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To: T10 Technical Committee
From: Bill Galloway
Subj: Response IU Format

Replace section with the following:

9.2.3.5 RESPONSE information unit

Table 61 defines the response IU. The RESPONSE IU is sent by a target port to deliver SCSI status (GOOD, CHECK CONDITION, etc.) and sense data, or to deliver SSP-specific status (illegal IU format, etc.).

Table 61. RESPONSE information unit

Byte	7	6	5	4	3	2	1	0
0				Reserved				
9								
10			Reserved				DATAPRES	
11				STATUS				
12				Reserved				
15								
16	msb			Sense Data List Length (n bytes)				
19								lsb
20	msb		Response Data List Length (m bytes)					
23								lsb
24				Response Data				
23+m								
24+m				Sense Data				
23+m+n								

[Editors Note: Correct red 23 above]

The DATAPRES field describes the format and content of the RESPONSE IU.

Table xx DATAPRES field

DATAPRES	Data Present	Description
00	NO_DATA	No data present
01	RESPONSE	Response data present
10	SENSE	Sense data present
11		Reserved

If the DATAPRES field is set to NO_DATA, then the STATUS field shall contain the status of a task that completes. See SAM-2 for a list of status codes. The SENSE DATA LIST LENGTH field and the RESPONSE DATA LIST LENGTH field shall be set to zero and shall be ignored by the initiator. The SENSE DATA field and the RESPONSE DATA field shall not be present.

If the DATAPRES field is set to RESPONSE, then the STATUS and the SENSE DATA LIST LENGTH field shall be set to zero and shall be ignored by the initiator. The SENSE DATA field shall not be present. The RESPONSE DATA LIST LENGTH field shall be set to four. Other lengths are reserved for future standardization. The RESPONSE DATA field defined in Table 62 shall be present. This field contains information describing certain protocol failures detected during processing of a request received by the target port.

RESPONSE DATA shall be present if the target port detects any of the conditions described by a non-zero RSP_CODE value.

RESPONSE DATA shall be present in each RESPONSE IU that is sent in response to a task management function IU. The information in the RSP_CODE field shall indicate the completion status of the task management function.

If the DATAPRES field is set to SENSE, then the STATUS field shall contain the status of a task that completes. See SAM-2 for a list of status codes. The RESPONSE DATA LIST LENGTH field shall be set to zero and shall be ignored by the initiator. The RESPONSE DATA field shall not be present. The SENSE DATA LIST LENGTH field shall be set to a non-zero value indicating the number of bytes in the SENSE DATA field. The SENSE DATA LIST LENGTH field shall not be larger than 1 000 and shall be a multiple of four. If the SENSE DATA field size is not a multiple of four, it shall be padded to make its size a multiple of four. The value of the pad bytes are vendor specific.

If the DATAPRES field is set to a reserved value, then the initiator shall provide link layer acknowledgement and discard the RESPONSE IU.

Insert current:

Table 62. RESPONSE DATA field

Table 63. RSP_CODE field

Reserved->zero
Padding
Sense