

IEEE STANDARDS BOARD  
WORKING GUIDE AND PROJECT AUTHORIZATION REQUEST (PAR) FORM  
Revised 1/96

---

1. Sponsor Date of Request [                    ]

2. Assigned Project Number: P1394b (suggested)

Because of this project's relationship to IEEE Std 1394-1995 and Working Group P1394a, we would like to follow the trend and get the "b" designation. Our plan is to have a strict superset of p1394a, with a vote/publication about 1 to 2 years after the "a" vote.

3. PAR Approval Date [                    ]

4. Project Title, Copyright Agreement and Working Group Chair Project

I will write/revise a Standards Publication with the following title:

Standard [for] (Document stressing the verb "SHALL."), or  Recommended Practice for (Document stressing the verb "SHOULD."), or  Guide for (Document stressing the verb "MAY.")

WRITE TITLE HERE: High Performance Serial Bus (High Speed Supplement)

I hereby acknowledge my appointment as Official Reporter of the High Performance Serial Bus (Supplement) Working Group.

In consideration of my appointment and the publication of the Standards Publication identifying me, at my option, as an Official Reporter, I agree to avoid knowingly incorporating in the Standards Publication any copyrighted or proprietary material of another without such other's consent and acknowledge that the Standards Publication shall constitute a "work made for hire" as defined by the Copyright Act, and, that as to any work defined, I agree to and do hereby transfer any right or interest I may have in the copyright to said Standards Publication to IEEE.

Signature of Official Reporter

Chair \_\_\_\_\_

David R Wooten

Compaq Computer Corporation  
PO Box 692000 MS080701  
Houston, TX 77269-2000

(281) 518-7231  
(281) 518-2688 FAX

david.wooten@compaq.com

IEEE Member 40238464

5. Describe this project: (Choose ONE from each group below)

a. [No] Update an existing PAR

[No] Is this in ballot now?

b. [No] New Standard

[No] Revision of an existing standard.

[Yes] Supplement to an existing standard

c. [X] Full Use (5-year life cycle)

[ ] Trial Use (2-year life cycle)

d. [7/1/98] Fill in target completion date for submittal to IEEE Standards Review Committee (RevCom).

6. Scope of Proposed Project (What is being done including the technical boundaries of the project?)

The project scope is to write a supplement to IEEE Std 1394-1995 (and the 1394A supplement when that is completed) that defines a new set of higher speed transfers; in particular 8x, 16x and 32x the 1394-1995 base rate of 98.304 Mbit/sec; and allow the distance between nodes to be increased from 4.5 M to 50-100M . These new modes shall be electrically backwards compatible with the 1394-1995 protocols, but may require a new connector to support higher speeds. When operating over longer distances, the new modes may require alternate media (e.g., optical fiber) and the new media may require alternative physical connectors

7. Purpose of Proposed Project (Why is it being done, including the intended user(s) and benefits to that user(s))

The computer industry would like to guarantee a long life for 1394-based products, and there will be requirements for higher speed devices with full backwards compatibility in the near future. Speeds of 800, 1600, and 3200 Mbit/sec were viewed as adequate for the next ten years. There is also a desire to use 1394 as a home LAN protocol which will necessitate the increase in distance between nodes.

8. Sponsor Society/Committee:

Computer Society / Microprocessor Standards Committee

9. Patented, Copyrighted or Trademarked Material

9(a.1) [Yes] Are you aware of any patents, relevant to this project?

9(a.2) [Yes] Are you aware of any copyrights relevant to this project?

9(a.3) [Yes] Are you aware of any trademarks relevant to this project?

Some of the proposals expected from IBM may be the subject of patents, copyrights or trademarks, however IBM historically has been willing to comply with standards organizations and has made patents or copyrights necessary available on a nondiscriminatory basis. The X3T11 FibreChannel effort is an example of that, and IBM made a formal offer early in the history of IEEE 1394. No other patented, copyrighted or trademarked material has been identified that has relevance to the proposed scope of the project. If any such material is identified as standards development work proceeds, it is anticipated that

patent, copyright or trademark holders will be file a statement with the working group that indicates their intent with respect to IEEE policy.

Some of the proposals use techniques that are subject to a patent held by Hyundai. Hyundi has submitted an IPR to IPR statement to DAVIC regarding this patent and has indicated a willingness to submit an IPR to the IEEE regarding the patent.

9b. [Yes]Are you aware of any other standards or projects with a similar scope?

IEEE Std 1394-1995  
Working Group P1394A  
Working Group P1394.1

9c. [Yes]Is this standard intended to form the basis of an international standard?

If IEEE Std 1394-1995 is submitted for international standards approval, it is expected that this proposed supplement would also be forwarded for international standards approval.

9d. [No] Is this project intended to focus on health, safety or environmental issues?

10. Proposed Coordination/Recommended Method of Coordination (Coordination is accomplished in any of the following three ways: Circulation of Drafts or Liaison Membership or Common Membership.)

10a. Mandatory Coordination

SCC 10 (IEEE Dictionary):	Circulation of Drafts
SCC 14 (Quantities, Units, and Letter Symbols):	Circulation of Drafts
IEEE Staff Editorial Review:	Circulation of Drafts

10b. IEEE Coordination requested by Sponsor:

IEC TC100 United States National Committee:	Circulation of Drafts
IEEE Registration Authority Committee:	Circulation of Drafts
P1394A:	Circulation of Drafts, Common Membership
P1394.1:	Circulation of Drafts, Common Membership
ISO/IEC JTC1 SC26 United States TAG:	Circulation of Drafts

10c. Additional Coordination Requested by Others.

11. Submitted by: (This MUST be the Sponsor Chair or the Sponsor's Liaison Representative to the IEEE Standards Board)

Signature of Submitter\_\_\_\_\_

David B. Gustavson  
Chair, Microprocessor Standards Committee

SClzzl  
1946 Fallen Leaf Lane  
Los Altos, CA 94024-7206

(415) 961-0305  
(415) 961-3530 FAX  
[dbg@sunrise.scu.edu](mailto:dbg@sunrise.scu.edu)

IEEE Member 7430721