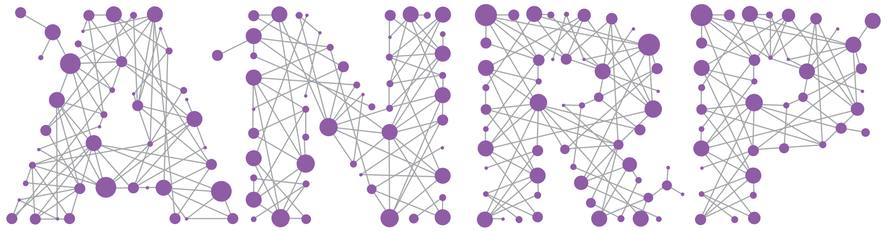
- Welcome **Simone Ferlin** and **Michael Schapira** who recently joined Jana Iyengar as co-chairs of the Internet Congestion Control Research Group (ICCRG)

- Two side meetings discussing potential new IRTF work this week:
  - **Usable formal methods** – Richmond **6**, 11:30 Thursday
  - **Researching Internet Standards Processes** – Mezzanine 12, 15:30 Thursday

Recent IRTF Stream RFCs

RFC 9316	Intent Classification	October 2022	NMRG
RFC 9315	Intent-Based Networking - Concepts and Definitions	October 2022	NMRG
RFC 9273	Network Coding for Content-Centric Networking / Named Data Networking: Considerations and Challenges	August 2022	ICNRG / NWCRG
RFC 9269	Experimental Scenarios of Information-Centric Networking (ICN) Integration in 4G Mobile Networks	August 2022	ICNRG
RFC 9265	Forward Erasure Correction (FEC) Coding and Congestion Control in Transport	July 2022	NWCRG

- IRTF research groups can publish Informational and Experimental RFCs, but their main focus is on developing understanding – research papers are more common outputs than RFCs
- “To me, the fundamental outcome of research is understanding, and the fundamental outcome of engineering is a product” – Fred Baker, quoted in RFC 7418



Applied Networking Research Prize

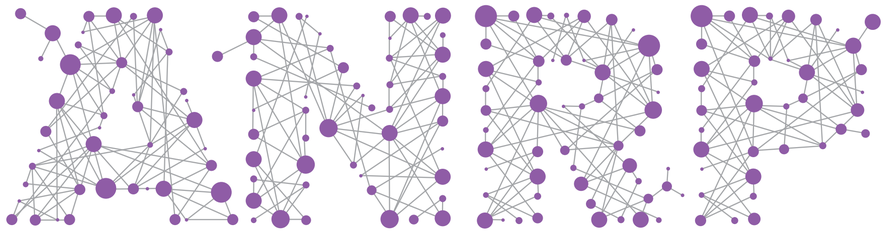
Internet Society

COMCAST

NBC UNIVERSAL

The Applied Networking Research Prize recognises:

- the best recent results in applied networking
- interesting new research ideas of potential relevance to the Internet standards community
- and upcoming people that are likely to have an impact on Internet standards and technologies



Applied Networking Research Prize

Internet Society

COMCAST

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Three ANRP award talks today:

- **Gautam Akiwate** for his work on the risks of domain hijacking due to registrar practices
- **Corinne Cath** for her ethnographic work on the IETF's distinct organisational culture and how its 'rough' edges limit the ability of human rights' advocates to get their concerns included in technical discussions
- **Daniel Wagner** for his work on DDoS attack detection and mitigation

Papers and slides at **https://irtf.org/anrp/**, recordings on IETF Channel on YouTube

Nomination deadline:
18 November 2022

https://irtf.org/anrp/

The IRTF is pleased to offer travel grants to support early career academics and PhD students from under-represented groups to attend the IRTF meetings co-located with the IETF

We also offer travel grants to attend the ACM/IRTF Applied Networking Research Workshop and make a small number of meeting fee waivers available

https://irtf.org/travelgrants

Thank you to our sponsors – please contact the IRTF Chair if you wish to help expand these programmes

Agenda

Time	Topic	Speaker
09:30	Introduction and Status Update	Colin Perkins
09:45	Risky BIZness: Risks Derived From Registrar Name Management	Gautam Akiwate
10:20	The Technology We Choose to Create: Human Rights Advocacy in the Internet Engineering Task Force	Corinne Cath
10:55	United We Stand: Collaborative Detection and Mitigation of Amplification DDoS Attacks at Scale	Daniel Wagner
11:30	Close	