

1394 Printing Meeting Minutes - December 6, 1996 San Jose, CA (Adobe)

**Attendance list:** ftp.lexmark.com/pub/ieee/1394/961205-1394-attendance-list.pdf or 961205-1394-attendance-list.ps

### **Meeting**

The inaugural meeting to discuss 1394 printing protocol was conducted at Adobe, San Jose, CA on December 6, 1996. Don Wright chaired this initial meeting and his charts are on ftp.lexmark.com/pub/ieee/1394/1394prt1.pdf

Reviewed "Goals of this Meeting" chart - no discussion.

Reviewed Agenda.

Changes:

- ◆ Mike Teener (1394 Overview) and Bob Barnitt (Directions on 1394) were not available at start of meeting. Steve Timm (Directions on 1394) presented first.

### **Presentations**

- ◆ All presentations that are available electronically will be uploaded to ftp.lexmark.com/pub/ieee/1394, file names are listed after each presentation.

#### 1394 Overview

- ◆ Mike Teener's presentation will be available eventually on www.fireflyinc.com
  - The whole process of Self Identification is completed in 80 microseconds (worst case).
  - Temporary e-mail reflector for printing
    - Send e-mail to listserv@firefly.com or majordomo@fireflyinc.com with one line in note (subscribe 1394-prt-img). Subscribe address will be taken from "from" address.

#### Directions on 1394

- ◆ Steve Timm's presentation is available in soft copy form (ms1394.pdf).
  - The 1394 DDK's that will shortly be made available will only work on the Windows 97 beta.
- ◆ Bob Barnitt (Marketing Manager - Intel Connected PC Division)
  - Presentation available only in hard copy form.
  - 1394 will not replace USB on back of computer
  - 1394A Spec (S100, 200 400) and 1394B Spec (S800, 1600, .....). Plans are that 1394B would be backward compatible.
  - Outlook is that when 1394 is standard on several systems, the speed will be in the Gb/sec speed.
  - 1394 is beneficial when people want to plug two printers into their PC (no switch boxes). Would require a printer to be a hub.
- ◆ Eric Anderson (Apple)
  - Presentation available only in hard copy form.
  - Apple would encourage printers (other than extremely low cost) to have at least two 1394 ports.

#### Hardware Support for 1394

- ◆ Danny Mitchell (TI)

- Presentation available in soft copy form (printer.pdf)
- ◆ James Snider (Philips)
  - Presentation available in soft copy form (1394\_pnt.pdf)
  - Data sheets available only in hard copy form
- ◆ Bob Plummer (Adaptec)
  - Presentation available only in hard copy form

#### 1394 - Home Network

- ◆ Joel DiGirolamo (Lexmark)
  - Presentation available in soft copy form (icceha.pdf).

#### Potential Print Directions

- ◆ Mike Tenner (FujiFilm proposal)
  - Presentation available only in hard copy form.
  - Open HCI spec. will eventually be available on [www.fireflyinc.com](http://www.fireflyinc.com).
- ◆ Greg LeClair (Epson proposal)
  - Presentation available in soft copy form (pres1206.pdf) (Presentation also available on <http://www.ercipd.com/pp1394>).
  - Proposal available in soft copy form (prop1206.pdf) (Proposal also available on <http://www.ercipd.com/pp1394>).
  - Might want printing architecture to be push/pull configurable. Could handle small and large memory configurations on host.
- ◆ Peter Johansson (SBP-2 proposal)
  - Presentation available in soft copy form (prnt1394.pdf).
  - Working draft of proposal available in soft copy form (sbp2rolg.pdf)

#### Discussion on future directions for printing

- ◆ Define protocol layer (data delivery mechanism)
  - Scalable (simple and complex). May have to be separate modes.
- ◆ Define format of data
  - Maybe use standard digital camera format as one proposal to make it simple for digital cameras.
  - Would need command to say what to do with data once it is received.
- ◆ How have other groups within 1394 solved similar situations
  - One group did it in a semi-closed environment and in a hurry. Currently engaged in modifying proposal.
  - Another group did it open with only a standards approach (no simultaneous implementation).
  - Best approach maybe mixture of both (in open environment and simultaneous implementation).
- ◆ Do printers need to do anything unique or can they ride off of what other groups will define?
  - If unique then special drivers need to be loaded.
  - Desired conclusion is No but needs to be looked at in more detail. SBP-2 looks good.
- ◆ What group should the printer work be done under?
  - 1394 TA group is good
    - Ad hoc
    - No requirement that these meetings occur in conjunction with TA meetings. Associate with Printer Working Group sessions.
    - Physical meetings and e-mail discussion

- Develop charter and present to TA. Next 1394 TA meeting is Jan. 13 through 16 in Houston - Compaq. Send e-mail to James Snider with proposed schedule (completed charter date, etc.). James will look at and determine if OK.
- Printer Working Group
  - Bring up as issue at January 8, 9, and 10 PWG meeting in ABQ, NM to see if interest is there to form group.
  - Work on charter.
  - Select chairperson.
- ◆ Short term plan
  - Write a charter (Greg LeClair will write first draft by 12/25/96)
  - "Rope" a leader at Jan. PWG meeting.
  - Present charter/plan/update at 1394 TA mtg.
  - Begin work