

# re-ECN congestion transparency bar BoF

reinserted explicit congestion notification  
ad hoc birds of a feather

30 Jul '09

IETF @ Stockholm

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# meeting goals

- start organising BoF for next IETF
  - find / create a w-g for specifying and experimenting with congestion transparency
  - based around [re-ECN](#)
- non-goal (sorry, see elsewhere)
  - describing re-ECN or its uses for initial understanding

# proposed agenda

- (10 mins) Note takers, Note Well, Meeting Goals, Agenda bashing
- (10 mins) Status report on re-ECN
  - implementations, related activities
- (10 mins) Problem Statement
- (10 mins) BoF Proposal
  - proposed work / charter
- (10 mins) People
  - volunteers, red team, suggested chairs, etc

# re-ECN

- makes path congestion transparent to network layer from transport layer
- allows network layer to ‘operate on’ congestion in a packet (one-way) network
  - operate on =
    - accountability
    - policing
    - DoS mitigation
    - traffic engineering
    - ...

# status of re-ECN

- BoF materials
  - draft problem statement, not BoF proposal
- protocols spec
- motivations, requirements, problem statements, issues
- known implementations
  - 1+ \* Linux
  - 0+ \* vendor
  - 2 \* ns2
- evaluation
  - commercial (GIIC, MIT CFP, modelling)
  - public policy (GIIC, analysis)
  - technical (security, function, uses)

# possible work / charter

- Problem Statement, Motivations, Requirements
- Base Protocol
  - Standards or Experimental track?
  - Separate draft on encoding choices (v4, v6, both, which header fields, encap)?
- Incremental Deployment
  - Proxy
  - Single Domain
  - orthogonal to classes
- Uses
  - Demo?
  - Transports (TCP, MPTCP, RTCP, LEDBAT, Relentless, PCN)
  - Accountability
  - QoS & interconnection
  - DoS mitigation
  - Traffic engineering
- Issues
  - Red team?

# modus operandi & people

- place: IETF, IRTF? existing w-g, new w-g?
- people?
  - problem statement, requirements
  - BoF proposal / charter
  - demo
  - suggestions for BoF chairs
- BoF name
- timing: Hiroshima BoF viable?
- mailing list re-ecn@ietf.org
  - <https://www1.ietf.org/mailman/listinfo/re-ecn>