T10/03-145r0

Voting Results on T10 Letter Ballot 03-144r0 on Forwarding SBP-3 to First Public Review Ballot closed: 2003/04/17 12:00 noon MDT

Organization	Name	s		Add'l Info	
Adapton Inc		-	DNV		
Adaptec, Inc. Amphenol Interconnect	Michael Wingard	Р	Yes		
Andiamo Systems, Inc.	Claudio DeSanti		Yes		
Brocade	Robert Snively	Р	Abs	Cmnts	
Cisco Systems, Inc.	-		DNV		
Congruent Software, Inc.	Peter Johansson		No	Cmnts	
Crossroads Systems, Inc.	Robert Griswold		Yes		
Dallas Semiconductor	James A. Lott, Jr. Kevin Marks		Yes Abs	Cmnto	
Dell Computer Corp. EMC	Gary S. Robinson	-	Yes	Cmnts	
Emulex	Robert H. Nixon	-	Abs	Cmnts	
ENDL	Ralph O. Weber		Abs	Cmnts	
FCI	Douglas Wagner	Р	Yes		
Fujitsu			DNV		
General Dynamics	Nathan Hastad	-	Yes	_	
Hewlett Packard Co.	Rob Elliott		Yes	Cmnts	
Hitachi Cable Manchester	Zane Daggett		Yes		
Hitachi Global Storage Tech. Honda Connectors	Dan Colegrove	۲	Yes DNV		
IBM Corp.	George O. Penokie	Р	Abs	Cmnts	
Intel Corp.	go	•	DNV		
Iomega Corp.	Tim Bradshaw	Α	Yes		
KnowledgeTek, Inc.	Dennis Moore	Р	Yes		
LSI Logic Corp.	John Lohmeyer		Yes		
Madison Cable Corp.	Jie Fan		Yes		
Maxtor Corp.	Mark Evans		Yes		
Microsoft Corp. Molex Inc.	Nathan Obr Jay Neer		Yes Yes		
Network Appliance Inc.	James R. (Bob) Davis				
Panasonic Technologies, Inc	Terence J. Nelson		Yes		
Philips Electronics	William P. McFerrin	Р	Yes		
Pivot3, Inc.	Bill Galloway	Р	Abs	Cmnts	
QLogic Corp.	Skip Jones		Yes		
Quantum Corp.	Jim Jones		Abs	Cmnts	
Seagate Technology	Gerald Houlder		Abs	Cmnts	
Storage Technology Corp. Sun Microsystems, Inc.	Erich Oetting Vit Novak		Yes Yes		
Texas Instruments	Paul D. Aloisi		Yes	Cmnts	
Toshiba	Hiroshi Suzuki		Yes		
UNISYS	Ron Mathews	Ρ	Yes		
Veritas Software	Roger Cummings	Р	Abs	Cmnts	
Vixel Corp.	Kenneth Hirata	Р	Abs	Cmnts	
Ballot totals: (26:1:10:5=42) 26 Yes 1 No 10 Abstain 5 Organization(s) did not vote 42 Total voting organizations 13 Ballot(s) included comments					
This 2/3rds majority ballot passed. 26 Yes are more than half the membership eligible to vote minus abstentions [greater than 16] AND 26 Yes are at least 18 (2/3rds of those voting, excluding abstentions [27]) AND 26 Yes are equal to or exceed a quorum [14]					
Key: P Voter is principal member A Voter is alternate member Abs Abstain vote					

DNV Organization did not vote

Cmnts Comments were included with ballot
NoCmnts No comments were included with a vote that requires comments

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Comments attached to Abs ballot from Robert Snively of Brocade:

This standard is outside the scope of our organization's present interests.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Comments attached to No ballot from Peter Johansson of Congruent Software, Inc.:

Comment 1 (Editorial, clause 1.1, page 1, line 8) Change "aforementioned standard" to plural.

Comment 2 (Technical, clause 2.2, page 3, line 30) SAM-2 is an approved standard; delete the citation from 2.2 and add the correct citation to 2.1. Make corresponding changes, as necessary, throughout the draft.

Comment 3 (Editorial, clause 4.5, page 17, line 2) Redundant "a" in the last

sentence of paragraph.

Comment 4 (Technical, clause 4.8, page 19, line 12) Only one isochronous subaction is permitted per channel during an isochronous period; "subactions"

should be singular.

Comment 5 (Editorial, clause 4.8, page 20, line 8) Delete "this".

