

Date: Jan. 09, 2002

To: T10 Committee (SCSI)

From: George Penokie (IBM/Tivoli)

Subject: Duplicate Tag ASC Correction in SPI-4

In SPI-4 section 16.4.1 and 17.3 the following statements are incorrect:

From 16.4.1

If the task manager checks the tag value and receives a tag that is currently in use for the I\_T\_L nexus, then it shall abort all tasks for the SCSI initiator device and the associated logical unit and shall return CHECK CONDITION status for the task that caused the overlapped tag. The sense key shall be set to ABORTED COMMAND and the additional sense code shall be set to OVERLAPPED COMMANDS ATTEMPTED with the additional sense code qualifier set to the value of the duplicate tag (see 17.3).

and

From 17.3

A task manager that detects an incorrect initiator connection shall abort all tasks for the SCSI initiator port and the associated logical unit and shall return CHECK CONDITION status for the task that caused the incorrect initiator connection. The sense key shall be set to ABORTED COMMAND and the additional sense code shall be set to OVERLAPPED COMMANDS ATTEMPTED with the additional sense code qualifier set to the value of the duplicate tag (see 16.4).

The error is that the ASC OVERLAPPED COMMANDS ATTEMPTED does not allow a tag value to be set in it's ASCQ. The ASC that does require a tag value is the TAGGED OVERLAPPED COMMANDS ASC.

One way to fix this is to change the ASC to the correct one as follows:

In 16.4.1:

If the task manager checks the tag value and receives a tag that is currently in use for the I\_T\_L nexus, then it shall abort all tasks for the SCSI initiator device and the associated logical unit and shall return CHECK CONDITION status for the task that caused the overlapped tag. The sense key shall be set to ABORTED COMMAND and the additional sense code shall be set to OVERLAPPED COMMANDS ATTEMPTED (see 17.3).

In 17.3:

A task manager that detects an incorrect initiator connection shall abort all tasks for the SCSI initiator port and the associated logical unit and shall return CHECK CONDITION status for the task that caused the incorrect initiator connection. The sense key shall be set to ABORTED COMMAND and the additional sense code shall be set to OVERLAPPED COMMANDS ATTEMPTED (see 16.4).

A second way to fix this is to have both ASCs in the standard to the correct one as follows:

In 16.4.1:

If the task manager checks the tag value and receives a tag that is currently in use for the I\_T\_L nexus, then it shall abort all tasks for the SCSI initiator device and the associated logical unit and shall return CHECK CONDITION status for the task that caused the overlapped tag. The sense key shall be set to ABORTED COMMAND and the additional sense code shall be set to TAGGED OVERLAPPED COMMANDS with the additional sense code qualifier set to the value of the duplicate tag or to

OVERLAPPED COMMANDS ATTEMPTED (see 17.3).

In 17.3:

A task manager that detects an incorrect initiator connection shall abort all tasks for the SCSI initiator port and the associated logical unit and shall return CHECK CONDITION status for the task that caused the incorrect initiator connection. The sense key shall be set to ABORTED COMMAND and the additional sense code shall be set to TAGGED OVERLAPPED COMMANDS with the additional sense code qualifier set to the value of the duplicate tag or to OVERLAPPED COMMANDS ATTEMPTED (see 16.4).