1394PWG
Minutes
9 November 1998, Tucson, AZ

Attendance:
Greg LeClair   Epson
Alan Berkema   HP
John Fuller   Microsoft
Peter Johanson   Congruent Software
Rich Escott   HP
Brian Batchelder HP
Robert Morford   SIS Microsystems
Jerry Thrasher   Lexmark
Laurie Lasslo   HP
Takashi Isoda   Canon
Akihiro Shimura Canon
Osamu Hirata   Canon
Lee Farrell   Canon
Larry Stein   Warp Nine Engineering
Ben Chun   Samsung Electronics
Mike Fenelon   Microsoft
Greg Shue   HP
Hitoshi Sekine   Microsoft
Fumio Nagasaka Epson

1. 1394 Node Model - Alan Berkema
2. 1394 PWG Service Discovery - Greg LeClair
3. Profile / ConfigROM issue discussion. - Berkema / LeClair

1. 1394 Node Model - Alan Berkema
Missed this presentation.
Download from pwg.org

2. 1394 PWG Service Discovery - Greg LeClair
Greg's handout.

Issues:
A- Does this proposal fit our needs?
B- What, if anything, is necessary that's missing?
C- Do service attributes need additional space
D- Are they required for initial service discovery
E- Consider directory for extensibility
F- Vote to adopt as part of 1394PWG Profile?

Peter offered the following definitions for review:
        Function (Instance) = Unit Directory with LUN0
        Service = Control protocol for independently operable component of function.
        Connection = Set of queue(s) that affords access to a service.
        Queue = Ordered set of ORBs that does not block with respect to other queues

3- Multiplexing -- Takashi Isoda – Canon
Get copy of presentation
How to multiplex multiple logins from the same Initiator to the same service?

Two proposed solutions:
1- Channel multiplex on single login
2- Multiple logins with plural LUNs for the same service

Takashi-san wanted to confirm the direction that the 1394PWG is going. The approach is closer to proposal #1. Applying the definitions proposed earlier by Peter, we can define a new queue definition:
Queue 0: Command Queue for a given LUN. The command queue will handle Connect/disconnect
          requests for a requested service.

4- "A Method for Encoding a New Parameter" -- Akihiro Shimura, Canon
Discussion concerning the necessity to have a parameter(s) that indicates the maximum buffer size of "old" data that the target will hold in order to maintain data after a reset.

5- Review of 1394PWG issues:
Get this from Greg (issues.html)

Hybrid B:
          Service discovery via PWG commands, not ConfigROM
                    Connect (Service_ID)
                    Disconnect (Connect_ID)
Get Greg's notes on the bi-directional queue resolution.

Brian Batchelder made the following motion:
          "That we accept Peter's definitions as part of the Profile specification."
Seconded by Greg Shue
Yes: Unanimous

Alan Berkema will generate a paper showing the revised Connection algorithm and how it will fit into the Profile specification.

Require Initiator to maintain buffer integrity across bus resets?
Peter's proposal:
          "ORBs are uniquely identified by the sequence number field. If, subsequent to a bus reset, an
          initiator reconnects and re-queues an ORB with the same sequence number value as an ORB
          active prior to the bus reset, then the initiator shall guarantee the following:
                    -    the values of the direction bit and the data size, command, queue and command
                         dependent fields shall be unchanged, and
                    -    the data present in the buffer (if any) referenced by data descriptor shall be
                         unchanged.
          Note that the ORB or data buffer or both may be at different addresses and that the speed and
          maximum payload characteristics may have changed as a result of the reconnection."

Moved and passed by unanimous vote.

A motion is made by Peter to:
          "Remove MAXI2T from the current specification."
Seconded by Greg Shue
Per discussion there appears to be no compelling reason to keep it.
Moved and passed by unanimous vote.

A motion is made by Peter to:
          "Remove MAXT2I from the current specification."
Seconded by Greg Shue
Per discussion there appears to be no compelling reason to keep it.
Moved and passed by unanimous vote.

Nagasaka-san commented that queue 0 should have a higher priority than other queues. Since there is no concept of priority in the spec, we may need to address this. Discussion ensued…..
It was determined that there is no reason to do anything for this.

Vote was taken to have 1 or 2 meeting days per PWG session.
The vote was 14 to 2 for a 2 day meeting.

1212 issues: Peter
How to define function classes. The suggestion is to use Keywords that best describe the product or function. The 1394PWG may have some recommended keywords to use which describe common devices.

Larry Stein announced that the IEEE 1284.3 standard has completed balloting and was approved by a vote of 25 to 1, with 5 abstentions. This standard should be released at the end of Q1'99.

Larry- put action items from last meeting here and see if they have been addressed.

Meeting adjourned at 4:54.