

ICNRG Online Meeting

Information-Centric Networking Research Group
Monday, April 20th 2020

Chairs' Slides

Dirk Kutscher

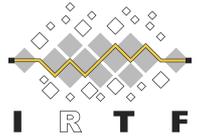
Dave Oran

Online Participation Instructions

- WebEx: <https://ietf.webex.com/ietf/j.php?MTID=mb5468806b3ea4500943bcf0387f32eaf>
- Etherpad: <https://etherpad.tools.ietf.org/p/irtf-icnrg-interim-2020-04-20>
- Jabber: xmpp:[icnrg@jabber.ietf.org](https://jabber.ietf.org)?join

Please remember that all sessions are being recorded. Please also:

- Ensure your video is off
- Keep yourself muted unless you are speaking.
- Use Webex chat only to join the mic queue
 - “+q” adds you to the queue
 - “-q” removes you from the queue
 - Add your name and affiliation to the virtual bluesheet (the session Etherpad) via IETF Datatracker Meeting agenda
 - Join the session Jabber room (see above)



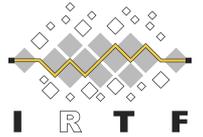
Note Well – Intellectual Property

- **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 – 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](#)

ICNRG Administrativa

- IRTF RG on Information-Centric Networking
- Mailing list: icnrg@irtf.org
- Web: <http://irtf.org/icnrg>
- Wiki: <http://trac.tools.ietf.org/group/irtf/trac/wiki/icnrg>
- Github: <https://github.com/icnrg>
- Chairs
 - Dirk Kutscher (University of Emden)
 - Dave Oran (Network Systems Research Design)
- This meeting
 - **Marie-Jose Montpetit (Merci beaucoup!)**
 - Etherpad:
<https://etherpad.tools.ietf.org/p/irtf-icnrg-interim-2020-04-20>
 - Meeting Materials:
<https://datatracker.ietf.org/meeting/interim-2020-icnrg-02/session/icnrg>

Tack för din tjänst, Börje



- Börje Ohlman stepped down as ICNRG co-chair
- He was co-chairing ICNRG from its beginning in 2012

- **Thanks, Börje
and best wishes for the future!**

New RFC!

RFC 7476 (was draft-irtf-icnrg-scenarios) Information-Centric Networking: Baseline Scenarios	2015-03 45 pages	Informational RFC
RFC 7927 (was draft-irtf-icnrg-challenges) Information-Centric Networking (ICN) Research Challenges	2016-07 38 pages	Informational RFC
RFC 7933 (was draft-irtf-icnrg-videostreaming) Adaptive Video Streaming over Information-Centric Networking (ICN)	2016-08 40 pages	Informational RFC
RFC 7945 (was draft-irtf-icnrg-evaluation-methodology) Information-Centric Networking: Evaluation and Security Considerations	2016-09 38 pages	Informational RFC
RFC 8569 (was draft-irtf-icnrg-ccnxsemantics) Content-Centric Networking (CCNx) Semantics	2019-07 40 pages	Experimental RFC
RFC 8609 (was draft-irtf-icnrg-ccnxmessages) Content-Centric Networking (CCNx) Messages in TLV Format	2019-07 46 pages	Experimental RFC
RFC 8763 (was draft-irtf-icnrg-deployment-guidelines) Deployment Considerations for Information-Centric Networking (ICN)	2020-04 30 pages	Informational RFC

