IETF 70
Technical Plenary
Agenda

• Welcome
• IRTF Chair’s report
  – Aaron Falk
• IAB Chair’s report
  – Olaf Kolkman
• What Makes For a Successful Protocol
  – Dave Thaler
• Energy Engineering for Protocols and Networks
  – Bruce Nordman
  – Elwyn Davies
• Open microphone session
Update on the Internet Research Task Force

Aaron Falk
IRTF Chair

IETF-70 – Vancouver, British Columbia
IRTF Status

• Three Research Groups met at this IETF
  – HIPRG, MOBOPTS, RRG

• Writing a document to formalize IRTF RFCs

• Another IRTF RFC published since IETF-69
  – ~10 drafts in-progress towards publication

• Discussing P2PRG chair, charter

• Reviewed the RRG with the IAB
Suggestions for New Work

• RG follow-up for the IAB workshop on *unwanted traffic mitigations*

• Interest in RG on *network virtualization*

• Interest in RG on a *QoS policy framework*

• Suggestion in TSV to create an RG on *cross-layer communication*
A few RG highlights...
Routing Research Group

- Lots of activity

- Evaluating several new routing architecture proposals

- Planning to start pushing for convergence on a recommendation by March 2009
Delay Tolerant Networking
RG

- RFC 5050 (bundle protocol) published
  - 17 drafts in the tracker

- DARPA-sponsored field test of bundle protocol/DTN implementation met objectives in 2-week test in Nov

- Will meet in Philadelphia
Host Identity Protocol RG

• Several P2PSIP designs based on HIP

• New draft on HIP middlebox authentication

• Bunch of HIP deployments
Internet Congestion Control RG

- Evaluating congestion control proposals for TSV area

- Writing survey of current congestion control RFCs
  - Intention: provide CC designers with guide to related work

- Writing survey of open CC research issues
Internet Measurement RG

• Held a workshop on *Application Classification and Identification* (October 3)
  – *how prohibitive is deep-packet inspection?*
  – *how can we compare techniques given the sensitive nature of the data?*
Network Management RG

- Workshop/Meeting on *SNMP Trace Analysis* (November 8-9)
  - Common definitions for aggregating SNMP messages contained in traces into flows, slices, slice sets, etc.
  - Visualization of flows, slices, slices sets etc.
Transport Modeling RG

• Winding up modeling recommendations

• New community effort on TCP benchmarks
  – particular emphasis on tools & facilities
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Internet Architecture Board Update

Olaf M. Kolkman
December 6, 2007
IAB
a (traditional) reminder

• IAB Charter: RFC2850
  http://www.iab.org/about/overview.html

• Documents

• Minutes
  http://www.iab.org/documents/iabmins/index.html

• Correspondence
  http://www.iab.org/documents/correspondence/index.html

• Liaisons and more all via the IAB website
Document Activity

Architectural documents

• RFC publications
  – RFC 4984: Report from the IAB Workshop on Routing and Addressing
Architectural activity

- Principles of Internet Host Configuration
  – draft-iab-ip-config-00
- What Makes For a Successful Protocol?
  – draft-iab-protocol-success-01
- Encouragement to IESG to work on a NAT-PT successor
  – http://www1.ietf.org/mail-archive/web/ietf/current/msg48436.html
Inter-Organizational

Appointments:
• Ralph Droms as Cablelabs liaison
• Monique Morrow as liaison for ITU-NGN
• Ole Jacobsen as IETF member of the ICANN NOMCOM

• IETF to become an ISO/JTC Approved Reference authority
• Tracking developments with respect to IGF and OECD preparations
  – Working with ISOC when and where needed
Inter Organizational (T-MPLS)

• Joint IAB/IESG message to ITU-T leadership about concerns with respect to T-MPLS use of the MPLS Ethertypes

• ITU-T decision process not finalized

• IETF preparing for the work to land through the establishment of an IAB ad-hoc committee
IAB Technical Ad-Hoc Committee on T-MPLS

- Identifying an action list for the IETF
  - Inventory of IETF decisions to be revisited
- Identifying incompatibles and inconsistencies between IETF and ITU-T documents
- Organise how to take care of ITU-T mpls/pwe3 requirements
- More info:
  - http://www.iab.org/about/adhocs/tmpls-charter.html
Worth Mentioning

• RIPE NCC signed e164.arpa (November 28)
• We have had no appeals
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