STA T10 Update

Nov. 11, 2004

11/11/2004

4
Plugfest Update - Overview

- Plugfest Nov. 1-5, 2004
  - 22 companies
  - >100 attendees
  - Largest plugfest held to date at UNH
  - Very pleased with results
  - Feedback for T10
    - 4 wide external connector (wide port) on subsystems specifications need to be clarified in SAS 1.1
    - Icons (or some other method) needed to identify device connection types (end device, subtractive routing port, table routing port, routing table entries used)

- Next plugfest late April ’05?
  - Looking for feedback

- UNH SAS consortium
  - Provides additional testing capability beyond plugfest
    - Especially PHY area for backplanes, etc
6 Gb/sec update

• Presentation by HP
  – SAS/SATA 6Gb will probably be linked with PCI express Gen 2 (’06-’07 timeframe)
  – Two alternatives:
    • Disk drive make the transition to 6Gb at same time or:
    • Add multiplexing streams to expanders so disks can stay at 3Gb until sequential transfer rates necessitate change
  – Is Phy power management needed?
  – How to make sure SATA and SAS Phys remain compatible

• STA actions
  – STA board will send a letter to PCI SIG to encourage next step to be 6.25 Gb./sec instead of 5.0Gb/sec
  – Will develop position statement for T10 on 6Gb and other SAS 2 parameters
  – Develop a framework to ensure compatibility of SATA/SAS phys