76th NMRG Meeting
IETF 120, Vancouver + Online

Chairs: Laurent Ciavaglia, Jérôme François
Secretaries: Jéferson Campos Nobre, Pedro Martinez-Julia

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 IRTF conducts research; it is not a standards development organization

The Internet Research Task Force (IRTF) focuses on longer term research issues related to the Internet while the parallel organization, the IETF, focuses on shorter term issues of engineering and standards making

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

Meeting useful links

- Materials: https://datatracker.ietf.org/meeting/120/session/nmrg
- Meetecho: https://meetings.conf.meetecho.com/ietf120/?session=33172
- Notes: https://notes.ietf.org/notes-ietf-interim-2024-nmrg-02-nmrg
- Video recording: https://www.youtube.com/user/ietf/playlists
  - Available post-meeting

Agenda

Session 1: Monday 2024-07-22 15:30-17:00 PDT

Session 2: Thursday 2024-07-25 13:00-14:30 PDT

- Refinement of NMRG Research agenda
- --> Green networking survey still open: https://forms.office.com/e/Th7HBrwBvZ

Today's agenda

- Introduction, RG Chairs, 10 min
- NDT challenges, draft-liest-nmrg-ndt-challenges, Marco Liebsch, 15 min
- Network Digital Twin: Concepts and Reference Architecture, draft-irtf-nmrg-network-digital-twin-arch, Dan King, 15 min
- Knowledge Graphs for YANG-based Network Management, draft-marcas-nmop-knowledge-graph-yang, Ignacio Martinez-Casanueva, 15 min
- Considerations of network/system for AI services, draft-hong-nmrg-ai-deploy, Yong-Geun, 15 min

Quick announcements

The Applied Networking Research Prize recognizes:

- 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

Internet Society

COMCAST

NBCUniversal

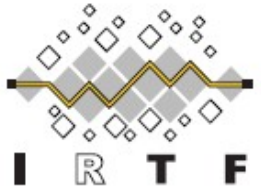
- Xieyang Xu for his work on improving test coverage for network configurations
- Yevheniya Nosyk for her work on understanding the root causes of DNS resolution failures
- Harjasleen Malvai for her work on key transparency for encrypted messaging

Papers and slides at https://irtf.org/anrp/

Quick announcements

The Applied Networking Research Workshop 2024 takes place tomorrow

- 12 full papers, 6 lightning papers, and one great keynote talk
- Thanks to the organizers, Jayasree Sengupta, Simone Ferlin, and Ignacio Castro, and to the reviewers



Program:
https://www.irtf.org/anrw/2024/program.html