Date: 01/14/92   X3T9.2/92- 12

To: X3 T9.2 Committee (SCSI)

From: Jeff Williams (HP)

Subject: CA Clearing Commands

Section 6.6 of the Standard defines the clearing of CA as
follows:

> "The contingent allegiance condition shall be
> cleared upon the generation of a hard reset
> condition, or by an ABORT message, a BUS DEVICE
> RESET message, or any subsequent command for the
> I_T_x nexus."

The question is what to do with the command which cleared
the CA condition. There is very little said in the Standard
with regards to this command. Past SCSI experience would
indicate that we execute the command. Such a reference is
made with respect to Unit Attention condition (section 6.9):

> "If after generating the contingent allegiance
> condition for a pending unit attention condition,
> the next command received from the initiator on
> the logical unit is not REQUEST SENSE, then that
> command shall be performed and the unit attention
> condition shall be cleared for the initiator on
> the logical unit and the sense data lost (see
> 6.6)."

Note that the specific kind of command does not seem to
matter even though we would expect an unlinked IOP with a
REQUEST SENSE command. Must a target be capable of
executing any CA command or more importantly, any IOP which
may be a linked command? I could envision this as a poor
man's method of ECA. For example, CA followed by a linked
REQUEST SENSE, linked REASSIGN, and terminated with a WRITE
command.

The second question is what to do if the CA clearing command
is a tagged command. Section 6.8 quite clearly states that
the initial connection for a CA condition must be untagged,
but section 6.5.2 (incorrect initiator connection) does not
list this as an incorrect initiator connection. Either
section 6.5.2 should be modified to include this case, or a
tagged IOP should be allowed to clear the CA and be queued
as though the CA never existed.

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