IRTF Open Meeting

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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

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.
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<th>Research Groups (1/2)</th>
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<tr>
<td><strong>CFRG</strong></td>
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<td>Crypto Forum Research Group</td>
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<td><strong>ICCRG</strong></td>
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<td><strong>PANRG</strong></td>
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<td>Path Aware Networking</td>
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- **Not meeting**
- **Met earlier this week**
- **Still to meet**
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
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
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/](https://irtf.org/anrp/), recordings on IETF Channel on YouTube
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.
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<th>Topic</th>
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<tr>
<td>09:30</td>
<td>Introduction and Status Update</td>
<td>Colin Perkins</td>
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<tr>
<td>09:45</td>
<td>Risky BIZness: Risks Derived From Registrar Name Management</td>
<td>Gautam Akiwate</td>
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<td>10:20</td>
<td>The Technology We Choose to Create: Human Rights Advocacy in the Internet Engineering Task Force</td>
<td>Corinne Cath</td>
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<tr>
<td>10:55</td>
<td>United We Stand: Collaborative Detection and Mitigation of Amplification DDoS Attacks at Scale</td>
<td>Daniel Wagner</td>
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<td>11:30</td>
<td>Close</td>
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