Voting Results on X3T10 Letter Ballot 96-047r0 on Forwarding SSA-TL2 to first public review

<table>
<thead>
<tr>
<th>Organization</th>
<th>Name</th>
<th>S</th>
<th>Vote</th>
<th>Add'l Info</th>
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<tbody>
<tr>
<td>Adaptec, Inc.</td>
<td>Lawrence J. Lamers</td>
<td>A</td>
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<tr>
<td>Amdahl Corp.</td>
<td>Edward Fong</td>
<td>P</td>
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<td>AMP, Inc.</td>
<td>Charles Brill</td>
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<td>Ancot Corp.</td>
<td>Jan Dedek</td>
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<td>Apple Computer</td>
<td>Ron Roberts</td>
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<td>Berg Electronics</td>
<td>Douglas L. Wagner</td>
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<td>C prico Inc.</td>
<td>Gerry Johnsen</td>
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<td>Circuit Assembly Corp.</td>
<td>Ian Morrell</td>
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<td>CMD Technology</td>
<td>Edward Haske</td>
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<td>Congruent Software, Inc.</td>
<td>Peter Johansson</td>
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<td>Dallas Semiconductor</td>
<td>Louis Grantham</td>
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<td>Digital Equipment Corp.</td>
<td>Charles Monia</td>
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<td>Yes</td>
<td>IV</td>
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<td>Distributed Processing Tech.</td>
<td>Roger Cummins</td>
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<td>Eastman Kodak Co.</td>
<td>Robert Reisch</td>
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<td>ENDL</td>
<td>I D Allan</td>
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<td>Exabyte Corp.</td>
<td>Edward Lappin</td>
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<td>Fujitsu Computer Products, Am</td>
<td>Robert Liu</td>
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<td>Hewlett Packard Co.</td>
<td>J. R. Sims</td>
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<td>Hitachi Cable Manchester, Inc</td>
<td>Zane Daggett</td>
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<td>Honda Connectors</td>
<td>Thomas J. Kulesza</td>
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<td>IBM Corp.</td>
<td>John P. Scheible</td>
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<td>Yes C Cmnts</td>
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<td>Iomega Corp.</td>
<td>Geoffrey L. Barton</td>
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<td>KnowedgeTek, Inc.</td>
<td>Dennis Moore</td>
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<td>Linfinity Micro</td>
<td>Dean Wallace</td>
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<td>Madison Cable Corp.</td>
<td>Robert A. Bellino</td>
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<td>Maxtor Corp.</td>
<td>Pete McLean</td>
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<td>Mbel Inc.</td>
<td>Joe Dambach</td>
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<td>Oak Technology, Inc.</td>
<td>Edward A. Gardener</td>
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<td>IV Cmnts</td>
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<td>Ophidian Designs</td>
<td>Stephen F. Heil</td>
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<td>Panasonic Technologies, Inc</td>
<td>Bill McFerrin</td>
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<td>Quantum Corp.</td>
<td>Skip Jones</td>
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<td>Seagate Technology</td>
<td>Gene Milligan</td>
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<td>No</td>
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<td>Silicon Systems, Inc.</td>
<td>Dave Guss</td>
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<td>Sony Electronics, Inc.</td>
<td>Mike Yokoyama</td>
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<td>Storage Technology Corp.</td>
<td>Erich Oetting</td>
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<td>Sun Microsystems Computer Co</td>
<td>Bob Snively</td>
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<td>SyBios Logic Inc.</td>
<td>John Lohneyer</td>
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<td>SyQuest Technology, Inc.</td>
<td>Patrick Mercer</td>
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<td>Tandem Computers</td>
<td>John Moy</td>
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<td>Toshhiba America</td>
<td>Tokuyuki Totani</td>
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<td>UNISYS Corporation</td>
<td>Kenneth J. Hallam</td>
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<td>Unisys Corporation</td>
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<td>Western Digital Corporation</td>
<td>Jeffrey L. Williams</td>
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<tr>
<td>Woven Electronics</td>
<td>Doug Piper</td>
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</tbody>
</table>

Key:
P  Voter indicated he/she is principal member
A  Voter indicated he/she is alternate member
O  Voter indicated he/she is observer member
?  Voter indicated he/she is not member or does not know status
Yes C Yes with comments vote
Abs  Abstain vote
DNV  Organization did not vote
IV  Individual vote (not organizational vote)
Cmnts Comments were included with ballot
NoCmnts No comments were included with a vote that requires comments
DUP Duplicate ballot (last ballot received from org. is counted)
PSWD The password was not correct (vote not counted)
ORG Organization is not voting member of X3T10 (vote not counted)

Ballot totals:
43 Yes
2 No
0 Abstain
1 Organization(s) did not vote
46 Total voting organizations
3 Ballot(s) included comments

This 2/3rds majority ballot passed.

Comments attached to YesC ballot from John P. Scheible of IBM Corp.:

I consider all comments editorial (E) except for 9, 18, 19, and 20.

1) (E) Global:
   Change "(( " to "([" and "])" to ")"). Also "(s.)" to "(s)]."

2) (E) Global:
   Change "< any letter>" to ", any letter> " to add a space.

3) (E) Table of contents:
   Change heading from "Table" to "Tables" (plural).

4) (E) Table of contents:
   Table numbers for 41-60 should be bold.

5) (E) Introduction:
   Change "Clause 4 contains" to "Clause 4 defines" for consistency.

