

To: T10 Technical Committee
 From: Rob Elliott, HP (elliott@hp.com)
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 Subject: T10/03-056r0 SPC-3 Protocol Identifier for ATAPI

Revision History

Revision 0 (18 October 2003) first revision

Related Documents

spc3r15 SCSI Primary Commands - 3 revision 15
 ses2r04 SCSI Enclosure Services - 2 revision 4
 T10/03-264 Serial ATA II Specification: Extensions to Serial ATA 1.0a
 T13/d1532v1 AT Attachment - 7 with Packet Interface (ATA/ATAPI-7) volume 1

Overview

ATAPI (ATA Packet Interface) is a widely used SCSI transport layer (transports SCSI commands, data, and status over ATA), yet there is no protocol identifier assigned for it in SPC-3.

Also, Serial ATA II (T10/03-346) defines an SEP_ATTN command that can carry the payload of a SCSI SEND DIAGNOSTIC or RECEIVE DIAGNOSTIC RESULTS command (to communicate SCSI Enclosure Services diagnostic pages). Some of the SES-2 diagnostic pages

A protocol identifier is proposed for ATA/ATAPI to cover both of these uses. It could be used (although there are no proposals yet) in:

- Identification descriptors (for INQUIRY VPD page 83h)
- Protocol-Specific Port log page (for LOG SENSE/LOG SELECT)
- Protocol-Specific Logical Unit mode page (for MODE SENSE/MODE SELECT)
- Protocol-Specific Port mode page (for MODE SENSE/MODE SELECT)
- Alias entry designations (for the ALIAS commands)
- Transport IDs (for the ACCESS CONTROL commands)
- Target descriptors (for the EXTENDED COPY and XOR commands)
- Device Element Status descriptors (for ATA-related Device elements in SES-2)

Suggested Changes

In the protocol-specific parameters section, assign a protocol identifier for ATAPI (also add acronyms and references if needed).

7.5.1 Protocol specific parameters introduction

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SPC-3 Table 237 - PROTOCOL IDENTIFIER values

Protocol identifier	Description	Protocol standard
8h	ATA Packet Interface (ATAPI)	ATA/ATAPI-7