

72nd NMRG Meeting

IETF 118, Prague + Hybrid

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
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 - 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
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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 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/118/session/nmrg>
- Meetecho: <https://meetings.conf.meetecho.com/ietf118/?group=nmrg>
- Notes: <https://notes.ietf.org/notes-ietf-118-nmrg>
- Video recording: <https://www.youtube.com/user/ietf/playlists>

Available post-meeting

NMRG Updates

Research agenda

- 20 October 2023 – interim meeting focused on AI and Data aspects
- Continue progress
 - Off-line: mailing list
 - Next interim meetings
 - Integration, refinement and consolidation by NMRG chairs

Future interim meetings

- Invite for monthly interims (next 6-9 months) to make progress and cover inputs received
 - research agenda topics
 - new topic/presentation proposals
- Rotating time zones
- Poll to be sent soon

Agenda

13:00 **Introduction**, RG Chairs, 05 min

13:05 **Knowledge Graphs for Network Management**, Ignacio Dominguez-Martinez

13:20 **Semantic Metadata Annotation for Network Anomaly Detection**, Thomas Graf

13:35 **Artificial Intelligence Framework for Network Management**, Pedro Martinez-Julia

13:50 **AI-Based Distributed Processing Automation in Digital Twin Network + Considerations of deploying AI services in a distributed method**, Yong-Geun Hong

14:05 **Performance-Oriented Digital Twins for Packet and Optical Networks**, Albert Cabellos

14:20 **Intent-Based Network Management Automation in 5G Networks**, Jaehoon Paul Jeong

14:35 **Challenges and Opportunities in Green Networking**, Alex Clemm

14:50 **KIRA: Scalable Zero-Touch Routing for Autonomous Control Planes**, Roland Bless