PCN

Congestion and Pre-congestion Notification

IETF 72 - Dublin
Thursday 2008-07-31
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Administrivia (1)

• Chairs:
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  - Steven Blake   <slblake@petri-meat.com>

• Mailing list:
  - <pcn@ietf.org>

• PCN homepage:

• Meeting materials:
  - https://datatracker.ietf.org/meeting/72/materials.html
Administrivia (2)

• Blue sheets
• Note takers
• Jabber scribe
  - pcn@jabber.ietf.org
• Agenda bash
Agenda

- 10 min  chairs  Administrivia
- 15 min  chairs  Discuss ITU-T Liaison Statement
- 50 min  Eardley  Pre-Congestion Notification Architecture
  draft-eardley-pcn-architecture-04
  Marking Behavior of PCN Nodes
  draft-eardley-pcn-marking-behavior-01
- 30 min  Moncaster  Baseline Encoding for PCN
  draft-moncaster-pcn-baseline-encoding-02
  3 State Encoding for PCN
  draft-moncaster-pcn-3-state-encoding-00
  Multiple PCN Experiments
- 20 min  Babiarz  PCN Encoding for Packet-Specific Dual Marking
  draft-menth-pcn-psdm-encoding-00
  End-to-End Extension for PCN Encoding
  draft-menth-pcn-e2e-encoding-00
- 10 min  Briscoe  Layered Encapsulation of Congestion Notification
  draft-briscoe-tsvwg-ecn-tunnel-01
- 15 min  Mekkes  LC-PCN
  draft-westberg-pcn-load-control-04
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)

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

Behind schedule
Consensus calls since IETF 71 (1)

1. As an initial standardization activity, should the PCN wg produce a standards-track PCN scheme that requires only two encoding states? (Note: this question does not presume that the solution is Single Marking).

   YES

2. Presuming consensus in favor of Q1, should the PCN wg produce one or more experimental-track extensions to the standards-track PCN scheme that require another encoding state (for a total of three encoding states)?

   YES

3. Does the PCN working group have enough information to make a decision about the way forward for the standards-track PCN scheme?

   YES
Consensus calls since IETF 71 (2)

4. Should the standards-track PCN scheme require (as a MUST implement feature) that interior PCN routers support Excess-Rate marking, according to the particular method of handling already marked packets and drops described in Anna Charny's presentation?

YES

5. Should the standards-track PCN scheme require (as a MUST implement feature) that interior PCN routers support Threshold marking (in addition to Excess-Rate marking), according to the particular method described in Philip Eardley's presentation on Tuesday?

YES

6. If presented with sufficient evidence in a timely fashion, would the PCN wg entertain the option of modifying the interior router Excess-Rate marking behavior for the standards-track PCN scheme (as described in question 4)?

NO CONSENSUS
ITU-T Liaison on Q.PCNApp

• [https://datatracker.ietf.org/liaison/461/](https://datatracker.ietf.org/liaison/461/)
• Who has read it?
• Any comments?
• Response back to ITU-T requested by 2008-09-01.