New

Active Research Group Drafts

draft-irtf-icnrg-5gc-icn-02 Enabling ICN in 3GPP's 5G NextGen Core Architecture	2020-02-04 32 pages	I-D Exists Active RG Document:Informational	
draft-irtf-icnrg-ccninfo-04 CCNinfo: Discovering Content and Network Information in Content-Centric Networks	2020-03-22 34 pages	I-D Exists Active RG Document:Experimental	
draft-irtf-icnrg-disaster-10 Research Directions for Using ICN in Disaster Scenarios	2020-01-30 20 pages	I-D Exists : AUTH Sent to the RFC Editor:Informational	★
draft-irtf-icnrg-flic-02 File-Like ICN Collections (FLIC)	2019-11-04 31 pages	I-D Exists Active RG Document:Experimental	
draft-irtf-icnrg-icn-lte-4g-05 Native Deployment of ICN in LTE, 4G Mobile Networks	2019-11-04 37 pages	I-D Exists::Revised I-D Needed Waiting for Document Shepherd:Informational	
draft-irtf-icnrg-icnlowpan-07 ICN Adaptation to LoWPAN Networks (ICN LoWPAN)	2020-03-09 49 pages	I-D Exists Waiting for IRTF Chair:Experimental	★
draft-irtf-icnrg-icnping-00 ICN Ping Protocol Specification	2020-03-19 18 pages	I-D Exists Active RG Document:Experimental	
draft-irtf-icnrg-icntraceroute-00 ICN Traceroute Protocol Specification	2020-03-19 18 pages	I-D Exists Active RG Document:Experimental	
draft-irtf-icnrg-ipoc-01 Internet Protocol Tunneling over Content Centric Mobile Networks	2020-01-31 15 pages	I-D Exists Active RG Document:Experimental	
draft-irtf-icnrg-mapme-04 MAP-Me : Managing Anchorless Mobility in Content Centric Networking	2019-11-03 21 pages	I-D Exists IRTF stream	
draft-irtf-icnrg-nrs-requirements-03 Design Guidelines for Name Resolution Service in ICN	2019-11-04 19 pages	I-D Exists Waiting for IRTF Chair:Informational	★
draft-irtf-icnrg-nrsarch-considerations-04 Architectural Considerations of ICN using Name Resolution Service	2020-03-09 11 pages	I-D Exists Waiting for IRTF Chair:Informational	★
draft-irtf-icnrg-terminology-08 Information-Centric Networking (ICN): CCNx and NDN Terminology	2020-01-17 20 pages	I-D Exists : RFC-EDITOR Sent to the RFC Editor:Informational	★
draft-oran-icnrg-qosarch-04 Considerations in the development of a QoS Architecture for CCNx-like ICN protocols	2020-02-28 26 pages	I-D Exists Waiting for IRTF Chair	★

Document Review and Sign-up Spreadsheet

Link in ICNRG Wiki



ICNRG Document Review Signup and Tracking ☆ 📁

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	A	B	C	D	E	F
1	Instructions:	Add a row below the document row if needed				
2		Add the date and your Name/Email on that row				
3		When finished review, put in the date	Send review to ICNRG	Add url of message in the mail archive once posted		
4	Document	Title	Review Stage	Reviewer Names/Emails	Signup Date	Finish Date
5	draft-irtf-icnrg-ccninfo-04	CCNinfo: Discovering Content and Network Information in Content-Centric Networks	Possible Last Call			
6						
7	draft-irtf-icnrg-flic-02	File-Like ICN Collections (FLIC)	Possible Last Call	Ken Calvert <calvert@netlab.uky.edu>	18/04/2020	25/04/2020
8						
9	draft-irtf-icnrg-icnping-00	ICN Ping Protocol Specification	Recently Adopted			
10						
11	draft-irtf-icnrg-icntraceroute-00	ICN Traceroute Protocol Specification	Recently Adopted			
12						
13	draft-irtf-icnrg-ipoc-01	Internet Protocol Tunneling over Content Centric Mobile Network	Last Call	Luca Muscariello <muscariello@ieee.org>		23/04/2020
14						
15	draft-irtf-icnrg-mapme-04	MAP-Me : Managing Anchorless Mobility in Content Centric Networking	Assess for Adoption	Prakash Suthar (psuthar@cisco.com), Milan Stolic (mistolic@cisco.com), Anil Jangam (anjangam@cisco.com)		04/27/2020
16						
17	draft-anilj-icnrg-dnc-qos-icn-02	QoS Treatments in ICN using Disaggregated Name Components	More Review	Dave Oran <daveoran@orandom.net> Luca Muscariello <muscariello@ieee.org>		15/09/2019
18						
19	draft-choi-icnrg-aiot-02	Requirements and Challenges for User-level Service Managements of IoT Network by utilizing Artificial Intelligence	Initial Review	CG Wang <Chonggang.Wang@InterDigital.Com>	16/04/2020	

Agenda

1	Chairs' Presentation	Chairs	Almost done
2	CCNInfo Update	Hitoshi Asaeda	10 min
3	ICN Lowpan Update	Cenk Gündoğan	05 min
4	ICN Time TLV Update	Cenk Gündoğan	05 min
5	Reflexive Interest Forwarding	Dave Oran	20 min
6	NDN-DPDK Forwarder	Junxiao Shi	30 min
7	QoS Update	Anil Jangam	15 min

Wrap-up

- There is a great tool for asynchronous online collaboration: mailing list -- please use it!
- Please help with draft reviews (see spreadsheet)

- Future Meetings
 - Probably at least one more online meeting
 - Also happy to discuss new approaches, e.g., focused online meetings on interesting topics

- Stay safe, everyone!