Comment 6 (Editorial, clause 5.3, page 42, line 2) Grammatical correction; change "the logical unit fetch agent transitioned to the dead state" to "the

logical unit fetch agent entered the dead state". There is a second occurrence of the error in the same paragraph.

Comment 7 (Editorial, clause 6, page 47, lines 9 - 12) Readers may be able to

parse the last sentence of the paragraph more easily if "either ack\_complete

or ack\_pending subsequently followed by resp\_complete should be returned" is

changed to "either ack\_complete (or ack\_pending subsequently followed by resp complete) should be returned".

Comment 8 (Editorial, clause 3.1.2, pages 5 - 8) Add the definitions for "global node ID" and "local node ID". Draft standard IEEE P1394.1 is suggested as a source for the definitions.

Comment 9 (Technical, clause 3.1.2.9, page 6, line 11) Although there are two

ways to obtain a login ID, there is only one kind of login ID. Change "Either

kind of login ID" to "A login ID".

Comment 10 (Editorial, clause 3.1.3, page 8, line 20) The abbreviations DVCR  $\,$ 

and MPEG are not used in the standard (informative annexes are not considered

part of the standard) and should be deleted.

Comment 11 (Editorial, clause 5.1.1, page 23, line 13) Provide the missing cross-reference; I believe the correct reference is 9.1.1.

Comment 12 (Editorial, clause 5.1.2, page 26, Figure 16) The two isochronous

bits in the figure should not be shown blue nor underlined; this appears to be an artifact of a prior change to the draft.

Comment 13 (Technical, clause 5.1.3.1, page 30, lines 28 - 29) What is intended by the last sentence of the paragraph? If the update bit in a subsequent login request is one, should the most significant 16 bits of the login\_response field contain a node handle or a local node ID?

Comment 14 (Editorial, clause 5.1.3.2, page 32, line 15) Add the phrase "or net update" to the informative note.

Comment 15 (Technical, clause 5.1.3.4, page 34, line 6) Add the phrase "or net update" to the first sentence.

Comment 16 (Technical, clause 5.3.1, page 42, line 21) Change "shall store all or part of the status block shown in Figure 32" to "shall store a status

block in either of the formats shown in Figure 32 and Figure 33".

Comment 17 (Technical, clause 5.3.1, page 44, line 8) Change "the first 20 bytes of the ORB" to "the first 20 bytes of a single buffer descriptor ORB or

the first 32 bytes of a dual buffer descriptor ORB". Comment 18 (Technical, clause 5.3.3, page 45, line 4) Change "shall store all

or part of the status block shown in Figure 32" to "shall store a status block in either of the formats shown in Figure 32 and Figure 33". Comment 19 (Editorial, clause 6.1, page 47, line 24) Change "matches that" to "matches the node ID".

Comment 20 (Editorial, clause 6.5.7, page 57, line 27) Grammatical correction; change "the agent shall transition to the ACTIVE state" to "the agent shall enter the ACTIVE state".

Comment 21 (Editorial, clause 7, page 59, Figure 44) A gray shaded area present in the figure in the Word source manuscript is absent in the PDF prepared for Letter Ballot. Ask the ANSI editor to take care that the figure

is accurately reproduced in the final published standard. Comment 22 (Technical, clause 7.7.12, page 70, line 16) Since SBP-3 proposes

to standardize a bus-dependent key value, 0x31, for the Plug\_Control\_Register

entry, diligence should be exercised to ascertain that this value is, in fact, not yet in use.

Comment 23 (Editorial, clause 7.7.14, page 71, Figure 65) The extended\_status

bit in the figure should not be shown blue nor underlined; this appears to be

an artifact of a prior change to the draft.

Comment 24 (Technical, clause 7.7.8, page 68, line 21) Change "offset 0x20" to "offset 0x40". The smaller value is leftover from SBP-2. Comment 25 (Technical, clause 8.1, page 73, line 15) Change "a target" to "a

target's logical units".

Comment 26 (Editorial, clause 8.2.1, page 74, line 7) Change "transaction" to "request".

Comment 27 (Technical, clause 8.2.2, page 75, lines 37 - 38) Modify the last

sentence of the paragraph to read "Lastly the target assigns a unique task\_set\_ID to this task set, stores it in the task\_set\_descriptor and returns a create task set response as specified in 5.1.3.3"

Comment 28 (Editorial, clause 8.3.4, pages 77 - 78) The distinction between a

suspect node handle descriptor (i.e., one for which remote timeout is unknown

and the relationship between global node ID and EUI-64 has not been reconfirmed) and a totally unusable node handle descriptor (i.e., one whose global node ID is 0xFFFF) is not at all clear. This clause should be extensively revised for the sake of clarity.

