IRTF Open Meeting

Colin Perkins
IRTF Chair

IETF 111 / 26 July 2021
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.
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.
Stay Informed About IRTF

https://irtf.org

@InReTaFo

https://www.facebook.com/inretafo/

• https://irtf.org/mailman/listinfo/irtf-announce – announcements
• https://irtf.org/mailman/listinfo/irtf-discuss – discussion
Research Groups

- CFRG: Crypto Forum Research Group
- COIN: Computation in the Network
- DINRG: Decentralised Internet Infrastructure
- GAIA: Global Access to the Internet for All
- HRPC: Human Rights Protocol Considerations
- 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 (proposed)
- QIRG: Quantum Internet
- T2TRG: Thing-to-Thing

Status:
- Not meeting
- Met earlier this week
- Still to meet
Recent IRTF Stream RFCs

RFC 9049  Path Aware Networking: Obstacles to Deployment  June 2021  PANRG
(A Bestiary of Roads Not Taken)

RFC 9064  Considerations in the Development of a QoS Architecture for
CCNx-Like Information-Centric Networking Protocols  June 2021  ICNRG
Applied Networking Research Prize (1/2)

- Awarded to recognise
  - 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

  with particular focus on people or ideas that would not otherwise get much exposure or be able to participate in the discussion

- Details at https://irtf.org/anrp/
Applied Networking Research Prize (2/2)

• Two ANRP prize winning talks today:
  • Rüdiger Birkner for his work on network specification and verification
  • Sadjad Fouladi for his work on low-latency video streaming

• Details at https://irtf.org/anrp/
• The ACM/IRTF Applied Networking Research Workshop runs concurrently with IETF 111

• Forum for researchers, vendors, network operators, and the Internet standards community to present and discuss emerging results in applied networking research

• Full programme, including papers and recordings of talks available at https://irtf.org/anrw/2021/
• Thank you Andra Lutu and Nick Feamster, and the programme committee, for organising

• Thank you to our sponsors: Akamai, Comcast, and ACM SIGCOMM
## Agenda

<table>
<thead>
<tr>
<th>Time (UTC)</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>21:30</td>
<td>Introduction and Status Update</td>
<td>Colin Perkins</td>
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<tr>
<td>21:40</td>
<td>Config2Spec: Mining Network Specifications From Network Configurations</td>
<td>Rüdiger Birkner</td>
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<tr>
<td>22:05</td>
<td>Salsify: low-latency network video through tighter integration between a video codec and a transport protocol</td>
<td>Sadjad Fouladi</td>
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<tr>
<td>22:30</td>
<td>Close</td>
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* Pre-recorded talks, live Q&A in the chat and after each talk