

Transport Area Open Meeting

Magnus Westerlund

Ericsson

Lars Eggert

Nokia Research Center

Transport Area Open Meeting

IETF-70, Vancouver, Canada

December 4, 2007

Note Well

Any submission to the IETF intended by the Contributor for publication as all or part of an IETF Internet-Draft or RFC and any statement made within the context of an IETF activity is considered an "IETF Contribution". Such statements include oral statements in IETF sessions, as well as written and electronic communications made at any time or place, which are addressed to:

- the IETF plenary session,
- any IETF working group or portion thereof,
- the IESG, or any member thereof on behalf of the IESG,
- the IAB or any member thereof on behalf of the IAB,
- any IETF mailing list, including the IETF list itself, any working group or design team list, or any other list functioning under IETF auspices,
- the RFC Editor or the Internet-Drafts function

All IETF Contributions are subject to the rules of RFC 3978 and RFC 3979.

Statements made outside of an IETF session, mailing list or other function, that are clearly not intended to be input to an IETF activity, group or function, are not IETF Contributions in the context of this notice.

Please consult RFC 3978 for details.

Minutes, Slides, Audio & Jabber

- **minute takers**

- **slides**

[https://datatracker.ietf.org/
public/meeting_materials.cgi?meeting_num=70](https://datatracker.ietf.org/public/meeting_materials.cgi?meeting_num=70)

- **audio**

<http://videolab.uoregon.edu/events/ietf/>

- **jabber**

http://www.ietf.org/meetings/text_conf.html

Agenda

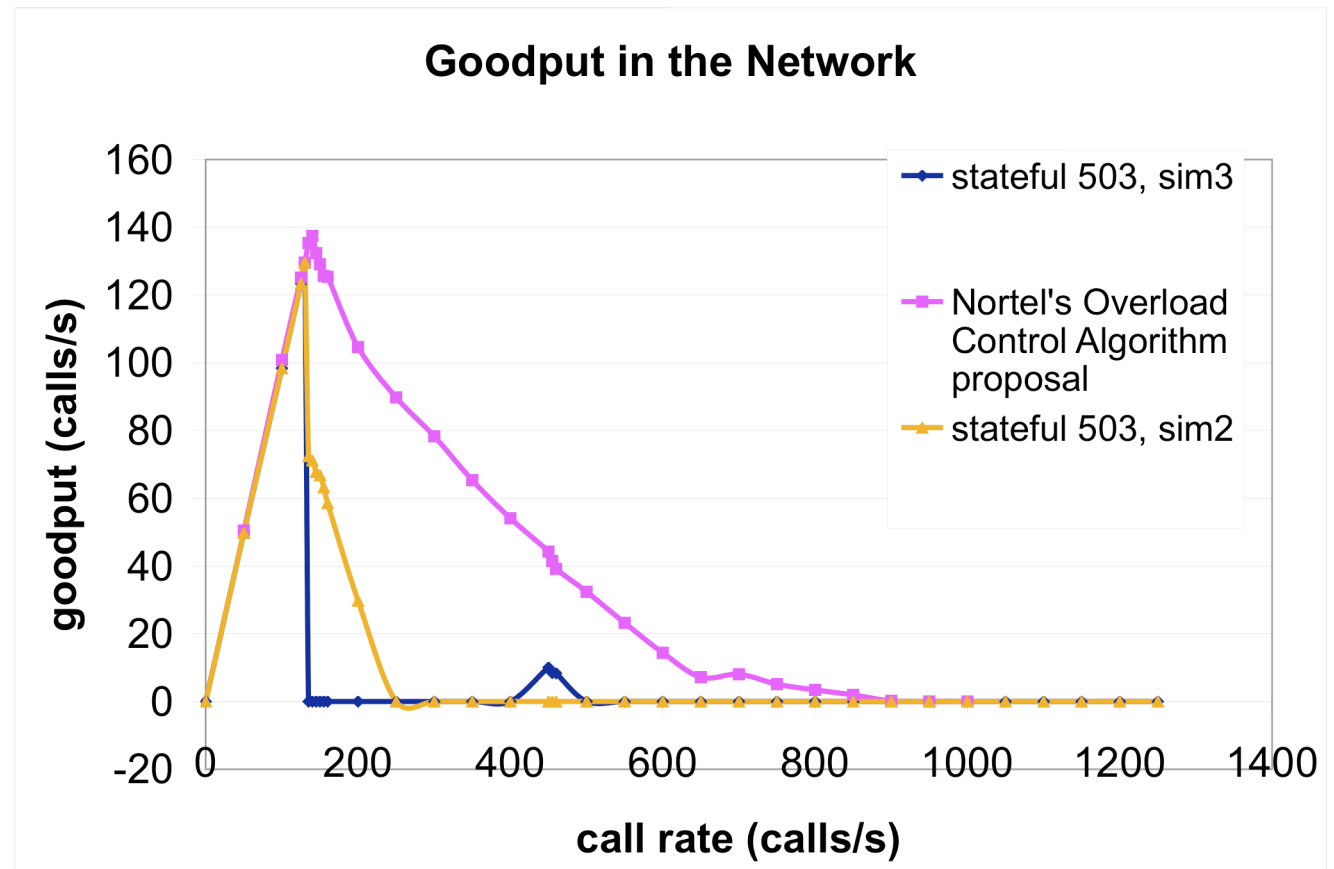
- 13:00–13:10 Administrativa
Magnus & Lars
- 13:10–13:30 State of the Area
Magnus & Lars
- 13:30–13:45 Updates to the IANA Port Allocation Procedures
Michelle Cotton
- 13:45–14:15 Structured Streams
Bryan Ford
- 14:15–14:45 An Accountability Framework for Use of Congested
Internet Resources
Bob Briscoe

