Dual Port and ACA

From: Charles Monia
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To: Members of X3T10

Subject: Dual Port and ACA (X3T10/94-___R0)
References (a) X3T9.2/93-041R2 SCSI-3 Changes for Dual Port Feature

Background:

In a reflector message regarding his dual port ECOs, Gerry Houlder stated that the behavior of a BUS DEVICE RESET or BUS DEVICE RESET OTHER PORT with respect to an ACA condition is a grey area. The purpose of this note is to request approval of an extension to reference (a) addressing this issue.

Proposal:

The committee's approval is requested to retain the following text now in clause 6.6.6 of SAM, revision 15:

"For a dual port target, the initiator may limit the effect of a hard reset to the tasks, auto contingent allegiance conditions and device reservations associated with the port from which the reset event or TARGET RESET was received (see the SPC standard). A hard reset in response to a TARGET RESET OTHER PORT task management function (see clause 7.6) is always limited to the referenced port. To execute a hard reset whose scope has been restricted in this manner, a target shall clear all tasks auto contingent allegiance conditions and device reservations associated with the port. All other tasks, device reservations and auto contingent allegiance conditions shall be unaffected. The target shall also reset any device operating modes associated with the designated port as described above. If MODE SELECT parameters allecting the other port are modified, unit attention shall be set as described in clause 6.6.5"

If this proposal is not approved, the text in the next revision will be modified as shown below:

"For a dual port target, the initiator may limit the effect of a hard reset to the tasks, ~~auto contingent allegiance conditions~~ and device reservations associated with the port from which the reset event or TARGET RESET was received (see the SPC standard). A hard reset in response to a TARGET RESET OTHER PORT task management function (see clause 7.6) is always limited to the referenced port. To execute a hard reset whose scope has been restricted in this manner, a target shall clear all tasks ~~auto contingent allegiance conditions~~ and device reservations associated with the port. All other tasks, device reservations ~~and auto contingent allegiance conditions~~ shall be unaffected. The target shall also reset any device operating modes associated with the designated port as described above. If MODE SELECT parameters allecting the other port are modified, unit attention shall be set as described in clause 6.6.5"