QoS/FC Study : Concerns

Mick Seaman
3Com Corporation

Norm Finn
Cisco Systems

Paul Bottorff
Nortel Networks, Inc.

Summary of concerns :
Apparent lack of awareness of ...

- Current and completed IETF work

- Completed 802.1p work

- Behavior of bridges and the 802.3x specification

- Networked application behaviors

Does not appear consistent with ...

- Bringing forward a PAR within the next few 802 plenary cycles

- Broad market potential

- Advertising the proposed work as "QoS"

Relationship and understanding of IETF work ?

- Integrated Services Specification (complete)
  - ISSLL mapping to 802.1p

- Differentiated Services Specification (DiffServ)
  - architecture and IP behaviors nearing completion
  - mapping to 802.1p about to start

- Extensive experience of congestion control
  - WFQ, RED, CBQ etc.

Understanding of completed 802.1p work ?

- Significant standardization effort just complete
  - broad industry support
  - 802.1D Annex H guidelines for use

- Any FUD will diminish value

Understanding of bridge's use of 802.3x ?

- Reliance on simulation of only one of a number of behaviors now permitted by the 802.1D Std.

- Understanding those behaviors should precede proposals for changes to standard
  - no changes may be required ?
  - new non-normative recommendations in existing standards may be appropriate ?
  - how can the best proposals be made otherwise ?

Understanding application behavior ?

- Successful voice and video applications running over the Internet are sensitive and respond to network conditions
  - absence of TCP does not make these "uncontrolled"
  - successful applications in the future will be ones that work

Do we know what problem we are solving ?

- If extensive simulation is still to be performed surely the time to bring forth a standards proposal is when that simulation has been completed and can be judge on its merits ?
  - IEEE 802 is not a research organization, it is where the results of research and experience are brought together