802.3 Trunking Study Group

March 11, 1998

Irvine, CA

Trunking Agenda

- Introductions
- E-mail Reflector and Web Site
- Report from Bellevue meeting
- Discussion of PAR and 5 Criteria
- Presentations
- Discussion of objectives
- Plans for next meeting
- Minutes from Bellevue meeting

E-mail Reflector

- The IEEE has set up a reflector for this study group:

  stds-802-3-trunking@ieee.org

- To be added to the reflector, send an E-mail containing:

  subscribe stds-802-3-trunking <your email address>

- to:

  majordomo@majordomo.ieee.org

- There is also a web site for our use at:

  http://grouper.ieee.org/groups/802/3/trunk_study/

Trunking Study Group
Bellevue Meeting

- TSG met on Feb 4, 1998 between 802.3 and 802.1 Interim meetings

- ~130 people in attendance

- 8 Presentations (on web site)

- Drafted PAR and 5 Criteria (on web site)

- Discussion of Objectives
  - 2 objectives voted: Link Aggregation Group consists of **Full Duplex** links of the **Same Speed**.

Bellevue Presentations (2/4/98)

- Floyd Backes (3Com)   Definitions
- Mick Seaman (3Com)   Link vs LAN Aggregation
- Steve Adams (Intel)   Trunking Rules/Goals
- Anil Rijsinghani (DEC)   Scope/Model for Trunking
- Norm Finn (Cisco)   Auto Config Problem Statement
- Paul Congdon (HP)   Load Distribution Algorithm
- Ariel Hendel (Sun)   Goals
- Geoff Thompson (Bay)   Scope / Architecture

PAR -- Title and Purpose

- Title

  Aggregation of Multiple Link Segments

- Purpose

  To increase link availability and bandwidth between DTEs by specifying the necessary mechanisms for parallel link segment aggregation.

PAR -- Scope

- Scope

    Specify a DTE to DTE logical link which consists of n parallel instances of an 802.3 point-to-point link segment. The logical link will support existing 802.3 MAC Clients.

    Define the necessary management objects and protocols to support link aggregation, including identification, addition and deletion of link segments to and from the logical link.

Presentations

- Paul Bottorff (Bay)   Link Aggregation Ref. Model
- Paul Bottorff (Bay)   Addressing Requirements
- Paul Congdon (HP)   Objectives
- Norm Finn (Cisco)   Requirements
- Norm Finn (Cisco)   LA Setup and Maintenance
- Mick Seaman (3Com)   Configuration Objectives
- Joris Wils (3Com)   Verification Prot. Requirements
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Objectives

- LA Groups consist of Full Duplex link segments.
- LA Groups consist of link segments operating at the same speed.
- A physical link segment is part of at most one active LA Group at any one time.
- Frame collection at the receiver will not require reassembly or reordering of frames

Objectives (cont.)

- Frame distribution will prevent duplication of frames, and will transmit associated frames that require ordering to be maintained on the same physical link.

- Each instance of a LA sublayer will be addressed with a single individual MAC address.

- The standard will define a protocol for configuration, initialization, verification, and maintenance of LA Groups.