PCN

Congestion and Pre-congestion Notification

IETF 69 – Chicago
Wednesday 2007-07-25

Administrivia (1)

- Chairs:
  - Scott Bradner <sob@harvard.edu>
  - Steven Blake <steven.blake@ericsson.com>
- Mailing list:
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  - http://www.ietf.org/mail-archive/web/pcn/index.html
- PCN homepage:
  - http://www.ietf.org/html.charters/pcn-charter.html
- Meeting materials:
  - https://datatracker.ietf.org/meeting/69/materials.html

Administrivia (2)

- Blue sheets
- Note takers
- Jabber scribe
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- Agenda bash

Agenda

- 10 min chairs — Administrivia
- 30 min P. Eardley — Pre-Congestion Notification Architecture
  draft-eardley-pcn-architecture-00
- 15 min G. Karagiannis — LC-PCN: The Load Control PCN Solution
  draft-westberg-pcn-load-control-00
- 30 min Kwok-Ho Chan — Pre-Congestion Notification Encoding Comparison
  draft-chan-pcn-encoding-comparison-00
- 10 min Anna Charny — Pre-Congestion Notification Using Single Marking for Admission and Termination
  draft-charny-pcn-single-marking-02
- 10 min Anna Charny — Performance Evaluation fo CL-PHB Admission and Termination Algorithms
  draft-zhang-pcn-performance-evaluation-02
- 10 min Kwok-Ho Chan — Three State PCN Marking
  draft-babiarz-pcn-3sm-00
- 10 min Jozef Babiarz — Simulations Results for 3sM
  draft-babiarz-pcn-explicit-marking-01

Goals and Milestones (1)

- Nov 2007: Submit "Flow Admission and Termination Architecture within a Diffserv Domain” (Informational)
- Nov 2007: Submit “Survey of Encoding and Transport Choices of (Pre-)Congestion Information within a Diffserv Domain” (Informational)
- Mar 2008: Submit “(Pre-)Congestion Detection within a Diffserv Domain” (Proposed)
- Mar 2008: Submit “Requirements for Signaling of (Pre-) Congestion Information from Egress to Ingress in a Diffserv Domain” (Informational)
- Jul 2008: Submit “Encoding and Transport of (Pre-)Congestion Information from within a Diffserv Domain to the Egress” (Proposed)

Goals and Milestones (2)

- Nov 2008: Submit “Encoding and Transport of (Pre-) Congestion Information from the Domain Egress to the Ingress” (Proposed)
- Jul 2008: Submit “Suggested Flow Admission and Termination Boundary Mechanisms” (Informational)

Questions to ask

- What assumptions are being made about pre-congestion detection mechanisms and marking states in the interior routers?
- What assumptions are being made about how traffic at an egress is associated with an ingress->egress aggregate?
- What assumptions are being made about the semantics of the pre-congestion information sent from egress->ingress?
- What assumptions (if any) are being made about the flow-state setup mechanisms at the ingress? At the egress?
- What are the configurable knobs in the system? How consistently do they need to be configured across routers? How sensitive is the PCN behaviour to the values of these knobs?
- How is ECMP use by the interior routers accommodated?