Comment 29 (Editorial, clause 9.1.1, page 82, line 6) Grammatical correction;

change "the fetch agent transitions to the active state" to "the fetch agent

enters the active state".

Comment 30 (Editorial, clause 9.1.1, page 82, line 3 and lines 6 - 11) Grammatical correction; change "the fetch agent to transition to the ACTIVE state" to "the fetch agent to enter the ACTIVE state". Similar grammatical problems in the paragraph below Figure 68.

Comment 31 (Editorial, clause 9.1.3, page 83, lines 7 - 8) Grammatical correction; change "the fetch agent to transition to the ACTIVE state" to "the fetch agent to enter the ACTIVE state".

Comment 32 (Editorial, clause 9.1.3, page 83, line 12) The minor performance

improvement results from the elimination of the fetch of the ORB pointer---not the fetch of the ORB itself.

Comment 33 (Editorial, clause 9.1.4, page 83, line 20) Delete the spurious "the" before "either".

Comment 34 (Editorial, clause 9.1.4, page 83, line 34) Provide the missing cross-reference; I believe the correct reference is 5.3.1. Comment 35 (Technical, clause 9.2, page 85, line 18) The configuration ROM

Comment 35 (Technical, clause 9.2, page 85, line 18) The configuration ROM Revision entry describes target properties, not logical unit properties.

Replace "A logical unit ..." with "A target ...". Comment 36 (Editorial, clause 9.2, pages 86 - 88) Correct grammatical errors

throughout this clause; "transition" is not a verb and should be replaced with an appropriate verb, such as "enter".

Comment 37 (Editorial, clause 9.2, page 88, line 16 and line 24) Delete the erroneous underscore at the end of previous\_ORB (two occurrences). Comment 38 (Editorial, clause 9.2, page 88, line 32) Change "exceeds the target's busy retry limit" to "persists beyond the target's busy retry limit".

Comment 39 (Editorial, clause 9.2, page 88, line 37) Delete "is a unique state that"; it adds no useful information.

Comment 40 (Technical, clause 9.5, page 90, line 39) An extended status block

may be larger than 32 bytes; revise the status\_FIFO requirements to reflect this.

Comment 41 (Editorial, clause 10.2, page 93, lines 28 - 29) Delete the last sentence of this paragraph; the same information is repeated in the paragraph

## that follows.

Comment 42 (Technical, clause 10.5, page 98) The unlabeled table at the top the page should be updated to reflect the fact that there are no behavioral differences between primary and secondary task sets. Secondary task sets do not survive bus resets or net updates that affect their associated primary tasks set.

Comment 43 (Technical, clause 10.5, page 99, line 15) The "target" at the end

of the last sentence in the paragraph should be "fetch agent". Comment 44 (Technical, clause B.1, page 107, line 11) CDBs may be encapsulated in either single or dual buffer descriptor command block ORBs; revise the text to mention dual buffer descriptor ORBs. Comment 45 (Technical, clause B.2, pages 108 - 110) A mapping for descriptor-

based sense data (specified by SPC-3) should be added; an sfmt value of two could be used to differentiate the new format from the current fixed format.

Also, a method for mapping SCSI sense data of more than 18 bytes to an extended status block should be added. Note that this requires SPC-3 to be added to the references and bibliography.

Comment 46 (Technical, clause D, page 115, line 10) Here and throughout the document, references to the AV/C Digital Interface Command Set General Specification should be updated to cite version 4.1, December 11, 2001. Comment 47 (Editorial, clause F.1, page 123, line 11 and clause F.1.1, page 124,lines 2 - 5) Illustrate, in figure F-1, the new node options fields defined by IEEE Std 1394a-2000 and add their description to the first paragraph of F.1.1.

Comment 48 (Editorial, clause G.2, page 129, line 38) Grammatical correction;

change "the fetch agent transitions to the ACTIVE state" to "the fetch agent

enters the ACTIVE state".

Comment 49 (Editorial, clause H, pages 131 - 137) The terminology (taken from

an earlier revision of SAM-2) should be updated in accordance with INCITS 366-

2003

Comment 50 (Technical, clause H.10, page 136, lines 18 - 19) Delete the TERMINATE TASK and add the WAKEUP task management functions to the table. Comment 51 (Technical, clauses H.3.1 and H.3.2, page 132, line 5 and 26) Add

the [Command reference number] argument to the definitions of Send SCSI Command and SCSI Command Received.

