

IEEE P1394b
Draft Page Turner Review
&
Standards Closure Action Team (SCAT)
December 8th, 9th, 10th, 1999
Scott's Valley, California, Zayante, Inc.

08 August 1999

CHAIR: *David Wooten*
SECRETARY: *Steve Bard*
EDITOR: *Eric Hannah*

IEEE P1394b Task Group Chairs: **Copperheads:** *Max Bassler*, **PHY/Link:** *Sean Killeen/Tony Foster*;
Upstarts: *Colin Whitby-Strevens*; **Simulations:** *Jerry Hauck*; **UTP:** *Colin Whitby-Strevens*; **B-Low Power:**
Steve Bard; **Accelerations:** *Mike Teener/Alistair Coles/Colin Whitby-Strevens*; **B-Port:** *Alistair Coles/Mike*
Teener/Colin Whitby-Strevens

SCAT COUNTDOWN:

Beginning of Meeting: 1 - OPEN; 2 - WIP; 1 - AIP; 50 - DONE; 11 - CLOSED; 65 - total database entries.

End of Meeting: ___ - OPEN; ___ - WIP; ___ - AIP; ___ - DONE; ___ - CLOSED; ___ - total database entries.

Those in attendance: David Wooten (Compaq), Victoria Teng (NEC), Jerry Hauck (Zayante), Michael Teener (Zayante), Steve Bard (Intel), Colin Whitby-Strevens (Zayante), Eric Hannah (Intel), Jim Skidmore (TI), Dave KJohnson (TI), Burke Henehan (TI); Yoshihide Komatsu (Matsushita)

Action Item Review

New Action Items From This Meeting:

Action Items carried from Previous Meetings:

AI#1: Mike Teener will write informative text for section 3.3 that will explain where in the draft each of the boxes in figure 3.1 is specified. [STATUS: 10/28/99 - Mike has not yet completed this task. His plans are to discuss the task with Eric and have it completed and in the draft prior to the editorial page turner on December 8th.]

AI#2: An Action Item to the Editor: Change all occurrences of lower case "l" in "Legacy" to an upper case "L" (like in clause 4.2.2); [STATUS: 10/28/99 - Not yet Complete]

AI#3: GROUP AR: Upon Reviewing Chapter 13 (PHY/Link Chapter) The group is to make certain the link shall properly tag the end of a packet that marks the end of a sub-action.

AGENDA ITEMS CAPTURED FROM E-MAIL:

1) SCAT #57 - Colin Whitby-Strevens

2) SCAT #43 - Jerry Hauck → Is this "Y-DONE"?

Terms for the unaware reader:

PIL Integrated PHY/Link silicon device

FOP Fan Out PHY

Legacy link a link specifically targeted for use in 1394-1995 or 1394a environments (e.g. it does not contain any 1394b optimizations)

Meeting Notes:

Wednesday, December 8, 1999

There are no uses or references to CSR space in the draft specification, therefore, clauses 1.5.9, 1.5.10, and 1.5.11 are candidates for removal. It was decided, however, to leave them in the draft and remote them based upon a ballot comment. If, however, there is no ballot comment to remove them, they will remain.

There are 42 missing references. After briefly stating a few of them, Jerry was in favor of simply "stipulating" that there are missing references. Eric will make use of "software tools" to extract from the draft spec the included references and include them in clause 2.0

Definitions and abbreviations

Much time spent in examining the correctness and completeness of the technical glossary <whew!>.

In examining the definition of active port: Is the PIL/FOP interface an active port? Since it CANNOT do ALL of the items listed in the definition for an active port, the PIL/FOP interface is NOT an active port. By the way, this resolves a previous issue with a requirement that standby be available only on a node with a single active port (i.e. this allows one of the OTHER ports on a FOP to be placed in standby - providing it is the only active port).

Section 4 - Summary Description

This is an informative only section, therefore, a bit more latitude is allowed here than would otherwise be found in a normative section. That being the case, a few statements were allowed to stray a bit (read: some whining and justification for effort was allowed).

Section 5 - Copper physical medium dependent cable media attachment

This section was passed over (there is an updated version just received today and will be reviewed tomorrow). The Molex folks will be here on Thursday to participate in the review of this section.

