



# IRTFOPEN Meeting @IETF 102

Allison Mankin, IRTF Chair

# Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully. The IRTF follows the IETF's policies.

As a reminder:

By participating in the IRTF, you agree to follow IETF processes and policies.

If you are aware that any IETF or 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.

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 IETF Privacy Statement.

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.

Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to the RG Chairs or IRTF Chair:

BCP 9 (Internet Standards Process)

BCP 25 (Working Group processes)

BCP 25 (Anti-Harassment Procedures)

BCP 54 (Code of Conduct)

BCP 78 (Copyright)

BCP 79 (Patents, Participation)

<https://www.ietf.org/privacy-policy/> (Privacy Policy)

# More Policy

- Because of the Applied Networking Research Prize, there is a lot of photography during the IRTFOPEN session.
- The IRTF follows the IETF statement on still photography consent
- Reminder to RG Chairs: don't forget your Note Wells (see email)

# Mission

- The Internet Research Task Force focuses on longer term research issues related to the Internet while the parallel organization, the Internet Engineering Task Force, focuses on the shorter term issues of engineering and standards making
- Organized into Research Groups (parallel to but different to WGs)
- Organized with an Internet Research Steering Group consisting of the RG Chairs and a small number of At Large members
- **NO standardization here – documents from IRTF will be Experimental or Informational**

# Agenda

- Opening remarks, IRTF Chair - 10 mins
  - Any Questions?
- Applied Network Research Prize talks
  - Maria Apostolaki, ETHZ
  - Panagiotis (Panos) Papadimitratos, KTH

# All the Research Groups (<https://irtf.org>)

- *Crypto Forum (CF) RG*
- *Decentralized Internet Infrastructure*  
*Proposed RG – 3<sup>rd</sup> meeting*
- *Global Access to the Internet for All (GAIA) RG*
- *Human Rights Protocol Considerations (HRPC) RG*
- *Internet Congestion Control (ICC) RG*
- *Information-Centric Networking (ICN) RG*
- *Measurement and Analysis for Protocols (MAP) RG*
- *Network Function Virtualization (NFV) RG*
- *Network Management (NM) RG*
- *NetWork Coding for Efficient Network Communications (NWC) RG*
- *Path Aware Networking (PAN) RG*
- *Planning: Privacy Enhancements and Assessments* *Proposed RG in planning*
- *Quantum Internet* *Proposed RG* (QIRG)
- *Thing-to-Thing (T2T) RG*

# Research Groups News at IETF 102

- Privacy Enhancements and Assessments Research (PEAR) – planning meeting this evening: 18:20, Rue Saint-Denis
  - Charter draft is out on the mailing list
- Deliberating this week after open searches to replace co-chairs in HRPC and NMRG
  - Thanks again to the co-chairs who stepped down for their hard work: Niels ten Oever and Lisandro Granville
- Will be looking for a 3<sup>rd</sup> co-chair for CFRG

# PEARG (in planning)

- Will work in parallel fashion to CFRG, providing a path from privacy protocol research towards the IETF
- Will coordinate with Security Area and HRPC on privacy assessments
- Example assessment: help to obtain expertise and review cryptographic choices and privacy assurances in new Message Layer Security (MLS) WG
- Example topics: to be discussed

