Report from IETF transport area meeting

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Presentation given

➢ Summarized the 802.3Qau project

  ➢ Presentation is at:
    http://www.ieee802.org/1/files/public/docs2006/au-thaler-802-1CNforIETF-061106.pdf

➢ Pursuant to our objective:
The working group will coordinate with the Transport Area in the IETF on interactions with congestion-controlled Internet traffic, such as TCP, SCTP or DCCP.

Feedback

➢ Concern about the effect of queue build up between layer 4 and layer 2 at the source due to layer 2 rate limiter

  ➢ Looks like RTT is growing

  ➢ Less of a problem when layers 4 through 2 are closely linked as in full offload

➢ Concern over how routers interwork with this

➢ Discovery concerns

➢ Prefer forward congestion notification

  ➢ But this means longer loop delay

➢ Some ideas

  ➢ Detecting congestion before buffer build-up in the switch

    ➢ E.g. if priority has a target of 20% of link bandwidth but allowed to have as much as 25%, then track usage for the sampling period and indicated congestion based on the queue size that would have built up with 20% transmit rate.