IESG Advertisement

- the IESG is looking for additional scribes to take minutes during the telechats and face-to-face meetings
- goal: better load balancing among the team of scribes
- send email to iesg@ietf.org if you're interested, or talk to Magnus and me after the session

Congestion Control Help for “SIP Overload” DT

- networks of SIP proxies can get overloaded
- current mechanism in SIP spec can result in congestion collapse
- design team in process to design and simulate algorithms
- help needed from congestion control experts
- talk to ADs if this interests you



State of the Area & Stuff on the Horizon

Things Happening since IETF-69

- document progress: 11 documents approved by the IESG
20 documents published as RFCs
- not exactly a lot, but the WGs haven't been pub-requesting more
 - Lars's queue is pretty empty
 - Magnus's queue is larger but primarily WG/Author dependent
- TSV and INT got a liaison statement from ITU-T SG 13 on flow-state-aware forwarding
 - proposed liaison response posted to the list
 - consensus call is ongoing, please comment

State of the Area

- **IPS** and **RDDP** have concluded since IETF-69
 - **thank you** chairs, editors and participants
 - thinking about spinning up a “storage maintenance” WG
- several WGs are nearing the end of their chartered work
 - **IPPM** metrics composition and aggregation are left
 - **MIDCOM** done; process snags have delayed publication
 - **RSERPOOL** minor edits needed to the document set
 - **ROHC** header compression for IPsec is left
- this leaves us with BEHAVE, DCCP, FECFRAME, NFSv4, NSIS, PCN, RMT, TCPM and TSVWG

