ICNRG Online Meeting

Information-Centric Networking Research Group
Post-IETF-112
Friday, December 10th, 2021

Chairs' Slides
Dirk Kutscher
Dave Oran
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 Administrivia

- IRTF RG on Information-Centric Networking
- Mailing list: icnrg@irtf.org
- Web: https://irtf.org/icnrg
- Wiki: https://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
  - https://datatracker.ietf.org/meeting/interim-2021-icnrg-01/session/icnrg
  - https://notes.ietf.org/icnrg-interim-2021-12-10
  - Note taker: Ken Calvert – Thanks!
## Agenda

<table>
<thead>
<tr>
<th></th>
<th>Agenda Item</th>
<th>Presenter</th>
<th>Duration</th>
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<tbody>
<tr>
<td>1</td>
<td>Chairs’ Presentation: Status, Updates</td>
<td>Chairs</td>
<td>05 min</td>
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<tr>
<td>2</td>
<td>Zenoh - The Edge Data Fabric</td>
<td>Carlos Guimarães</td>
<td>30 min</td>
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<tr>
<td>3</td>
<td>The SPAN Network Architecture</td>
<td>Rhett Sampson</td>
<td>30 min</td>
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<tr>
<td>4</td>
<td>NDNts API Design</td>
<td>Junxiao Shi</td>
<td>30 min</td>
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<tr>
<td>5</td>
<td>Discussion and Other Business</td>
<td>Chairs, All</td>
<td>25 min</td>
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# New RFCs!

<table>
<thead>
<tr>
<th>RFC</th>
<th>Title</th>
<th>Date</th>
<th>Pages</th>
<th>Category</th>
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<tbody>
<tr>
<td>9138</td>
<td>Design Considerations for Name Resolution Service in Information-Centric Networking (ICN)</td>
<td>2021-12</td>
<td>17</td>
<td>Informational RFC</td>
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<td>9139</td>
<td>Information-Centric Networking (ICN) Adaptation to Low-Power Wireless Personal Area Networks (LoWPANs)</td>
<td>2021-11</td>
<td>42</td>
<td>Experimental RFC</td>
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# Active RG Drafts

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<td>draft-irtf-icnrg-ccninfo-08</td>
<td>2021-07-27</td>
<td>I-D Exists</td>
<td>37</td>
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<td>CCNinfo: Discovering Content and Network Information in Content-Centric Networks</td>
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<td>draft-irtf-icnrg-flic-03</td>
<td>2021-11-07</td>
<td>I-D Exists</td>
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<td>File-Like ICN Collections (FLIC)</td>
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<td>draft-irtf-icnrg-icn-lte-4g-10</td>
<td>2021-07-30</td>
<td>I-D Exists</td>
<td>43</td>
<td>Awaiting IRSG Reviews:Informational</td>
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<td>Experimental Scenarios of ICN Integration in 4G Mobile Networks</td>
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<td>draft-irtf-icnrg-icnping-03</td>
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<td>ICN Ping Protocol Specification</td>
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<td>draft-irtf-icnrg-nrsarch-considerations-06</td>
<td>2021-02-12</td>
<td>I-D Exists::Revised I-D Needed</td>
<td>13</td>
<td>In IRSG Poll:Informational</td>
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<td>Architectural Considerations of ICN using Name Resolution Service</td>
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Next Steps

- Completed and in RFC publishing pipeline
  - nsarch-considerations
  - Lte-4g

- Completed RG last call
  - ccninfo: minor updates: ready for IRSG review

- Important in-progress adopted work
  - FLIC: thorough review needed
  - Traceroute & Ping: ready for last call

- Review and consideration for adoption
  - path steering
  - reflexive forwarding
  - TimeTLV
Potential New Work

● IoT
  ○ ICN & LoRa

● Application Support
  ○ Synch, APIs

● Distributed Computing Support
  ○ ICN as enabler for Computing in the Network

● QoS
  ○ Do we want to push this forward starting from the work in RFC 9064?
Presentations
Wrap-up

● **Next meeting**
  ○ IETF-113 if in-person/hybrid
  ○ Else: Online interim meeting before or after IETF-113

● **ACM ICN-2022 in Osaka!**
  ○ Expect CfP and other info soon

● **Stay safe, everyone! We’re getting to the end of the slog, hopefully!**