

Accredited Standards Committee  
NCITS, National Committee for Information Technology Standards

Doc: T10.1/97a101r3  
Date: February 17, 1997  
Project: X3T10.1/1147D  
Ref. Doc.: SSA-TL2 rev 4  
Reply to: John Scheible

To: T10.1 Membership  
From: John Scheible

Subject: Letter ballot comment resolution on SSA-TL2 rev 4

### **BACKGROUND**

This proposal documents the responses to the X3T10 letter ballot for SSA-TL2 rev 4. Revision 2 is the output of the February 5 1997 SSA Working group, and is the recommendation to the SSA T10.1 plenary and will be considered on February 26 1997.

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.:**

RESPONSE: Accept all as written with modifications to IBM-19) and IBM-20) as shown.

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

IBM-1) Global: Change (( to [( and )] to )) . Also (s.) to (s)].

IBM-2) Change <any letter>( to <any letter> ( to add a space.

IBM-3) Table of tables: Change heading from Table to Tables (plural).

IBM-4) Table of tables: Table numbers for 41-60 should be bold.

IBM-5) Introduction: Change Clause 4 contains to Clause 4 defines for consistency.

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

IBM-7) 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.

IBM-8) end of 6.2: Change (see 0) to (see 9.5) . Also applies to end of 7.2.7 and 7.2.8.

IBM-9) 9.3, paragraph after pseudocode: 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).

IBM-10) 10.2.3, fifth para, end first sentence: change .). to ).

IBM-11) Table 20, first column: Change small caps to all caps (values, not field names).

IBM-12) 10.3, add semicolon to d) first list, add period to e) of second list.

- IBM-13) 10.4.1, c): Change Ready State to Ready state (lower case S ).
- IBM-14) 10.6: Change TL2 to SSA-TL2 (global).
- IBM-15) 11.1.3, element h): Change mod to modulo (two places) to match l).
- IBM-16) Table 29, sixth row from end: Should not be bold.
- IBM-17) Table 32, bottom of byte 12: should be solid line, not dotted.
- IBM-18) Table 37, version 00h: Change SSA-TL1 implementations before standardization to Implementations prior to standardization. Since version 00h is not SSA-TL1.
- IBM-19) 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.  
RESPONSE: Change SSA-IA96 (04) to reserved, add SSA-IA/95PH Plus (05), add SSA-TL1 Plus (06).  
Add the following note to point to the T10 home page where the documents will be located.  
 NOTE 1 - The SSA-IA/95PH, SSA-IA/95PH Plus, and SSA-TL1 Plus documents may be found on the T10 home page (<http://www.x3.org/x3t10>).
- IBM-20) 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 than the SSA-TL VERSION field of the QUERY NODE SMS, then the 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-TL1/SSA-TL2 node responds with a QUERY NODE REPLY SMS indicating SSA-TL1. The Responder now knows to use SSA-TL1 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-TL2 only node responds with a QUERY NODE REPLY SMS indicating SSA-TL2. The Configurator now knows it cannot communicate with the node, and does not register with it.  
RESPONSE: Make two minor changes as shown above.
- IBM-21) 12.2.7, LONG bit paragraph: Remove the extraneous ( .
- IBM-22) Table 53, blank rows between byte 3 and 4 should be removed.

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

- OPH-1) 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.

RESPONSE: Add and implementer s note after 8, paragraph 6 (Brad Kitson (VLSI) would change his vote to Yes based on this response)

Note n: Hardware implementers should allow at least 16 bytes (excluding CRC) of dedicated buffer space for future extensions to the Link Reset and Extended Link Reset frames .

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

RESOLUTION: (see each comment)

- SEA-1) The ballot does not show what the response was to the X3T10.1 "NO" ballot.  
RESPONSE: See OPH-1 above.
- SEA-2) The ballot does not indicate why Rev 4 is being forwarded when X3T10.1 balloted to forward Rev 3.  
RESPONSE: T10.1 voted to forward Rev 3 as modified, and instructed the editor to create rev 4 with those modifications.
- SEA-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.  
RESPONSE: Replace must with shall in 9.4.1 para 2, 13.1.1 second bullets a) and e). Replace can with may in 10.1.1 para 2, 10.1.7 para 1, 10.1.8 para 1, Table 19 note, 10.2.4 para 6, 10.4.2 bullets d) f) h), 12.2.12 last para, 13.1.1 para 1, B.4.2 para 1, B.4.3 para 1 and 3. Replace can with shall in 12.2.16 bullet a). Replace it can with the REGION IDENTIFIER field may in 12.2.17 para 4. Replace could with may in 13.1.1 para 1 and second bullet f), 10.2.4 para 2, and 13.3.2 para 1.
- SEA-4) If someone impliments 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.)  
RESPONSE: Yes, the different levels of PH1 / PH2 , TL1 / TL2, and S2P / S3P interoperate and co-exist on the same loop simultaneously. The physical layers can connect to each other and speed matching is done on a link by link basis. The transport layers identify themselves in the QUERY NODE and QUERY NODE REPLY SMSs. Likewise the S2P and S3P layers identify themselves in the QUERY NODE REPLY SMS and whichever protocol layer is needed can be used between any given source and destination pair dynamically.

Sincerely,

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