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Date: 21 August 1999
To: T10 Technical Committee
From: Ralph Weber, LSI Logic Alternate Member of T10
Subj: SAM-2 TASK SET FULL Clarifications

During the May General SCSI Working Group meeting I was asked to investigate the SAM-2 definition of the TASK SET FULL status. The results of this investigation and proposed changes were reviewed and enhanced by the July Working Group meeting. This proposal is the result of that work.

The problem is that the definition of the TASK SET FULL status (5.2) does not state whether it can be returned for untagged tasks. The following proposed changes reflect the majority sentiment of the July Working Group.

Old text:

> **TASK SET FULL.** This status shall be implemented if the logical unit supports the creation of tagged tasks (see 4.9). This status shall be returned when the logical unit receives a command and does not have enough resources to enter the associated task in the task set.

New text:

> **TASK SET FULL.** This status shall be implemented if the logical unit supports the creation of tagged tasks (see 4.9). <u>This status may be implemented if the logical unit does not support the creation of tagged tasks.</u> This status shall be returned when the logical unit receives a ~~command~~ <u>tagged task</u> and does not have enough resources to enter ~~the associated task~~ <u>it</u> in the task set. <u>If the logical unit receives an untagged task and does not have enough resources to enter it in the task set, the status returned shall be either TASK SET FULL or BUSY.</u>

New text minus strikeouts:

> **TASK SET FULL.** This status shall be implemented if the logical unit supports the creation of tagged tasks (see 4.9). <u>This status may be implemented if the logical unit does not support the creation of tagged tasks.</u> This status shall be returned when the logical unit receives a <u>tagged task</u> and does not have enough resources to enter <u>it</u> in the task set. <u>If the logical unit receives an untagged task and does not have enough resources to enter it in the task set, the status returned shall be either TASK SET FULL or BUSY.</u>

Note that the proposed changes are slightly dependent on the changes proposed 99-232. However, it probably is possible to make the proposed changes without making the changes proposed in 99-232.