Annotations from spi5r03_me_lb_cmts.pdf

Page 5

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 2:11:45 PM
Was this page left blank intentionally? If not, it should be deleted.

Page 13

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:04:05 AM
This should be changed from subscript to regular font.

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:04:05 AM
This should be changed from subscript to regular font.

Page 21

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:05:55 AM
The page number should be aligned properly.

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:06:54 AM
This should be changed from subscript to regular font.

Annotation 3; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:05:55 AM
The page number should be aligned properly.

Annotation 4; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:06:54 AM
This should be changed from subscript to regular font.

Page 26

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:08:31 AM
I recommend that "transport protocol" be changed to "parallel interface."

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:08:31 AM
I recommend that "transport protocol" be changed to "parallel interface."

Page 27

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:10:44 AM
I recommend that this sentence be changed to read, "This standard has made obsolete the
single-ended and multimode signaling alternatives. Implementations that use single-ended or
multimode signaling should reference the SCSI Parallel Interface-2 standard (ISO/IEC 14776-112)."

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:10:44 AM
I recommend that this sentence be changed to read, "This standard has made obsolete the
single-ended and multimode signaling alternatives. Implementations that use single-ended or
multimode signaling should reference the SCSI Parallel Interface-2 standard (ISO/IEC 14776-112)."

Page 30

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:13:30 AM
The definition for AAF should be deleted, as it is not used anywhere in the document.

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:13:30 AM
The definition for AAF should be deleted, as it is not used anywhere in the document.

Annotation 3; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 2:11:16 PM

I recommend that SAM-3 be included, as well. I also think that references later in the document should be to SAM-3 as the latest version of this is the most up-to-date.

Page 31

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:21:55 AM
I recommend that, "asynchronous" be deleted as it is redundant.

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 10:31:35 AM
I recommend that this be changed to the following, "A response returned to the application client that signals the completion of a service request (see 4.13)."

Annotation 3; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:23:48 AM
For proper alphabetical order, "cyclic redundancy check" should be moved after "current task".

Annotation 4; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:25:46 AM
I recommend that this be changed to, "The task that is being executed. Execution may include sending messages, status, transferring data, or transferring command data to or from the SCSI initiator port.

Annotation 5; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:28:06 AM
I recommend that this read, "data group: A sequence of data bytes, any pad bytes, and the four pCRC bytes transmitted during a DT DATA IN phase or a DT DATA OUT phase."

Page 32

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 10:31:15 AM
I recommend that this be changed to the following, "A signal notifying the SCSI device server or task manager of an event (see 4.13)."

Page 33

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 9:53:39 AM
I recommend changing "highest" to "fastest".

Page 34

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 10:15:31 AM
I recommend that this sentence be changed to, "The act of resuming a nexus to continue executing a task."

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 10:16:02 AM
The word "substantially" should be deleted.

Page 35

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 10:32:39 AM
I recommend that this be changed to the following, "A request to the initiator parallel interface agent to invoke a service (see 4.13)."

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 10:33:12 AM
I recommend that this be changed to the following, "A response from the SCSI device server or task manager in reply to an indication (see 4.13)."

Annotation 3; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 10:34:24 AM
The word. "match" should be changed to "matching".

Page 36

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 10:37:55 AM
"...from assertion edge..." should be changed to, "...from an assertion edge..."

Page 37

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 10:38:57 AM
"AAF" should be deleted as it is not used in the document.

Page 40

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 10:42:47 AM
Since there is only one tranceiver type defined in this standard, I recommend that the column "Tranceiver Type" be deleted and the table renamed. "LVD transciever speed support map."

Page 41

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 10:51:45 AM
The word "directly" should be deleted.

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:21:00 AM
This phrase should be, "...on the other end..."

Page 44

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:22:46 AM
I recommend that "...entity..." and "...entities..." be replaced with "...parameter..." and "...parameters..."

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:21:49 AM
entities

Page 45

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 11:00:00 AM
The extra "at" in this sentence should be deleted.

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:24:58 AM
I recommend that the phrase, "...ns while ST is 25 ns." be replaced with, "...ns while for ST it is 25 ns."

Annotation 3; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:26:37 AM
I'm unsure what this sentence is supposed to mean and recommend that it be clarified.

Page 47

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:28:33 AM
I recommend that this sentence be changed to, "A SCSI bus that supports paced transfers has driver and receiver functions required in addition to those used with synchronous transfers or asynchronous transfers."

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:30:14 AM
I think that, in most cases, the signals being clocked are aligned to the clock signals, and that this sentence should be changed to say that.

