PAR FORM

1. Sponsor Date of Request [5 July 1999]

2. Assigned Project Number [request P1394.x]

3. PAR Approval Date []

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

         ["Draft Standard for a High Performance Serial Bus Peer
           to Peer Data Transfer Protocol (PPDT)"]

I hereby acknowledge my appointment as Official Reporter/Working Group
Chair to the (Name of Working Group)

        [Greg LeClair]

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/Working Group

Chair_____

Name   []
Date   []
Title   []
Company   []
Address   []
City   []
State   []
Zip   []
IEEE Member Number   []
Telephone   []
Fax   []
E-Mail   []

5. Describe this project: (Choose ONE from each group below)
a.   [No] Update an existing PAR (No or Yes/project number/ approval date)

b.   [Y] New Standard (Yes or No)

         [] Revision) of an existing standard. (No or Yes/standard number/year)

         [] Supplement to an existing standard (No or Yes/standard number/year)

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

d.   [] Fill in target completion date for submittal to IEEE Standards

        Review Committee (RevCom).

6. Scope of Proposed Project
[
A full-use standard whose scope is the definition of a peer-to-peer data transfer (PPDT) protocol
between Serial Bus devices that implement ANSI NCITS 325-1998, Serial Bus Protocol 2. The facilities
specified include, but are not limited to, the following:

– Device and service discovery. PPDT devices may use uniform discovery procedures to locate other
PPDT devices on the same bus. These procedures are extensible to an interconnected net of
buses, when specified by IEEE P1394.1, Draft Standard for Serial Bus to Serial Bus Bridges. Once
other PPDT devices are identified, facilities are provided to permit client applications to discover
services;

– Self-configurable (plug and play) binding of device drivers to PPDT devices in a dynamic
environment where users are free to insert and remove devices at will; and

– Connection management. A PPDT device (either an SBP-2 initiator or target) may establish and
manage uni- or bi-directional connections for data transfer with other PPDT devices. The
connections may be blocking or nonblocking, dependent upon application requirements, and operate
independently of each other.

Although the original impetus for the development of this standard came from participants knowledgeable
about printers and printing, the work has evolved and became relevant to any application that utilizes a
client/server model and requires efficient, peer-to-peer transfer of data between devices.
]

7. Purpose of Proposed Project
[
Experience with SBP-2 has demonstrated its high efficiency for the confirmed transfer of large quantities
of data between two devices. For historical reasons, SBP-2 is optimally tailored to an environment where
one device is the initiator (client) and the other the target (server); this is not necessarily the most natural
approach when client applications and their associated servers may be located within initiator, target or both.

The standard creates a new layer of protocol services based upon SBP-2, but, provides building blocks
more suited to a peer-to-peer environment. Because SBP-2 is already widely implemented in operating
systems, this standard leverages that effort in order to enhance the value of Serial Bus to devices in a
wider range of operational circumstances. These include printers, facsimile devices, scanners (or
multifunction devices that present some combination of these functions) when a compute

r is present—but
is also intended to address their peer-to-peer needs to communicate with each other in
 the absence of a
computer.
]

8.   Sponsor (Give full name; spell out all Acronyms) Society/Committee:

         [Computer Society - Microprocessor Standards Committee]
9.
9(a.1) [no] Are you aware of any patents, relevant to this project? (NO, DO NOT KNOW,
 or YES/explanation)

9(a.2) [no] Are you aware of any copyrights relevant to this project? (NO, DO NOT KNOW
, or YES/explanation)

9(a.3) [Do not know] Are you aware of any trademarks relevant to this project? (NO, D
O NOT KNOW, or YES/explanation)

9b. [No]Are you aware of any other standards or projects with a similar scope? (NO, D
O NOT KNOW, or
YES/explanation)

9c. []Is this standard intended to form the basis of an international standard?
        (NO, DO NOT KNOW, or YES/explanation)

Yes. This is standard Computer Society policy.

9d. []Is this project intended to focus on health, safety or environmental issues?
        (NO, DO NOT KNOW, or YES/explanation)
No

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

10a. Mandatory Coordination
SCC 10 (IEEE Dictionary) and IEEE Staff Editorial Review Circulation of Drafts
SCC 14 (Quantities, Units, and Letter Symbols) Circulation of Drafts

10b. IEEE Coordination requested by Sponsor: (Use additional page if necessary).
If you believe your project will require a Registration Authority,
please list IEEE RAC (refer to Working Guide).

[IEEE RAC - OUI procured]

If coordination is not required, please attach an explanation.

10c. Additional Coordination Requested by Others. (Leave blank. This will
be completed by the Standards Staff).

[SC26USTAG]

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

Name   [David B. Gustavson]
Title   [Microprocessor Standards Committee Chair]
Date   [8 July 1996]

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