

X3T9.2/87-27  
Mar. 6, 1987

To: X3T9.2 Committee (SCSI)

From: Gerry Houlder MPI/CDC

Subject: Clarification of Invalid LUN reporting

The recent discussions held at various working group sessions about invalid LUN reporting were mostly about how to piece together the various places that addressed invalid LUN's. I think it would be better to bring all of this together in one spot, where a reader can see all of the nuances of handling an invalid LUN at one time.

A logical place to do this is section 6.2.2 which describes the Logical Unit Number. I would like to propose that the following paragraphs be added to that section:

"A valid LUN is any LUN that can be supported by the target. A valid LUN that is not currently connected will report a NOT READY sense key for REQUEST SENSE command and a Peripheral Device Type other than logical unit not present (7Fh) for the INQUIRY command. An invalid LUN is one that cannot be supported by the target. An invalid LUN will result in logical unit not present (7Fh) Peripheral Device Type for the INQUIRY command and an ILLEGAL REQUEST sense key with an INVALID LUN error code for the REQUEST SENSE command.

When a target receives an INQUIRY or REQUEST SENSE command with an invalid LUN, it shall respond as described in the preceding paragraph and end the command with GOOD status. When a target receives any other command with an invalid LUN, it shall request and accept the command bytes, end the command with CHECK CONDITION status, and set up the ILLEGAL REQUEST sense key and INVALID LUN error code for a subsequent REQUEST SENSE command."

Also, since part of the Logical Unit Number explanation is in the IDENTIFY message section, a reference from that section to section 6.2.2 would be appropriate.

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