

## Report to the IETF-65 Plenary

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## **IRTF Status (1)**

- ASRG, MobOpts, DTNRG, HIPRG, P2PRG meeting at this IETF
- ASRG review with IAB
- New Research Groups (TMRG, ICCRG) are making progress
- Trying IRTF RFC process: `draft-irtf-rfcs-00.txt`

## IRTF Status (2)

- Bar-BoF, charter development on *scalable, small-group multicast*
- Charter under construction for a *MANET RG*
- RFC Editor about to publish “*IAB Thoughts on the Role of the Internet Research Task Force*”

## **Anti-Spam Research Group**

- DNSBL draft in publication process, BCP-ish document coming soon
- Working in parallel with DKIM on aspects of DKIM that are interesting but aren't part of the standard
- Also looking at some general issues, notably taxonomies of message types to provide a common vocabulary \*

\*but we're still not going to define "spam"

## **Delay-Tolerant Networking Research Group**

- New co-chair Stephen Farrell
- Starting `draft-irtf-dtnrg-arch-05.txt` into IRTF RFC process; others soon
- Meeting Friday morning at the Sheraton in addition to IETF scheduled session
- New reference implementation release (this or next week)
- DARPA DTN program phase 1 completing—phase 2 a possibility but no promises or official word yet

## **End-to-End Research Group**

- Craig Partridge and Karen Sollins now formally RG chairs
- The group met most recently in Los Angeles in early March for a day and a half.
- Topics of discussion included:
  - The tussle between locality and universality
  - New frontiers in control theory as applied to large scale networks
  - Individual talks by various members on their current research efforts including Role-Base Architecture, identity and routing, economics and the Internet, etc.

## **Host Identity Protocol Research Group**

- Draft on legacy NAT traversal (problem statement) is in the new IRTF review process, and may transition into the HIP WG
- Progressing drafts on a number of topics including the experiment report, NAT traversal, interaction with SIP, privacy concerns, and opportunistic mode extensions
- RG is meeting on Friday to discuss drafts and show a few software demonstrations

## IP Mobility Optimizations Research Group

- *“Route Optimization Enhancements for IP Mobility”* submitted to IRSG for Research Track RFC
- Discussing Location Privacy, Transport Optimizations, Network-controlled Handovers and, Multicast and Mobility
- Implementation testbeds on *“Layer 2 Abstractions for Fast Mobility”* and *“Mobile IPv6 Signaling Latency Improvements”* have been made available.



## **Internet Congestion Control Research Group**

- Discussing definitions of congestion and TCP inadequacies
- Next: new requirements for congestion control

## Network Management Research Group

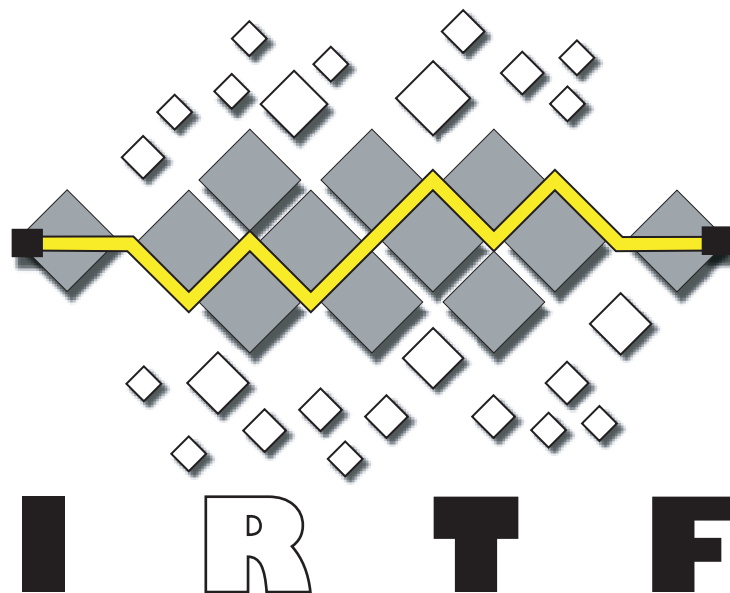
- Two day meeting at KTH in Stockholm in January to discuss
  - **promise theory** - a formal way to describe and reason about promise relationships and policies in distributed systems
  - **distributed monitoring** - algorithms to dynamically distribute data collection and aggregation
- Work on SNMP traffic trace collection and analysis progresses and might be discussed at the Montreal IETF meeting

## Peer-to-Peer Research Group

- `draft-irtf-p2prg-core-problem-statement-00.txt` by John Buford, K. Ross, and M. Kolberg Research – goals towards investigating new designs for a global scale service discovery.
- `draft-irtf-p2prg-survey-search-00.txt` by John Risson and T. Moors – A survey of the research on P2P search methods.
- `draft-irtf-p2prg-p2pv6-00.txt` by Luca Caviglione and Bill Yeager – Research proposal for understanding the implications of writing P2P systems based on IPv6 as well as migrating IPv4 P2P systems to IPv6.

## **Transport Modeling Research Group**

- Current goals: Make progress on best-current-practice scenarios for
  - simulations and testbeds, and
  - evaluating congestion control mechanisms.



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