Comment 52 (Editorial, clause J, page 143, line 11) Include instructions to the ANSI editor that if, at the time SBP-3 is prepared for publication, IEEE

P1394.1 is an approved standard that references throughout SBP-3 should be adjusted accordingly. Otherwise, the most recent draft of IEEE P1394.1, identified by version and the date, should be referenced. Comment 53 (Editorial, clause J, page 143, lines 12 - 13) Include instructions to the ANSI editor that if, at the time SBP-3 is prepared for publication, IEEE P1394.3 is an approved standard that references throughout

SBP-3 should be adjusted accordingly. Otherwise, the most recent draft of IEEE P1394.3, identified by version and the date, should be referenced.

\*\*\*\*\*\*\*\*\*\*\*\*\*\* Comments attached to Abs ballot from Kevin Marks of Dell Computer Corp.: Not technically familiar with standard/subject \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Comments attached to Abs ballot from Robert H. Nixon of Emulex: This standard is not relevant to the business of my organization. \* Comments attached to Abs ballot from Ralph O. Weber of ENDL: Not materially affected by this draft standard. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Comments attached to Yes ballot from Rob Elliott of Hewlett Packard Co.: HP #1 PDF Page 1 General Please provide PDF bookmarks HP #2 PDF Page 1 General Please number PDF pages to match printed page numbers HP #3 PDF Page 21 2.1 Approved references Remove: ISO/IEC 9899:1999, Programming Languages-C since there is no C code in this standard HP #4 PDF Page 23 3.1 Definitions Add "may not" with the same meaning as "may" to make it clear that it does not mean "shall not" HP #5 PDF Page 23 3.1.1.4 reserved "The recipient of a reserved object shall ignore its value." This rule is acceptable, but does differ from other SCSI standards which "may check" reserved fields. Is the WG sure this is the intention? 3.2.4 State machines Remove "The conditions and actions of the state machine transitions are formally defined by C code, as specified by ISO/IEC 9899:1990 [B13]. I don't see any C code in this standard formally describing any transitions. There is text describing each transition which

apparently serves as the only definition. Occasionally the transition descriptions in the figures contains &&, II, and == symbols, but they are not really C code. HP #7 PDF Page 47 5.1.3.1 Login ORB Remove "(see [B1])" - these references are not used consistently; only 3 "[Bxx] "references exist HP #8 PDF Page 82 7.3.5 Unit Directory etnry Delete "[B5]" from the NOTE. This is the only time "[B5]" is used alongside a 1212-2001 reference. HP #9 PDF Page 83 7.7 Directory entries Note 4: These entries may not be omitted altogether should be: ...shall not... HP #10 PDF Page 89 7.7.14 Logic\_Unit\_Number entry Figure 65 - Logical\_Unit\_Number entry format The extended\_status bit (x) is blue underlined. 10.4.3 Logical unit reset "Support for logical unit reset is a target option." Why not make it mandatory and comply with SAM-3? PDF Page 115 10.4.4 Target reset "The initiator shall not reuse..." should be "The initiators shall not reuse...." since this applies to all initiators, not just the one that sent the TARGET RESET. HP #13 PDF Page 116 10.5 Task management event matrix Delete: TERMINATE TASK - as it is not defined in SAM-2 (and later this standard says it is not supported) HP #14 PDF Page 125 B.1 SCSI command descriptor block Reword: "SBP-3 supports SAM-2 contingent allegiance." "this standard does not support ACA." Despite their names, ACA and CA are not related (CA relates to autosense). Not supporting ACA is unrelated to supporting CA. HP #15 PDF Page 125 B.1 SCSI command descriptor block Delete "flag and" The flag bit was made obsolete in SAM-2. HP #16 PDF Page 125 B.1 SCSI command descriptor block Change "flag (0)" to "obsolete" The flag bit was made obsolete in SAM-2.

