Maxtor

X3T9.2/88-122

To: X3T9.2, SCSI Group
From: Skip Jones
Subject: Change Definition vs. Inquiry Inconsistency
Date: 9/20/88

This proposal recommends that the SCSI-2, Rev. 5 document be modified so that consistency exists between the INQUIRY command and the CHANGE DEFINITION command.

The INQUIRY command is used by the host to determine, among other things, the "operating definition" of the the Target/LUN. This information is available in the "ANSI-approved version" field.

In the ANSI-approved version field, a value of
0 is for products developed prior to the approval of SCSI-1;
1 is for products that claim compliance with SCSI-1;
2 is for products that claim compliance with SCSI-2, once approved.

The CHANGE DEFINITION command is used by the host to select the target/LUN operating definition. The CHANGE DEFINITION and INQUIRY commands are complementary with regards to SCSI *versions*.

In the Definition Parameter field, a value of
0 is for Operating Definition;
1 is for SCSI X3.131-1986 Operating Definition;
2 is for CCS Operating Definition;
3 is for SCSI-2 X3.131-198x Operating Definition;
4-3F is reserved;
40-7F is Vendor Unique

The host determines if the target can support more than one version, or a particular version by sending the target a CHANGE DEFINITION command and detecting which ILLEGAL REQUEST SENSE CODE, if any, is returned by the target.

There are two problems that need to be resolved:

PROBLEM #1

Table 7-3, page 7-3 has a definition parameter value of 00h defined as *OPERATING DEFINITION*.

This does not make sense.

The 00h value should be described such that it can be understood. I do not offer any such description since I have no idea what it is supposed to represent.

PROBLEM #2

Table 7-3 has a definition parameter value of 02h defined as a *CCS OPERATING DEFINITION* and values 40-7Fh as a *VENDOR UNIQUE OPERATING DEFINITION*.

The problem is that the INQUIRY command does <u>not</u> have corresponding values to represent a CCS OPERATING DEFINITION and VENDOR UNIQUE OPERATING DEFINITIONS.

Either the INQUIRY command should be changed to include CCS and VENDOR UNIQUE OPERATING DEFINITION parameter values, or the CHANGE DEFINITION command should be changed to remove the CCS and VENDOR UNIQUE OPERATING DEFINITION parameter values.

The values and their meanings should be identical between the two commands.

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