Section 6 - Copper physical medium dependent electrical specification

Much discussed, a few changes, a lot of justification discussion for that which is present. Eric continued applying "post-its" to his PDF.

Day One Dismissal: 5:30 PM

Thursday, 9th August 1999

Those in attendance: David Wooten (Compaq), Victoria Teng (NEC), Jerry Hauck (Zayante), Michael Teener (Zayante), Steve Bard (Intel), Colin Whitby-Stevens (Zayante), Eric Hannah (Intel), Jim Skidmore (TI), Dave KJohnson (TI), Burke Henehan (TI); John Lopata (Molex); Dave Brunner (Molex)

Section 5 Copper physical medium dependent cable media attachment

Introductory clause and clause 5.1 have been re-written. The word "Notes" in normative drawings has been changed to "Remarks". Remarks in normative drawings are to be identified as normative information.

Cable stamping is a recommendation while the "1394b" portion is eliminated from the stamping text.

The 6-circuit cable will be used in the construction of a bilingual to 6-circuit cable.
The 4-circuit cable will be used in the construction of a bilingual to 4-circuit cable.

Figure 5-24 will be corrected to reflect this.

The V_p and V_g wires will be drawn such to show that they are in the cable and not external to the cable.

Concluded section 6 from yesterday.

A bit of time was spent on section 10 in an effort to normalize terminology and bring clarity to the informative material. The glossary was updated with the definitions provided in clause 10.2.5 of draft 0.92.

Naming conventions (clause 10.2.2 was updated/corrected/clarified.

Text for when one sets disparity needs to be added to clause 10.2.3.

In all text and 'C-Code" every occurrence of "Control State" will be changed to "Control Token".

In clause 10.2.6.2 in instance where request type is used incorrectly (i.e. it should be request symbol) the appropriate change shall be made.

Review of clause 10 was complete.

Prioritization of sections: 12, 13, 11, 14.

Section 12

A number of figure cross reference issues and clause 12.10 and its subordinates are incomplete, incorrect and generally incoherent. David Wooten will extract clause 6.8 in 1394a and make appropriate changes for 1394b. This material will be used to replace clause

Day Two Dismissal: 7:30 PM

Friday, 10th August 1999

Those in attendance: David Wooten (Compaq), Victoria Teng (NEC), Jerry Hauck (Zayante), Michael Teener (Zayante), Steve Bard (Intel), Colin Whitby-Stevens (Zayante), Eric Hannah (Intel), Jim Skidmore (TI), Dave KJohnson (TI), Burke Henahan (TI)

Section 13

Large sections of Clause 13, i.e. the first two sections, will be rewritten by David Wooten on his way back to Houston. Steve Bard will review them and return them to David with comments (if necessary) Sunday evening. The issues are specific to bring-up of the PIL-FOP when the PIL believes the FOP has knowledge of prior negotiated speed. In addition, the PIL-FOP restore sequence isn't quite clear and will be "fixed-up".

Section 14

Some table column width changes normal cosmetic changes in tables.

Section 11

Number of questions and concerns regarding chapter 11. Especially surrounding the Standby/Restore.

Colin intends to update his c-code and c-code variable before next ballot pool meeting.

<Secretaries Comment: Appreciation is expressed to Victoria Teng (NEC) for scribing the minutes of the last hour and a half of the meeting. The Secretary had to leave at noon to catch his flight, which, for those interested, he missed by 15 minutes due to the "wonderful" ability of Hertz in the handling of an excessive large volume of rental car returns <grumpf>>

A discussion took place regarding the information supplied by Texas Instruments on "Bus Holders"

The distributed text and figure will go in to the end of chapter 12 after existing clause 12.10.8. Bus holders are an alternative solution for galvanic isolation presented in the normative sections of chapter12. The direct pin is not required for bus holder. The voltage inside the bus holder should be compatible between link signal voltage and PHY signal voltage. There must be a compatible supply between driver.

LCLK, PCLK, LREQ, PINT, DATA (7:0), CTL (1:0) can use bus holder as an alternative isolation. LINKON and LPS don't need bus holder.

TI expressed questions regarding UTP chapter and transmitter.

Day Three Adjourn with Sine Die at 1:30 PM (further work, as needed) to be performed via e-mail and conference calls.

Those in attendance at the IEEE P1394b SCAT meeting (August 23rd and/or August 25th):

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