Stuff on the Horizon

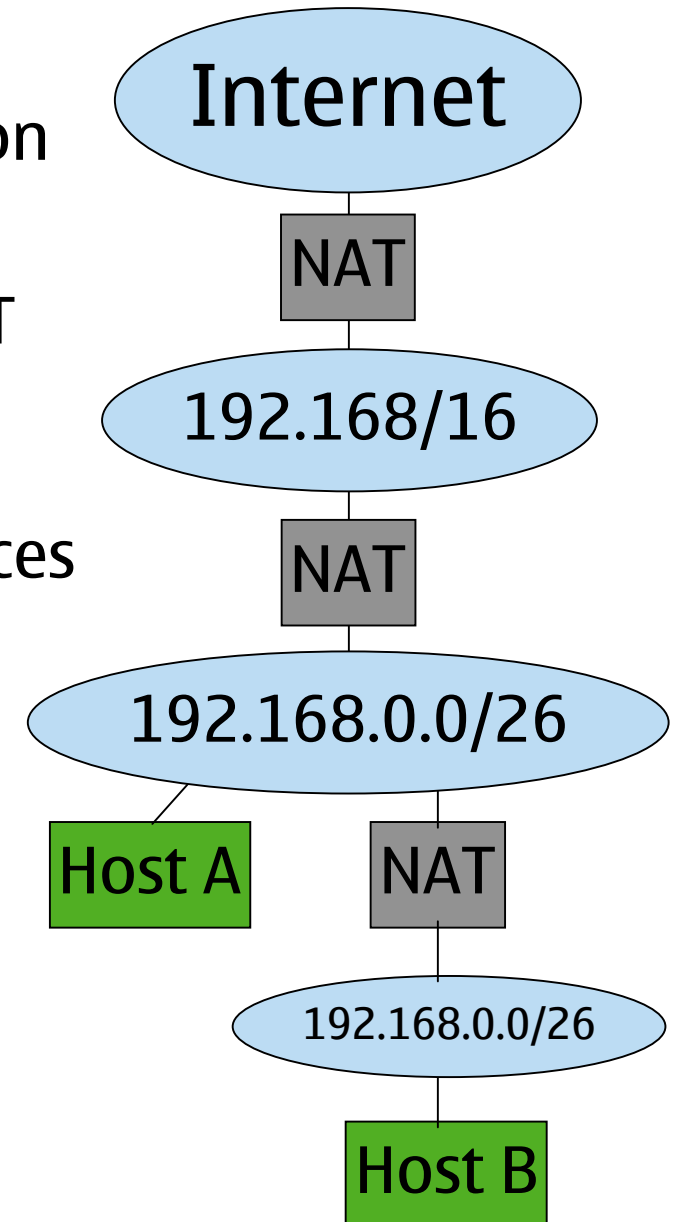
- the following is a subjective selection of topics that the ADs think the area could (should?) get involved in
- this doesn't mean that the area will get involved
- this doesn't mean that if you propose a BOF on any of these we'll automatically grant it
- all we're saying if you have an interest in one of these topics, let's talk

NAT/Firewall Traversal & Control

- still a huge issue
 - multi-level NAT deployments become common
 - several popular traversal solutions don't deal with this case
 - traversal mechanisms that do, are ugly (ICE/STUN/TURN)
- NAT/FW control (instead of traversal) would be better, but...
- no NAT/FW control protocol is seeing “enabled-by-default” deployment
 - NAT/FW vendor community won't implement if host vendors don't implement, and vice versa
- what incentives does a NAT/FW control solution need to offer for deployment on both hosts and middleboxes? or have we painted ourselves into a corner?
- IPv6 transition may offer a chance; IPv6 firewalls and host stacks are still somewhat malleable – if we had anything to offer, it might get deployed

Multi-Level NAT Implications

- multiple levels of NATs are becoming common
 - ISPs NAT their access network
 - home access modem/router is also a NAT
 - wireless access points NAT by default
- what happens with overlapping address spaces
 - failure to connect
 - NAT traversal solutions make traffic go where it isn't intended



Translation for IPv6-to-IPv4 Compatibility

- translation seeing renewed interest to allow IPv6-only hosts to work with the IPv4 Internet
- transparent translation is of great interest
 - need not touch application code
 - however, embedded address information is difficult
- requirements being discussed in V6OPS on Thursday
- eventual standardization may happen in TSV with strong participation from INT

Internet Heterogeneity

- the Internet is getting both faster and slower
 - multi-Gb/s links are commonplace
 - IP is being pushed into low-power networks and sensor environments (6LOWPAN, RL2N BOF Thursday)
- and its connectivity characteristics are changing
 - widespread wireless access
 - mesh and ad-hoc gaining momentum
 - creative L2 schemes create links that look very different
 - shim layers between L3 and L4 affect what the path looks like
- how do we design transport protocols to effectively and efficiently operate in such an Internet?

And More...

- other stuff exists on the horizon, too
- if you have an interest in some of these topics, let's talk