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03-145r0.TXT HP #17 PDF Page 127 B.2 SCSI status and sense data Delete: 22h COMMAND TERMINATED This status code was made obsolete in SAM-3. HP #18 PDF Page 127 B.2 SCSI status and sense data "The contents of the CDB-dependent field are device-type or command dependent and are defined within SPC-2 or the appropriate standard for the command." Call this the "command-specific information" field to match the name in SPC-2/3. HP #19 PDF Page 127 B.2 SCSI status and sense data Change the "sense\_code and sense\_qualifier" field names to "asc" and "ascq" or "additional sense code" and "additional\_sense\_qualifier" to better match the SPC-2/3 names. HP #20 PDF Page 127 B.2 SCSI status and sense data fru field paragraph Tie this to the "field replaceable unit code" field defined by SPC-3 rather than reword the paragraph defining it. HP #21 PDF Page 128 B.2 SCSI status and sense data sense key-dependent field Tie this to the "sense key specific" field in SPC-2/3. HP #22 PDF Page 153 H.5 Contingent allegiance Delete: or COMMAND TERMINATED. That status was made obsolete in SAM-2. HP #23 PDF Page 153 H.5 Contingent allegiance Delete: SCSI-2 from "SCSI-2 contingent allegiance" CA was fully defined in SAM-2, so the SCSI-2 reference can be removed. (SAM-3 drops CA in favor of autosense) HP #24 PDF Page 154 H.9 Task test type Change: control mode page to: Control mode page HP #25 PDF Page 154 H.10 Task management functions Delete: SCSI-2 CA is fully defined in SAM-2; no need to reference an obsolete standard. HP #26

PDF Page 154

H.10 Task management functions

Logical Unit Reset: Optional SAM-2 made LOGICAL UNIT RESET mandatory, not optional. This standard should HP #27 PDF Page 154 H.10 Task management functions Delete: TERMINATE TASK: Not supported It's obsolete in SAM-2, so there is no need to reference it here. HP #28 PDF Page 154 H.10 Task management functions Reword: SBP-3 supports only contingent allegiance SBP-3 does not support ACA Although named similarly, CA and ACA are not either/or. By supporting autosense, this standard does NOT support CA either. J Bibliography Remove: [B13] ISO/IEC 9899:1990, Programming Languages-C since there is no C code in this standard. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Comments attached to Abs ballot from George O. Penokie of IBM Corp.: Not materially affected. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Comments attached to Abs ballot from Bill Galloway of Pivot3, Inc.: Not materially affected by this proposal. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Comments attached to Abs ballot from Jim Jones of Quantum Corp.: Not materially affected by this proposal. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Comments attached to Abs ballot from Gerald Houlder of Seagate Technology: Seagate is not materially affected by this project and doesn't have expertise to properly evaluate the project. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Comments attached to Yes ballot from Paul D. Aloisi of Texas Instruments: Submitted by: Paul Aloisi - Texas Instruments

Type Clause Page Line Comment / Suggested resolution

Editorial before page # John Lohmeyer's email should be lohmeyer@t10.org.

Editorial before page # The Vice chair is normally listed T10 Vice-Chair
George O. Penokie
LSI IBM/Tivoli
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Editorial viii the committee list and the group list, not enough space is left between columns and the names run into the numbers.

Editorial 3 30 SAM-2 should be listed as an approved standards

Editorial 4.7 17 24 (I.e the I is under the (

Editorial 4.8 20 18 transfer, the T is over the R

Editorital 5.1 23 3 t is over the h in the in the middle of the line

Editorial 5.1.2 26 19 T is over the h in the in the middle of the line

Editorial 5.1.3.3 32 23 o is over the f in of

Editorial 5.1.3.6 36 11 s is on the e in set

Editorial 6 47 8 a is over the 1 in all

Editorial 6 47 10 I is over the g in ignore

Editorial 6 46 1 The major sections should not have text directly under them,

sections should have subtitles for the introduction of the section. This is for all sections not just 6, I believe it is called a hanging clause.

Editorial 6.5 51 3 t is over the h in this

Editorial 6.5.7 55 11 t is over the o in to

Editorial 7.7.12 70 13 t is over the h in than

Editorial 7.7.14 71 Figure 65, the x is blue and underlined, this appears be

be a mark up that was not accepted

Editorial 7.7.14 71 17 A sentence starts with f, I think it should be If

Editorial 8.5 79 14 eceived should be received

Editorial 9.1 81 11 o over the f in of

Editorial 9.1.4 84 11 wite should be write

Editorial 9.2 87 20 h this state, I thinks should be "In this state"

editorial 11 101 27 o is on top of the r, should be or?

Editorial b2 110 2 bt I think should be bit

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Comments attached to Abs ballot from Roger Cummings of Veritas Software:

Not within our ourganization's scope of concern

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**********	
Comments attached to Abs ballot from Kenneth Hirata of Vixel Corp.:	
This specification does not directly or materially affect Vixel Corporation's	
products.	
******** End of Ballot Report ***********	