

X3T9.2/87-77



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To: X3T9.2 SCSI-2 Working Group and X3T9.2 Committee Members

From: Paul R. Nitz (714) 662-5600

Subj: SCSI-2 Inquiry Peripheral Device Type Proposal

Attached for your review is a proposal for further definition of the peripheral device type field in the Inquiry command. Presently, SCSI-2 does not have a method that the Initiator can determine if a physical device is attached to a Target logical unit. This proposal identifies a method of returning that information but does not conflict with the current SCSI-1 implementation.

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**Inquiry Command Data Peripheral Device Type Field**

Bit Byte	7	6	5	4	3	2	1	0
0	Qualifier		Peripheral Device Type					

The peripheral device type and qualifier fields identifies the physical device type currently connected to the logical unit. If the logical unit is not capable of supporting a physical device this field shall be set to 7Fh (qualifier set to 1 and peripheral device type set to 3Fh). The qualifiers are shown in Table \_\_\_ and the peripheral device types are shown in Table \_\_\_.

Table \_\_\_: Peripheral Qualifier

Qualifier	Description
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- 0 0 The logical unit is capable of supporting the peripheral device type identified in bits 0 thru 5, as defined in table \_\_\_\_, and the device is currently connected to the target. If the target cannot determine whether or not a physical device is currently connected to the controller it shall also use this code when returning the inquiry data. Note: Returning this qualifier does not imply that the device is ready for access from the Initiator.
- 0 1 The logical unit is capable of supporting the peripheral device type identified in bits 0 thru 5, as defined in table \_\_\_\_. However, the physical device is not currently connected to the controller.
- 1 x Vendor unique

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Table 1-1: Peripheral Device Type

Code	Description
00h	Direct-access device (e.g., magnetic disk)
01h	Sequential-access device (e.g., magnetic tape)
02h	Printer device
03h	Processor device
04h	Write-once read-multiple device (e.g., some optical disks)
05h	Read-only direct-access device (e.g., some optical disks)
06h	Scanner devices
07h	Optical memory devices (e.g., some optical disks)
08h	Changer devices, (e.g. jukeboxes)
09h	Communication devices
0Ah - 3Eh	Reserved
3Fh	No physical device supported (qualifier must be set to 01)

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