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SAM and Simple Task Management

SAM today has a simple dichotomy: either the target supports tagged tasks or it doesn't. A third model, of support for tagged tasks with the SIMPLE task attributes, is proposed because it adds value to the desktop environment.

What's needed to support simple tagged tasks (a.k.a. simple task management)?

Simple Task Management

A SCSI-3 target that supports simple task management shall:

a) implement the behaviors described by SCSI-3 Primary Commands (SPC) for a control mode page (0A) value of one for the queue algorithm modifier field (unrestricted reordering),

b) implement the behaviors described by SPC when the QErr bit in the control mode page is set to one (task set cleared when ACA is cleared),

c) accept one untagged task at a time (the task is treated as if it has a task attribute of SIMPLE),

d) accept tagged tasks with a task attribute of SIMPLE,

e) reject tasks with a task attribute of ORDERED or HEAD OF QUEUE,

f) accept the CLEAR TASK SET and TARGET RESET task management functions,

g) reject the ABORT TASK, ABORT TASK SET and TERMINATE TASK task management functions, and

h) support the CLEAR ACA task management functions.

SAM Changes

Define simple task management model:

a) the only task management functions supported are CLEAR ACA, CLEAR TASK SET and TARGET RESET,

b) the only task attribute supported is SIMPLE,

c) the target behavior is constrained so QErr equals one and unrestricted reordering of the SIMPLE tasks is not just permitted but required