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To: John Lohmeyer
              NCITS Technical Committee T10
From: Bob Snively
Subject: Make CT and TTD obsolete

1 Introduction to problem

The CONTINUE TASK (CT) and TARGET TRANSFER DISABLE TTD) link
control messages defined by SCSI-2 and later by SPI-3 are functionally obso-
lete, since the special case where they were previously used is now accommodat-
ed by improved buffering algorithms. The use of tagged queueing with its many
advantages makes the TTD and CT functions less useful even on a theoretical
basis. In addition, the information in the standard may be too incomplete to al-
low interoperable implementations of TTD and CT. For these reasons, the CT
and TTD messages should be made obsolete in SPI-3. In addition, the TRANDIS
bit should be made obsolete in the INQUIRY data, described in SPC-2.

2 Changes to SPI-3 to obsolete CT and TTD.

Section 11.6.2 of SPI-3, table 46, containing the list of link messages, shall have
the message name for the row with the Code 12h changed to Obsolete.

Section 11.6.2 of SPI-3, table 46, containing the list of link messages, shall have
the message name for the row with the Code 13h changed to Obsolete.

Section 11.6.2.1 of SPI-3 should be rewritten as follows:

11.6.2.1 Obsolete code 12h (formerly CONTINUE TASK)

The link control message with the code 12h (formerly CONTINUE TASK) is obso-
lete and shall not be used by initiators compliant with this standard.

Section 11.6.2.15 of SPI-3 should be rewritten as follows:

11.6.2.15 Obsolete code 13h (formerly TARGET TRANSFER DISABLE)

The link control message with the code 13h (formerly TARGET TRANSFER DIS-
ABLE) is obsolete and shall not be used by initiators compliant with this stan-
dard.

The first paragraph of section 11.7.2 of SPI-3 should be rewritten as follows:

11.7.2 Incorrect initiator connection

An incorrect initiator connection occurs on a reselection if an initiator asserts the
ATN signal during the MESSAGE IN phase that follows the RESELECTION phase
and does not send an ABORT TASK SET, ABORT TASK, TARGET RESET,

CLEAR TASK SET, DISCONNECT, or LOGICAL UNIT RESET, or CONTINUE TASK message as one of the messages within the corresponding MESSAGE OUT phase.

3 Changes to SPC-2 to obsolete CT and TTD

In section 7.4.1 of SPC-2, the entry at bit 2, byte 7 is changed from "Tran-Dis" to "obsolete".

In section 7.4.2 of SPC-2, the following paragraph is deleted.

A transfer disable (TRANDIS) bit of one indicates that the target supports the CON-TINUE TASK and TARGET TRANSFER DISABLE messages. A TRANDIS bit of zero indicates that the device does not support one or both of these messages.

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