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To: T10 Technical Committee
From: John Lohmeyer, LSI Logic Principal Member of T10
Subj: Clarification of interaction of SDTR/WDTR messages with PPR message

Now that SPI-3 provides two ways to negotiate synchronous and wide data transfer agreements, we need to clarify how the new PPR method interacts with the old method and which method is preferred. Also, the SDTR and WDTR descriptions say nothing about what happens to the new protocol options should a SDTR or WDTR negotiation occur after a PPR negotiation. This proposal would force the protocol options to 0h in this case.

All section, table, and page references are to SPI-3 Rev 2. The page references include the paper page number separated with a colon from the PDF page number.

12.7.2.10 (page 146:164)

Assuming this proposal is accepted, delete Editors Note 9.

12.7.2.13 (page 152:170)

Add a sentence to the first paragraph so that it reads:

SYNCHRONOUS DATA TRANSFER REQUEST (SDTR) messages (see table 55) are used to negotiate a synchronous data transfer agreement between two SCSI devices. Designs that implement the SYNCHRONOUS DATA TRANSFER REQUEST message shall also implement the PARALLEL PROTOCOL REQUEST message.

Table 57 (page 154:172)

Revise the first Implied agreement as follows:

Synchronous transfer (i.e.,Each SCSI device transmits data with a transfer period equal to or greater than and a REQ/ACK offset equal to or less than the values received in the other de-vice's SDTR message) with ST DATA IN and ST DATA OUT phases. This is equivalent to protocol options of 0h in the PARALLEL PROTOCOL REQUEST message.

12.7.2.17 (page 156:174)

Add a sentence to the first paragraph so that it reads:

WIDE DATA TRANSFER REQUEST (WDTR) messages (see table 58) are used to negotiate a wide data transfer agreement between two SCSI devices.. <u>Designs that implement the WIDE DATA TRANSFER REQUEST message shall also implement the PARALLEL PROTOCOL REQUEST message.</u>

12.7.2.17 (page 157:175)

Near the bottom of the page, revise item c) as follows:

c) if a WDTR message is not rejected with a MESSAGE REJECT message a WDTR message shall reset the synchronous data transfer agreement to asynchronous mode <u>and, if applicable, the protocol options previously negotiated with the PARALLEL PROTOCOL REQUEST message shall be reset to 0h.</u>