Page 51

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 1:15:58 PM
Isn't it possible for an initiator/target port to negotiate one set of elements as an initiator and another

as a target? I don't see any reason why these couldn't be different for each I_T nexus.

Page 59

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 1:43:20 PM
The phrase, "the target port shall not request tasks to be aborted for that SCSI initiator port..." should be changed to, "the target port shall abort any tasks for that SCSI initiator port..."

Page 65

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 7:54:04 AM
The terms "bad parity" and "parity error" are used in many places in the document. However, the closest these come to being defined is in 3.1.62 odd parity. I recommend that the following be included in the Definitions: "Parity error: where the number of assertions on the associated data byte plus the parity bit equal to an even number (e.g., 0, 2, 4, 6, or 8)." Then, "bad parity" should be replaced with "a parity error" (or a similar phrase using "parity error" instead of "bad parity") throughout the document.

Page 78

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 2:16:19 PM
I recommend that the last sentence of this paragraph be deleted as this standard does not define single-ended transceivers.

Page 97

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 2:38:51 PM
The term "SPI devices" is not defined in this document. Therefore, I recommendt that this be replace with, "device on the parallel SCSI bus."

Page 102

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/16/2002 2:45:54 PM
I recommend that, "Not previously defined." be changed to something like, "Not defined in a previous SCSI standard."

Page 116

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 6:00:09 AM
"SE" should be included in the Acronym list (as is "HE").

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 6:02:57 AM
This should be changed to, "Neither SE nor HVD is defined in this standard. For information on SE SCSI device implementation see the SCSI Parallel Interface-4 standard. For information on HVD SCSI device mplementation see the SCSI Parallel Interface-2 standard."

Page 149

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:37:02 AM
I recommend that the formatting of this list be adjusted.

Page 150

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:37:34 AM
I recommend that the formatting of this list be adjusted.

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:37:44 AM
I recommend that the formatting of this list be adjusted.

Page 151

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:39:47 AM
"cell" in "Tcell" n figures 66, 67, 69, 70 should be subscript.

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:38:19 AM
Tcel l

Annotation 3; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:38:22 AM
Tcel l

Page 165

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 8:02:21 AM
I recommend that these paragraphs be reworded to something like:

The SCSI device that won a normal arbitration shall assert both the BSY and SEL signals and wait at least one bus clear delay plus one bus settle delay before ending the NORMAL ARBITRATION phase.

The SCSI device that won a QAS shall assert the SEL signal and has wait at least one QAS arbitration delay before ending the QAS phase.

The SCSI device that won the arbitration shall identify itself as a SCSI target port by asserting the I/O signal.

Page 169

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:42:12 AM
This phrase should be, "When an information unit transfer agreement has..."

Page 170

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 8:34:09 AM
I recommend that the phrases, "If the nexus has been fully identified (i.e., an I_T_L_Q nexus has been established)..." and, "the nexus has been fully identified..." be replaced by, "If an I_T_L_Q nexus has been established..." (four places).

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 8:32:19 AM
If a nexus has been fully identified

Page 171

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 8:32:26 AM
If the nexus has been fully identified (i.e., an I_T_L_Q nexus has been established)

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 8:32:32 AM
If the nexus has been fully identified (i.e., an I_T_L_Q nexus has been established)

Page 172

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 8:56:14 AM
I think that this sentence is cumbersome. I recommend that it be changed to something like, "If the SCSI target port determines that a pad field is required, has completed the data field transfer of the current data group, the I/O signal is true (i.e., transfer to the SCSI initiator port), and the REQ signal is asserted, the SCSI target port shall:"

Page 173

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 8:57:05 AM

I think that this sentence is cumbersome. I recommend that it be changed to something like, "If the SCSI target port determines that a pad field is not required, has completed the data field transfer of the current data group, the I/O signal is true (i.e., transfer to the SCSI initiator port), and the REQ signal is negated, the SCSI target port shall:"

Page 177

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:43:37 AM
The list after, "Start of section C" should begin with a "1)".

Page 179

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:44:08 AM
The list after, "Start of section C" should begin with a "1)".

Page 190

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 9:46:49 AM
The wording here is obtuse. I recommend that these three paragraphs be replaced with something like:

Using the polynomial described above, the CRC calculated for 512 bytes containing 00h is: 55ADh, 190Ah.

Using the polynomial described above, the CRC calculated for 512 bytes containing FFh is: AB0Bh, FF6Ch.

