To: T10 Technical Committee
From: Rob Elliott, HP (elliott@hp.com)
Date: 18 October 2003
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

<table>
<thead>
<tr>
<th>Protocol identifier</th>
<th>Description</th>
<th>Protocol standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>8h</td>
<td>ATA Packet Interface (ATAPI)</td>
<td>ATA/ATAPI-7</td>
</tr>
</tbody>
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