

# **ICNRG Meeting @ IETF95 Buenos Aires**

**Information-Centric Networking Research Group  
Thursday, April 7, 2016**

Chairs' Slides

Dirk Kutscher  
Börje Ohlman  
Dave Oran

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# ICNRG Administrativa

- IRTF RG on Information-Centric Networking
- Mailing list: [icnrg@irtf.org](mailto:icnrg@irtf.org)
- Web: <http://irtf.org/icnrg>
- Wiki: <http://trac.tools.ietf.org/group/irtf/trac/wiki/icnrg>
- Chairs
  - Dirk Kutscher (NEC Laboratories Europe)
  - Börje Ohlman (Ericsson Research)
  - Dave Oran (Cisco Systems)
- This meeting
  - **Note taker: Ralph Droms**
  - <https://neclab.titanpad.com/ICNRG-BA-Thursday>

# ICNRG Thursday Agenda

- Welcome, Agenda Bashing, Minutes taker, Bluesheets, Status - 10 min
- Reports from interim meetings in Paris and Buenos Aires -- 15 min
- CableLabs white paper presentation (30 min)
- Small specification updates (Marc/Nacho/Chris) (20 min)
- CCNx (was LCI) naming document updates (Marc/Nacho/Chris) (30 min)
- IoT (30 min)
  - a. <https://tools.ietf.org/html/draft-zhang-icn-iot-architecture-00>
- Status of terminology work
- Discussion on future work items/topics (20 min)
  - a. Possible Interop in Berlin?
  - b. Routing
  - c. Application design experience/considerations
- Wrap up, Next meetings (10 min)
  - a. Interim in Berlin?
  - b. Interim i Japan in conjunction with ACM ICN-2016 conference?

# Documents Update 1/3

- ICNRG CCNX protocol specs
  - [draft-irtf-icnrg-ccnxmessages-02](#)
  - [draft-irtf-icnrg-ccnxsemantics-02](#)
  - [draft-mosko-icnrg-ccnxurischeme-00](#)
- Other work around ccnx
  - manifests, link control, UDP underlay, forwarder discovery

# Documents Update 2/3

- **ICN Research Challenges**

- <https://tools.ietf.org/html/draft-irtf-icnrg-challenges-06>
- Passed IRSG Review and Poll, on telechat agenda next week

- **Evaluation Methodology**

- <https://tools.ietf.org/html/draft-irtf-icnrg-evaluation-methodology-04>
- Addressed comments from IRSG review, received additional comments
- New version will be out shortly.

- **Video**

- <https://tools.ietf.org/html/draft-irtf-icnrg-videostreaming-07>
- Passed IRSG Review, awaiting completion of IRSG Poll

- **Disaster Scenarios**

- <https://tools.ietf.org/html/draft-irtf-icnrg-disaster-00>
- (RG item since February)

# Documents Update 3/3

- IoT

- Merged requirements draft

- [Draft-zhang-icnrg-requirements-00.txt](#)

- Want to move forward publication -- any views?

- Authors have new version in pipeline

- Proposal: call for adoption on list, after the meeting

- Other draft on design choices

- [draft-lindgren-icnrg-designchoices-00](#)

# Report from ICNRG Paris Interim (January)

- ICN 5G (summary of recent mailing list discussion) -- Dirk Kutscher
- Mobility in ICN
- Realizing Mobility-as-a-Service over CCN -- Ravi Ravindran
- Supporting Mobility in Named Data Networking - Alex Afanasyev
- ICN Network Service and Privacy
- Role of manifests
- FLIC/Manifests -- Nacho, Marc, Chris
- Options for network support, caching, prefetching etc.
- Privacy requirements and potential solutions
- Encryption and encapsulation -- Nacho, Marc, Chris
- Nameless objects -- Nacho, Marc, Chris
- Key exchange -- Nacho, Marc, Chris
- [draft-seedorf-icn-disaster-05.txt](#) -- Jan Seedorf

# Report from BA Interim (Sunday)

- NDN architectural principles, <http://named-data.net/project/ndn-design-principles/> - Jeff Burke
- CCNx simulator announcement (Marc Mosko)
- Software distribution overview (Nacho Solis)
- Compression (Marc Mosko)
- Privacy
  - Intro (Dirk)
  - Private Communication in ICN -- Chris
  - Approaching Privacy over ICN: Values-in-Design Approach -- Jeff
  - CCNx-KE vs (D)TLS -- Chris
  - Session-Based Content Distribution with CCNx-KE -- Chris
  - Meaningful privacy protection in ICN -- Stephen
  - Discussion
- <https://tools.ietf.org/html/draft-ravi-ccn-forwarding-label-01>
- <https://tools.ietf.org/html/draft-ravi-ccn-notification-00>
- Name Resolution (Jungha)

# Next

- CableLabs white paper presentation
- Small specification updates
- CCNx (was LCI) naming document updates
- New work: Terminology draft

# Wrap up -- Future Work

- Possible Interop in Berlin?
- Routing
- Application design  
experience/considerations

# Wrap up

## Next regular meeting:

- IETF-96 Berlin, July 17 -- 22, 2016
- Interest for additional interim meeting on Sunday before?
- Other events: RIOT Summit on July 15-16 2016

## Future interim meetings

- At ACM ICN-2016 Conference in Kyoto, likely on the Thursday September 29, directly following the conference (planned)