T10/05-137r0 SAT - Standard INQUIRY - PRODUCT REVISION LEVEL

To: T10 Technical Committee
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Subject: T10/05-137r0 SAT- Standard INQUIRY - PRODUCT REVISION LEVEL

Revision History

Revision 0 (March 31, 2005) first revision

Related Documents

(T10) sat-r02 – SCSI to ATA Translation (SAT), Revision 2
(T10) spc-3r22 – SCSI Primary Commands - 3, Revision 22
(T13) ata7v1r4b – AT Attachment with Packet Interface -7 Volume1, Revision 4b

Overview

1. SCSI implementers are requesting meaningful information in the PRODUCT REVISION LEVEL field of Standard INQUIRY.
2. Just as a note, the PRODUCT IDENTIFICATION field does present meaningful information from the device that received the INQUIRY command.

Suggested Changes

(note to editor...requesting change to Table 7, PRODUCT REVISION LEVEL field, as follows...)

Table 7 – Standard INQUIRY data fields (part 2 of 2)

Field	SATType	Description or reference

PRODUCT REVISION LEVEL	E	~~The SATL shall set the PRODUCT REVISION LEVEL field to 20202020h (i.e., four ASCII spaces) [b].~~
		
		The SATL shall set the PRODUCT REVISION LEVEL field to a 4 byte ASCII character representation of the non-packet device IDENTIFY DEVICE data Firmware revision field. Each pair of bytes are swapped to create a valid ASCII string format. Since the non-packet device IDENTIFY DEVICE Firmware revision field contains 8 ASCII characters and the Standard INQUIRY PRODUCT REVISION LEVEL field is 4 ASCII characters the SATL shall select 4 of the 8 ASCII characters from the IDENTIFY DEVICE Firmware revision field to present in the PRODUCT REVISION LEVEL field based on the following:
		A: If the IDENTIFY DEVICE data received in words 25 and 26 from the non-packet device are ASCII spaces (20h) the 4 ASCII characters selected shall be:
		  1) byte 0 contains IDENTIFY DEVICE word 23 bits 15:8 (i.e., byte 1);
		  2) byte 1 contains IDENTIFY DEVICE word 23 bits 7:0 (i.e., byte 0);
		  3) byte 2 contains IDENTIFY DEVICE word 24 bits 15:8 (i.e., byte 3); and
		  4) byte 3 contains IDENTIFY DEVICE word 24 bits 7:0 (i.e., byte 2);
		                or
		B: If the IDENTIFY DEVICE data received in words 25 and 26 from the non-packet device are not ASCII spaces (20h) the 4 ASCII characters selected shall be:
		  1) byte 0 contains IDENTIFY DEVICE word 25 bits 15:8 (i.e., byte 5);
		  2) byte 1 contains IDENTIFY DEVICE word 25 bits 7:0 (i.e., byte 4);
		  3) byte 2 contains IDENTIFY DEVICE word 26 bits 15:8 (i.e., byte 7);
		  4) byte 3 contains IDENTIFY DEVICE word 26 bits 7:0 (i.e., byte 6);