# IEEE 802.3 Congestion Management Study Group May Interim Report

Portland, OR 11-14 July, 2004

### May Interim

#### 1½ days – 7 Presentations

- The Structure for Congestion Management
  - Bob Grow: Intel
  - Observations, definitions & structure suggestions
- Congestion Management Problem Statement
  - Gopal Hegde: Intel, Jeff Lynch: IBM
  - Problem statement, Traffic types
- Congestion Management Managing the Layer Stack
  - Jonathan Thatcher: Independent
  - Location of work: 802.3 or 802.1
- A Survey of Standards Efforts on Traffic and Congestion Management in Ethernet Networks
  - David Martin: Nortel Networks
- Congestion Management in a Bladed System
  - Shashank Merchant: Nokia
- Preemption Simulations
  - Eric Lynskey: UNH-IOL
- Proposal for 802.3 Enhancements for Congestion Management
  - Manoj Wadekar: Intel, Gary McAlpine: Intel, Tanmay Gupta: Intel
  - Problem description and simulation results

## Task Force Objectives (Straw polls – non-binding)

- Provide a mechanism for rate limiting
  - 22 in favor / 3 against

- Support for full duplex
  - 23 in favor / 1 against

## Study Group Objectives 1/2 (Straw polls – non-binding)

- Evaluate 802.3x with finer granularity
  - 19 in favor / 1 against
- Address latency, latency variation and frame loss
  - 21 in favor / 1 against
- Evaluate rate limiting
  - □ Feed forward/back
  - □ Static/dynamic
    - 21 in favor / 3 against
- Consider preemption
  - 5 in favor / 9 against
- No changes to PHYs
  - 19 in favor / 1 against

## Study Group Objectives 2/2 (Straw polls – non-binding)

- This is not an end-to-end flow control
  - 21 in favor / 1 against
- No new methods for traffic classification
  - 16 in favor / 5 against
- No reordering of packets within a class
  - 21 in favor / 1 against
- Be consistent with IEEE 802.3 and IEEE 802.1 layer architecture
  - 21 in favor / 0 against
- Be consistent with slow protocols (e.g. OAM)
  - 15 in favor / 0 against



#### Question

- Do you feel the study group should extend until November?
  - Y:24
  - N:2
  - 30 in attendance



#### Plans for the Week

- Hear follow-on presentations
- Continue on objectives
- 5 Criteria & PAR (?)