1394 PWG Meeting
July 14, 2000

1. Meeting Attendees

The list of attendees included:

Olav Andrade	Apple
Shigeru Ueda	Canon
Lee Farrell	Canon Information Systems
Greg LeClair (Chair)	Epson
Brian Batchelder	Hewlett Packard
Chuck Rice	Hewlett Packard
Jerry Thrasher	Lexmark
Don Wright	Lexmark
Satoshi Fujitani	Ricoh

2. Administrivia

Don Wright provided the details for the next PWG meeting:

- September 11-15
- Chicago Marriott O'Hare
- 8535 W. Higgins Rd
- Chicago IL 60631
- Phone: (773)-693-4444
- Rate: $189 per night, $55 per day meeting fee

He also referenced the 2000 schedule for future PWG meetings:

- Oct 23-27   Boston
- Dec 4-8   San Diego

3. Future Schedule

Don presented a proposed schedule for 2001 PWG meetings (more details are available on the PWG website):

- January 22-26   Hawaii
- March 5-9   Florida
- April 23-27   Seattle, WA/Portland, OR
- June 4-8   Toronto
- June 30-July 3   Paris/London/Barcelona/Amsterdam
- September 10-14   San Antonio/Austin/Dallas, TX
- October 29-November 2   Phoenix, AZ
- December 17-21   Los Angeles, CA

4. Agenda

Greg LeClair led the meeting and provided the agenda topics:

- Administrative Issues – 1394 PWG Chair position
- P1394.3 WG Status
- Printing Profile Discussion

5. Previous Minutes

There was no review of the previous Minutes.

6. Action Item Review

The group reviewed each of the Action Items from the previous meeting and assigned a status to each of them:

1. Greg LeClair will propose a mapping from the API entries to transport operation and the API itself. ABANDONED
2. Greg LeClair – Update OUI usage document with editorial changes from meeting discussion. Re-post it to the PWG1394 web site for comment and discussion. OPEN
3. Brian Batchelder will issue a "call for proposal(s)" on two work items: DONE
   - Solving "the multi-instance Initiator problem"
   - 1394.3 Printing Profiles

7. 1394 PWG Chair Position

Greg LeClair volunteered to continue as coordinator and motivator for the group, but he indicated that he is unable to commit to travel for any meetings outside of California.

8. P1394.3 WG Status

The P1394.3 Ballot Pool has been formed. Greg expects to start the balloting process in a week or two.

9. Printing Profile – Discussion and Possible Scope

Brian Batchelder is convinced that establishing a Printing Profile for 1394.4 is very necessary. He thinks it would be desirable to ensure *some* level of guaranteed printing between 1394 devices and printers.

Brian referenced his rough draft Printer Profile document, and reviewed the table of contents.

Greg mentioned that at one time, there was a concern for supporting legacy print streams. He was curious if the Profile document should address this issue.

During the discussion/brainstorming about the Profile, the following ideas were raised:

- common data format – should we address this, or just use another group's recommendation (like UPnP)?
- specifying various profiles for different protocols over 1394:
  - ∗ DPP
  - ∗ PPDT
  - ∗ AV/C
  - ∗ etc.
- named services (even "vendor-specific")

Brian thinks that the group should avoid the effort of trying to define a common data format from scratch. He suggests that we should just enable the UPnP services and/or the endorsed data format(s) over PPDT. He is concerned that unless this group specifies a common command set for printing, devices will not implement it.

The question was raised about whether there will be any intellectual property restrictions on using UPnP-defined data format(s)—and when they might be made "public." This will need to be confirmed.

Microsoft has made it clear that it plans to use IP (as in TCP/IP) for printing. Should the group just concentrate on ensuring that printing via IP over 1394 works properly? Or is IP over 1394 too "heavy" for some printers that will be using 1394?

Possible scope topics for the Printing Profile:

- Minimal common data format (MDF) – yes
- UPnP (or general) printing services – no
- Is MDF defined or referenced? – not yet
- Transport stack compliance – yes
- Minimal common status service – yes
- Vendor unique pass-through services – yes
- "How to define a service" – yes

It was noted that if the Profile—whatever it contains—is not completed in a reasonable timeframe, then it would not be useful. For example, three years would be too late. Brian suggested a goal of no more than one year. Chuck believes that some items need to be defined sooner.

There was a general discussion about whether the minimal data format characteristics/parameters should be placed in Configuration ROM or provided via a named service.

The group reviewed the above topics and agreed on the following priorities (and order of development):

1. "How to define a service"
2. Vendor unique pass-through services
3. Minimal common data format (MDF)
4. Minimal common status service
5. Transport stack compliance

ACTION: Greg LeClair will issue a call for proposal(s) on the Printer Profile topic items.

ACTION: Don Wright will submit a proposed set of requirements and characteristics for a raster-based "minimum data format."

ACTION: Brian Batchelder will issue an e-mail defining "Scope and Purpose" for the Printing Profile.

10. Progress Logistics – Teleconferences

Assuming we accept the above topics for future activity, we should also determine the process for achieving them. Should we have face-to-face meetings, or are e-mail communications sufficient?

The group agreed to use e-mail and biweekly teleconferences as the major communication tools for the near-term, with face-to-face meetings held only if/when necessary. The group tentatively plans to meet for an off-cycle meeting in September and at the PWG session in San Diego in December.

It was suggested that an on-line chat/conferencing tool could be used for these communications. [It would also help for documentation of Minutes.]

The next teleconference will be held on July 31 at 4:00pm Pacific Time.

ACTION: Greg LeClair will investigate and recommend a mechanism for on-line communication.

11. Goals and Milestones

The group agreed that the Profile should be submitted for acceptance as a PWG Standard. The process and timeline for establishing a PWG standard needs to be examined.

The group determined that it would be desirable to have the Profile ready when IEEE 1394.3 is approved— estimated between December 2000 through March 2001. It was felt that a PWG Proposed Standard (prior to interoperability testing) could be achieved by December.

12.   "How to Define a Service on 1394.3"

The group started discussing ideas on identifying the necessary items for defining services. The following list was generated:

- Advertised service
  * Add to Service_ID list in PPDT Feature directory
  * Feature directory is pointed to from the Instance directory and Unit directory
- Additional description
  * Feature directory (not PPDT)
  * SpecID and version points to document that describes Feature directory (document may be private)
  * [reference IEEE 1212r Section 7.6.2]

ACTION: Brian Batchelder will write up the process for defining a service on 1394.3 and publish it prior to the next teleconference.

Meeting adjourned.

13. Open Action Item Summary

=================   Previous Action Items   =================

1. Greg LeClair – Update OUI usage document with editorial changes from meeting discussion. Re-post it to the PWG1394 web site for comment and discussion.

=================   New Action Items   =================

2. Greg LeClair will issue a call for proposal(s) on the Printer Profile topic items.
3. Don Wright will submit a proposed set of requirements and characteristics for a raster-based "minimum data format."
4. Brian Batchelder will issue an e-mail that proposes a "Scope and Purpose" for the Printing Profile.
5. Greg LeClair will investigate and recommend a mechanism for on-line communication.
6. Brian Batchelder will write up the process for defining a service on 1394.3 and publish it prior to the next teleconference.