IETF 116
Information-Centric Networking
Research Group

28 March 2023

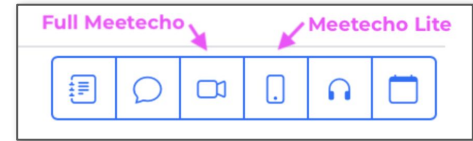This session is being recorded

I E T F®

Note Well

- **The IRTF follows the IETF Intellectual Property Rights (IPR) disclosure rules**
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  -

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IETF 116 Meeting Tips

In-person participants

- Make sure to sign into the session using the Meetecho (usually the "Meetecho lite" client) from the Datatracker agenda
- Use Meetecho to join the mic queue
- *Keep audio and video off if not using the onsite version*
- **Wear masks unless actively speaking at the microphone.**

Remote participants

- Make sure your audio and video are off unless you are chairing or presenting during a session
- Use of a headset is strongly recommended

Full Meetecho   Meetecho Lite

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

ICNRG Administrativia

- 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:**

Agenda

1	ICNRG Chairs' Presentation: Status, Updates	Chairs	10 min
2	FLIC Update	Mark Mosko	20 min
2	Reflexive Forwarding Update	Dave Oran	10 min
3	Media Delivery over QUIC (QUICR)	Cullen Jennings	30 min
4	Adaptive Media Streaming in ICN	Cedric Westphal	20 min
5	Loss Detection for ICN	Kazuaki Ueda	20 min
6	Buffer, Wrap Up and Next Steps	Chairs	05 min

RFC 9344

CCNinfo: Discovering Content and Network Information in Content-Centric Networks, FEBRUARY 2023

File formats:

Also available: XML file for editing

Status:
EXPERIMENTAL

Authors:
H. Asaeda
A. Ooka
X. Shao

Stream:
IRTF

Status

draft-irtf-icnrg-ccnx-timetlv-02   12 pages   2023-01-08   I-D Exists

Alternative Delta Time Encoding for CCNx Using Compact Floating-Point Arithmetic   IRSG Review : Experimental   Dirk Kutscher ✉

draft-irtf-icnrg-flic-04   40 pages   2022-10-24   I-D Exists

File-Like ICN Collections (FLIC)   Active RG Document : Experimental

draft-irtf-icnrg-icnping-07   20 pages   2022-10-16   I-D Exists

ICN Ping Protocol Specification   IRSG Review : Experimental   Dirk Kutscher ✉

draft-irtf-icnrg-icntraceroute-07   2022-10-16   I-D Exists

ICN Traceroute Protocol Specification   IRSG Review : Experimental   Dirk Kutscher ✉

draft-irtf-icnrg-pathsteering-00   18 pages   2022-10-13   I-D Exists   ①

Path Steering in CCNx and NDN   IRTF stream

Presentations

Omidyar Network Announces Winners of the Future of Data Challenge

Honors 15 new ideas that challenge, disrupt, and reimagine the way the data economy operates

NAMED DATA NETWORKING

Project   Architecture   Codebase   Testbed

Named Data Microverse

Jeff Burke – UCLA School of Theater, Film and Television | REMAP
Lixia Zhang – UCLA Department of Computer Science | Internet Research Lab
Dirk Kutscher – The Hong Kong University of Science and Technology (Guangzhou) | Future Networked Systems Lab

Winner of the Future of Data Challenge.

https://named-data.net/microverse/

IEEE International Conference on Metaverse Computing, Networking and Applications (MetaCom 2023)

June 26-28, 2023 · Kyoto, Japan.

http://www.ieee-metacom.org/2023

IEEE MetaCom Workshop on Decentralized, Data-Oriented Networking for the Metaverse (DORM)

Call for Papers

The Decentralized Data-Oriented Networking for the Metaverse (DORM) workshop is intended as a forum to explore new directions and early research results on the system architecture, protocols, and security to support Metaverse applications, focusing on data-oriented, decentralized system designs. We view Metaverse as a new phase of networking with multi-dimensional shared views in open realms.

Most Metaverse systems today replicate the social media platform model, i.e., they assume a cloud platform provider-based system architecture where identities and the trust among them is anchored via a centralized administrative structure and where communication is mediated through servers and an extensive CDN overlay infrastructure operated by that administration. The

Workshops

| DORM 2023 |
| DIM 2023 |
| MANP 2023 |
| MetaXP 2023 |
| VSM 2023 |

Important Days

April 7, 2023	Hard Submission Due
April 28, 2023	Author Notification
May 10, 2023	Camera-Ready Due

10th ACM Conference on Information-Centric Networking (ICN 2023)

The 10th ACM Conference on Information Centric Networking (ICN 2023) will be held October 8-10, 2023 in Reykjavik, Iceland. The organizing committee invites you to submit your research for presentation at ACM ICN 2023.

News

March 7, 2023	CFP posted online
February 10, 2023	Web site is online