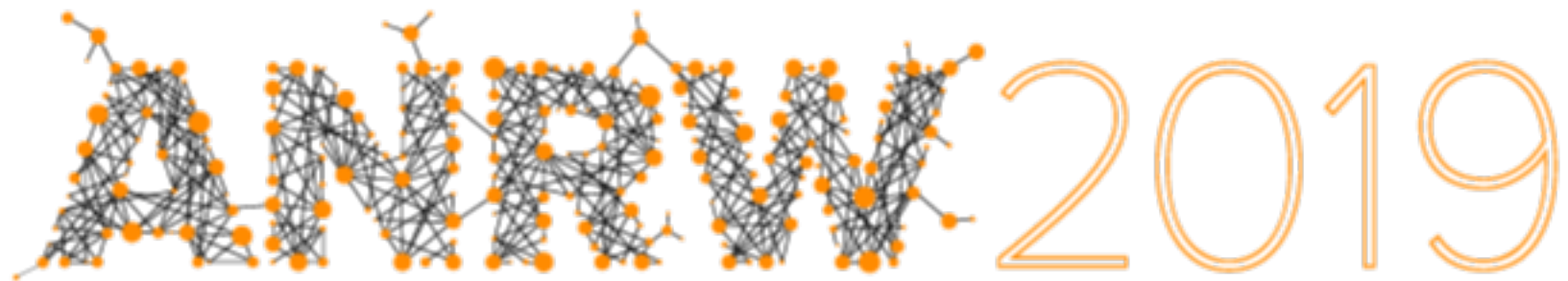


# DINRG

- Maybe should be spelled DIIN (or  $DIN^2$ ?) – Distributed Internet Infrastructure Proposed RG
- Meeting Friday and will be reviewed for transition from Proposed after that
- Lively charter revision ongoing on mailing list
- On agenda: experimental consensus protocol and more

# ANRW News at IETF 102 – ANRW 2018!

- Thanks to Sharon Goldberg, Mat Ford, Dave Choffnes, the TPC, the speakers, and the poster presenters
  - Video and proceedings will be announced soon
- Welcome to IRTFOPEN and to the rest of IETF week, workshop participants
- 100 registered participants, approximately 2/3 of whom are here for the week
- Peaked at 200 in the room (with IETFers attending individual sessions)
- Many thanks to the sponsors: ISOC, ACM, Akamai, Comcast, and Salesforce
  - See Mat if you know of interested sponsors for next year



Applied Networking Research Workshop

# Join In

IRTF-Discuss and IRTF-Announce  
lists (at [irtf.org](http://irtf.org))

RG mailing lists and wiki links on  
[irtf.org](http://irtf.org)

ANRW (at [irtf.org/anrw/](http://irtf.org/anrw/))

Email me at [IRTF-Chair@irtf.org](mailto:IRTF-Chair@irtf.org)

Email the IRSG at [IRSG@irtf.org](mailto:IRSG@irtf.org)

IRTF is also on twitter @inretafo

## Comments on DNS Robustness

Mark Allman  
Reformed IETF Native

Applied Networking Research Workshop  
July 2018

*"Been away so long I hardly knew the place,  
Gee, it's good to be back home"*

# ANRP – “Best Paper” Prizes – 2 Per IETF

- Applied networking and applied security
- Rotating program committees consider technical interest and IRTF/IETF potential
- *We had our biggest set of submissions ever this year*
- Warm Thank You to the Sponsors:
  - Comcast
  - NBC Universal
  - Internet Society
- Awardees receive a monetary prize and travel to at least one IETF in that year
- Thanks to the new sponsorships, we will sponsor 1-2 follow-up trips per meeting as well
- **Returnees at IETF 102:**
  - **Roya Ensafi, on agenda in HRPC**
  - **Paul Emmerich, on agenda in BMWG**

# IRTFOPEN @IETF 102 Agenda

## **Applied Network Research Prize talks**

Maria Apostolaki, ETH Zürich, CH

Hijacking Bitcoin: Routing Attacks on Cryptocurrencies

45 mins + Q&A

Panos Papadimitratos, KTH, SE

SECMACE: Scalable and Robust Identity and Credential Infrastructure in Vehicular Communication

45 mins + Q&A

•





# Appendix



# FAQ: Disambiguating the ANR Things

## **Applied Networking Research Prize**

- Annual Call for Nominees
- Prize for Already Published Paper
- Two presentations at each IETF

## **Applied Networking Research Workshop**

- Annual Call for Papers
- Both Already Published and New (Short) Papers
- Presentations in a day-long workshop collocated with the Summer IETF