

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

1. Sponsor Date of Request [10/13/97]
2. Assigned Project Number: P1394.1
3. PAR Approval Date [9 Dec 1997]
4. Project Title, Copyright Agreement and Working Group Chair for This 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 Bridges

I hereby acknowledge my appointment as Official Reporter of the High Performance Serial Bus Bridges 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 _____

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5. Describe this project: (Choose ONE from each group below)
 - a. [Yes] Update an existing PAR
[No] Is this in ballot now?
 - b. [Yes] New Standard
[No] Revision of an existing standard.
[No] Supplement to an existing standard

- c. Full Use (5-year life cycle)
 Trial Use (2-year life cycle)

d. [12/31/98] Fill in target completion date for submittal to IEEE Standards Review Committee (RevCom).
[***** Note: MSC changed to 12/31/99]

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

Note for PAR revision 10/1/97: Item changed from the previous PAR is change of target completion date from 12/31/97 to 12/31/98.
[***** Note: MSC approved with 12/31/99]

The project scope is to extend the already defined asynchronous and isochronous services of High Performance Serial Bus (or extensions) beyond the local bus by means of a device, the bridge, which connects High Performance Serial Buses (possibly including closely related ISO/IEC 13123:1994 compliant buses). This device may include distributed bridges which consist of multiple subdevices in separate locations connected by a communications medium. The project is intended to standardize a model for, the definition of and the behaviors of High Performance Serial Bus (IEEE Std. 1394-1995) bridges that may be used to interconnect two or more separately enumerable High Performance Serial Buses. This project extends IEEE Std 1394-1995 and is to be based upon that standard as well as upon ISO/IEC 13123:1994, Control and Status Register (CSR) Architecture for Microcomputer Buses.

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

IEEE Std 1394-1995, High Performance Serial Bus, is a cost-effective desktop interconnect for both computer peripherals and consumer electronics. However, the use of High Performance Serial Bus in other environments, e.g., an interconnect to carry high-speed digital video data between rooms of a house, is hampered by the incomplete architectural and protocol specifications for bridges in the existing standard.

This project proposes to adequately specify the bridging architecture and protocols necessary to enable a larger consumer and computer market for High Performance Serial Bus products.

8. Sponsor Society/Committee:
Computer Society / Microprocessor Standards Committee

9.

9(a.1) [No] Are you aware of any patents, relevant to this project?

9(a.2) [No] Are you aware of any copyrights relevant to this project?

9(a.3) [No] Are you aware of any trademarks relevant to this project?

9b. [No] Are you aware of any other standards or projects with a similar scope?

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

There is no international standards activity for High Performance Serial Bus Bridges. If the proposed project is ultimately accepted as an IEEE standard, it is expected to 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:

IEEE Registration Authority Committee: Circulation of Drafts

P1394.n: Circulation of Drafts, Common Membership

P1596.1: Circulation of Drafts, Common Membership

10c. Additional Coordination Requested by Others.

IEC TC100 USNC

ISO/IEC JTC1/SC26 US TAG

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

Signature of Submitter_____

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