IETF 123

Information-Centric Networking

Research Group

25 July 2025

This session is being recorded

Internet Engineering Task Force
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- See RFC 7154 (Code of Conduct) and RFC 7776 (Anti-Harassment Procedures), which also apply to IRTF
- Also see RFC 9775 (IRTF Code of Conduct)

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

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IETF Meeting Tips

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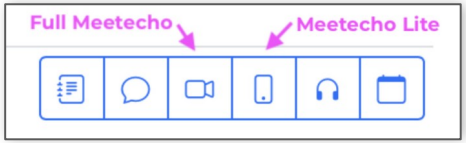

Remote participants

- Make sure your audio and video are off unless you are chairing or presenting during a session

ICNRG Administrivia

- IRTF RG on Information-Centric Networking
- Mailing list: icnrg@irtf.org
- Web: https://irtf.org/icnrg
- Chairs
  - Dirk Kutscher – HKUST(GZ)
  - Dave Oran – Network Systems Research Design
- This meeting
  - **Note taker:** Marie-José Montpetit, Ing. Ph.D.
  - Many thanks to Marie-José, who has been notetaker for many of our meetings and continues to do a stellar job when few people step up to volunteer!

Agenda

1	Introduction	Chairs	10 mins
2	Clock synchronization for defined-trust limited domains	Kathleen Nichols	30 mins
3	ICN for Cybernetic Avatar and Metaverse	Yusaku Hayamizu & Hitoshi Asaeda	20 Mins
4	AT Protocol	Daniel Holmgren	15 mins
5	Chunking Update	Hitoshi Asaeda	5 mins
6	Closing & Next Steps	Chairs	10 mins

Status: Active Drafts

Document		Date	Status
Active Internet-Drafts (3 hits)			
draft-irtf-icnrg-ccnxchunking-01 **CCNx Content Object Chunking**	10 pages	2025-03-16	I-D Exists IRTF stream
draft-irtf-icnrg-reflexive-forwarding-01 **Reflexive Forwarding for CCNx and NDN Protocols**	47 pages	2025-03-15	I-D Exists Active RG Document : Experimental
draft-irtf-icnrg-flic-07 **File-Like ICN Collections (FLIC)**	68 pages	2025-03-03	I-D Exists In RG Last Call : Experimental
Related Internet-Drafts and RFCs (2 hits)			
draft-oran-icnrg-flowbalance-13 **Maintaining CCNx or NDN flow balance with highly variable data object sizes**	16 pages	2025-03-31	I-D Exists
draft-asaeda-icnrg-ccnxcversioning-00 **CCNx Content Versioning**	11 pages	2025-03-03	I-D Exists

Presentations

Next Steps & Future Events

- Still Need timely review for:
  - FLIC
  - Reflexive Forwarding
- Is CCNXChunking ready for Last Call? Please weigh in on the ICNRG Mailing list!

We Plan to meet next at:

- IETF-124 in Montreal, 2 November 2025 - 7 November 2025
  - Think about potential contributions