Using the polynomial described above, the CRC calculated for 512 bytes containing values incrementing from 00h to 1Fh is: 7E8Ah, 9126h.

Page 205

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 10:04:05 AM
These two paragraphs describe a condition based on a value in a field that is described later. So, I recommend moving them to after Table 48 - TASK MANAGEMENT FUNCTIONS.

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 10:08:25 AM
I think this means, "Termination of a SPI L_Q/SPI command information unit pair by a SCSI target device shall have no effect on any other SPI L_Q/SPI command information unit pair except those effects caused by any task management functions contained within the last SPI L_Q/SPI command information unit pair." If I am correct, this should be changed.

Page 213

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 10:19:36 AM
This should be changed to, "The value in the IUCRC field shall be calculated using the algorithm defined in 11.3.

Page 214

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 10:19:57 AM
This should be changed to, "The value in the IUCRC field shall be calculated using the algorithm defined in 11.3.

Page 217

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 10:21:49 AM
This should be changed to, "The value in the IUCRC field shall be calculated using the algorithm defined in 11.3.

Page 218

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 11:01:21 AM
This is another obtuse paragraph. I thik that this is supposed to mean:

The SCSI initiator port provides a set of pointers for each send command service request received from an application client. The set of pointers for a unidirectional command consists of one pointer for the data (either data-in data or data-out data) and one pointer for the status. The set of pointers for a bidirectional command consists of one pointer for data-out data, one pointer for data-in data, and one pointer for status. When the set of pointers is for a task that is not active, the set is called the saved pointers for the task. When the set of pointers is for a task that is active, the set is called the active pointers for the task. When a task becomes active, the saved pointers for the task become the active pointers.

Page 224

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 11:13:12 AM
I recommend this sentence be changed to, "Identification is considered successful during a SCSI initiator port's initial connection or a physical reconnect when the SCSI target port detects no error during the transfer of the IDENTIFY message and an optional task attribute message in the MESSAGE OUT phase following the SELECTION phase."

Page 231

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 11:25:10 AM
I recommend changing this to, "...a tag not associated with a task in the task set,"

Page 234

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/17/2002 11:34:32 AM
This is an unclear sentence that should be replaced with something like, "On a physical reconnection, the ABORT TASK message causes the current task to be aborted if an I_T_L_Q nexus exists. If only an I_T_L nexus exists, but the SCSI target port is performing a physical reconnect for an I_T_L_Q nexus, then the current task is not aborted and the SCSI target port changes to the BUS FREE phase."

Page 260

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:41:50 AM
The subscript for the "N" in VN isn't very distinct in four places in tables A2 and A3.

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:40:02 AM
N

Annotation 3; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:40:07 AM
N

Annotation 4; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:40:09 AM
N

Page 269

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:43:40 AM
I think that this should be changed to, "A receiver determines..."

Page 274

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:46:02 AM

This should be changed to, "Implementation of SCSI bus fairness...", i.e., the word "the" should be deleted.

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:52:55 AM
There are several places in this annex where the phrases, "...need to..." and, "...needs to..." are used. I recommend that these be deleted. An example of a recommended replacement is: "When a SCSI device arbitrates for the SCSI bus..."

Annotation 3; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:57:41 AM
I recommend that, "...begin to disappear..." be replaced by, "...are released..."

Page 275
Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:54:27 AM
need

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:54:31 AM
needs

Annotation 3; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:54:40 AM
needs

Annotation 4; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:54:46 AM
needs

Annotation 5; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:54:56 AM
needs

Annotation 6; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:55:05 AM
needs

Annotation 7; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:59:38 AM
I recommend that a comma be added between "false" and "the".

Annotation 8; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:00:15 AM
I recommend that the comma be deleted between "time" and "to".

Annotation 9; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:58:48 AM
I recommend that, "...begin to disappear..." be replaced by, "...are released..."

Page 276
Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 6:55:11 AM
needs

Page 278
Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:01:49 AM
I recommend that, "...defined in the SCSI device's specification." be changed to "...are vendor specific."

Page 294
Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:06:06 AM
Later in this annex is a phrase, "...a coupling device called a balun...". If that clarification is necessary, it should be included here (where "balun" first appears).

Annotation 1; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:08:49 AM
'Balun" is used in many places earlier in this annex. If this clarification phrase is needed, it should be added where first used. One way or the other, the phrase "...a coupling device called a balun..." should be deleted here and replaced with "balun".

Annotation 2; Label: Maxtor Corporation, Mark Evans; Date: 10/21/2002 7:09:45 AM
The word "effectively" should be deleted.