Accredited Standards Committee
X3, Information Processing Systems

To: X3T10 Membership
From: Chris Burns
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Subject: Question on use of SEL during SCAM

I am trying to figure out whether or not a SCAM target or SCAM-2 master is supposed to assert SEL in response to SCAM selection by some other device.

In one document I've seen (Edward Gardner's Oct 11, 1993 memo proposing the SCAM protocol) both sections 3.2 and 4.3 state that both MSG and SEL should be asserted in responding to SCAM selection. The relevant lines from section 4.3 read as follows: "Level 2 SCAM master devices and SCAM slave devices that have not yet been assigned an ID recognize SCAM selection and assert SEL and MSG. After a variable delay (see below) they release MSG, then wait until MSG has been released by all devices, using wired-or glitch filtering. SCAM slave devices should release MSG quickly, perhaps never asserting it at all. SCAM master devices should wait a SCAM selection time before releasing MSG." The section goes on to describe how all devices should release SEL later in the SCAM selection process, then reassert SEL at the very end of SCAM selection.

My trouble is, the document I'm using as an "official" spec of the SCAM protocol is revision 15 of Annex B of the SCSI-3 Parallel Interface spec, and this doesn't explicitly talk about SEL getting asserted when devices recognize a SCAM selection in process. Section B.4.1 is the part of the document that addresses SCAM selection. It looks to me like the statement that devices should assert MSG and SEL upon recognizing SCAM selection was inadvertently dropped.

Anyway, when the SCAM-2 master sees some other device initiate SCAM, should it assert SEL right away, or not?

Thanks in advance to whoever can clear this up for me.

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Proposed modification change
...BSY signal false is detected.
to
..BSY signal false is detected and shall responde by asserting the SEL and MSG signals.