

To: T10 Technical Committee
From: Rob Elliott, HP (elliott@hp.com)
Date: 2 November 2002
Subject: 02-472r0 SAS Make Protocol-Specific mode page short format optional

Revision history

Revision 0 (2 November 2002) First revision

Related documents

sas-r02b - Serial Attached SCSI revision 2b

Overview

The Protocol-Specific mode page short format, with the I_T nexus loss time field, is not optional in sas-r02b and earlier. All mode pages should be optional.

Suggested changes

10.1.2.1 Disconnect-Reconnect mode page

10.1.2.1.1 Disconnect-Reconnect mode page overview

The Disconnect-Reconnect mode page (see SPC-3) provides the application client the means to tune the performance of the service delivery subsystem. Table 91 defines the parameters which are applicable to SSP. **This mode page and all fields in this mode page are optional.**

If any field in the Disconnect-Reconnect mode page is not implemented, the value assumed for the functionality of the field shall be zero (e.g., as if the mode page is implemented and the field is set to zero).

...

10.1.2.2 Protocol-Specific Port mode page

10.1.2.2.1 Overview

The Protocol-Specific Port mode page (see SPC-3) contains parameters that affect SAS SSP target port operation. **This mode page and all subpages of this mode page are optional.** If the mode page is implemented, all logical units in SAS SSP target devices supporting the MODE SELECT or MODE SENSE commands shall implement the page. If implemented, there shall be one copy of the mode page shared by all initiator ports.

...

The I_T NEXUS LOSS TIME field indicates how long in milliseconds the target port shall retry connection requests to an initiator port that are rejected with OPEN_REJECT (NO DESTINATION), OPEN_REJECT (CONNECTION RATE NOT SUPPORTED), or connection timeouts before treating it as an I_T nexus loss (see 4.5). An I_T NEXUS LOSS TIME of zero indicates the target port shall never consider rejections an I_T nexus loss. **If the mode page is implemented, the default value shall be 2 000 ms; if the mode page is not implemented, the target port shall never consider rejections an I_T nexus loss.**

...