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 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

• 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
DINRG Administrativia

• IRTF RG on Decentralized Internet Infrastructure
• Mailing list: din@irtf.org
• Web: https://irtf.org/dinrg
• Chairs
  • Dirk Kutscher (HKUST(GZ))
  • Lixia Zhang (UCLA)
• This meeting
  • Note taker:
Recap: DINRG meeting at IETF 114

https://datatracker.ietf.org/meeting/114/session/dinrg

• Takeaways from DINRG June 2021 workshop
  • Economy of scale motivates corporations to grow big
    • few regulatory constraints on a market driven by economy of scale
    → increasing centralization of internet apps, infrastructure, and consequential the control power & influence of a small number of players
  • Lack of effective security solutions further drive centralization
    • Only massive systems have capabilities to absorb all forms of DDoS
    • Limitation of web security: user2user communicate thru cloud
  • Further discussions needed

• Making DINRG as a focal point to collect all inputs and to organize discussions
Moving forward from last IETF

• Since IETF114: multiple inputs, growing interests on the topic from the broader community

• Today:
  • Starting active discussions
    • Internet centralization (collect measurements, identify root cause)
    • exploration of mitigation approaches
  • DINRG charter update
    • Discussion at the end of today’s meeting
    • A side meeting has been scheduled: 10:30-11:30 Wednesday Nov 9, in Richmond 6
Today’s agenda:

- Chairs: Status, Updates (10 min)
- Internet Consolidation: Mark McFadden (20 min)
- Protocol and Engineering Effects of Consolidation: Dominique Lazanski (15 min)
- Web Centralization: Jens Finkhäuser (20 min)
- Power of Attorney (PoA) based authorization: Olov Schelén (20 min)
- Internet-Wide Realm Crossover: Rick van Rein (10 min)
- DINRG Charter Discussion: all (25 min)