6) (E) 3.2:
   Add abbreviation OUI (Organizationally Unique Identifier).

7) (E) 4, last paragraph:
   Change "Figures and tables (highest) take precedence over text
   (lowest)." to "In case of conflict, figures take precedence over
   tables and both figures and tables take precedence over text."

8) (E) end of 6.2, end of 7.2.7, end of 7.2.8:
   Change "(see 0)" to "(see 9.5).

9) (T) 9.3, paragraph after psuedocode:
   Change "Channels 0- 127 are addressed one byte. Channels 129-
   16 383." to "Channels 0 - 127 are addressed one byte. Channels 128
   - 16 383." (128 was left out).

10) (E) 10.2.3, fifth para, end first sentence:
    Change ".)." to ")."

11) (E) Table 20, first column:
    Change small caps to all caps (values, not field names). names).
12) (E) 10.3:
   Add semicolon to d) first list,
   Add period to e) of second list.

13) (E) 10.4.1, bullet c):
   Change "Ready State" to "Ready state" (lower case "S").

14) (E) 10.6:
   Change TL2 to SSA-TL2 (global).

15) (E) 11.1.3, element h):
   Change "mod" to "modulo" (two places) to match l).

16) (E) Table 29, sixth row from end:
   Should not be bold.

17) (E) Table 32, bottom of byte 12:
   Should be solid line, not dotted.

18) (T) Table 37, version 00h:
   Change "SSA-TL1 implementations before standardization" to
   "Implementations prior to standardization." Since version 00h is not
   SSA-TL1.

19) (T) Table 37, version 04h:
   Change "SSA-IA/96PH" to either "reserved" or "SSA-IA/97PH" depending
   on whether the SSA-IA plans to document this version. Confusion
   will occur since someone may try to obtain the non-existent document.

20) (T) 12.2.7, SSA-TL paragraph:
   Correct name, add "if possible" and add examples, by changing:
   "The SSA-TL field defined in Table 37 identifies the version of SSA-TL
   being
   used by the sender. If multiple levels of SSA-TL are supported, then
   highest value shall be reported that is equal to or less than the SSA-TL
   field in the associated QUERY NODE SMS."
   to:
   "The SSA-TL VERSION field defined in Table 37 identifies the version of
   SSA-TL
   being used by the sender. If multiple levels of SSA-TL are supported
   and
   any are numerically less that the SSA-TL VERSION field of the QUERY NODE
   SMS,
   then highest value shall be reported in the QUERY NODE REPLY SMS that is
   equal to or less than the SSA-TL VERSION field in the associated QUERY
   NODE
   SMS. The following are examples:
   a) An SSA-TL1/SSA-TL2 Configurator sends a QUERY NODE SMS indicating an
      SSA-TL
      version of SSA-TL2. An SSA-TL1 only node responds with a QUERY NODE
      REPLY SMS indicating SSA-TL1. The Configurator now knows to use SSA-TL1
      to
      communicate with the node.
   b) An SSA-TL1/SSA-TL2 Configurator sends a QUERY NODE SMS indicating an
      SSA-TL
      version of SSA-TL2. An SSA-TL1/SSA-TL2 or SSA-TL2 only node responds
      with a QUERY NODE REPLY SMS indicating SSA-TL2. The Configurator now
      knows
      to use SSA-TL2 to communicate with the node.
   c) An SSA-TL1 only Configurator sends a QUERY NODE SMS indicating an
      SSA-TL
      version of SSA-TL1. An SSA-TL2 Configurator sends a QUERY NODE SMS
      indicating SSA-TL2. The Configurator now knows
      to use SSA-TL2 to communicate with the node.
   d) An SSA-TL1 only Configurator sends a QUERY NODE SMS indicating an
      SSA-TL
version of SSA-TL1. An SSA-TL1/SSA-TL2 node responds with a QUERY
NODE
REPLY SMS indicating SSA-TL1. The Configutor now knows to use SSA-TL1
to communicate with the node.

d) An SSA-TL1 only Configutor sends a QUERY NODE SMS indicating an
SSA-TL
version of SSA-TL1. An SSA-TL2 only node responds with a QUERY NODE
REPLY SMS indicating SSA-TL2. The Configutor now knows it cannot
communicate with the node, and does not register with it.

21) (E) 12.2.7, LONG bit paragraph:
   Remove the extraneous "(".

22) (E) Table 53:
   Blank rows between byte 3 and 4 should be removed.

*******************************************************************************
Comments attached to No ballot from Edward A. Gardner of Ophidian Designs:

I am uncomfortable with VLSI's negative vote remaining unresolved. I would
like to see X3T10.1 respond to that vote and comment before forwarding this
for review.

If X3T10.1 has already responded to VLSI's vote, please refer me to the
relevant document and I will amend my vote.

*******************************************************************************
Comments attached to No ballot from Gene Milligan of Seagate Technology:

1) The ballot does not show what the response was to the X3T10.1 "NO"
ballet.

2) The ballot does not indicate why Rev 4 is being forwarded when X3T10.1
ballotted to forward Rev 3.

3) The draft should have an editorial review checking at least for the
   appropriate use of key words (e.g. this drafts contains at least three musts
   and fifteen cans.

4) If someone implements SSA-TL2 and an appropriate selection of the other
SSA drafts will they be interoperable with the defacto installed base of SSA
   subsystems? (This is a question and not the basis for the NO - see comments
   1-3.)

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End of Ballot Report *****************************