To: X3T10 Committee (SCSI)

From: George Penokie (IBM)

Subject: TTD Wording Changes for SPI-2

0.0.1 TARGET TRANSFER DISABLE

The TARGET TRANSFER DISABLE message is sent from an initiator role agent to a target role agent to request that subsequent reconnections for data transfer be done by the initiator role agent instead of the target role agent. The target role agent might reconnect for other purposes, but shall not generate any data in service or data out services after a target role agent reconnection. SCSI devices that implement this message shall also implement the CONTINUE TASK message.

This message shall be sent as the last message of the series of consecutive message out services of an initial connection. The initiator role agent shall not attempt to start a SDTR nor a WDTR negotiation in the same initial connection as a target transfer disable message is sent. The target role agent may continue the task, including any data out services on the initial connection, until the target role agent would normally disconnect, but the target role agent shall not reconnect to transfer data. That is, the target role agent shall not generate a data in service on the initial connection and the target role agent shall not generate any data in or data out services on any subsequent target role agent reconnection for the task.

When the target role agent is ready to transfer data for a disconnected task for which a TARGET TRANSFER DISABLE message has been sent, the target role agent shall reconnect to the initiator role agent for the task (via a reselection service and consecutive message in services containing an IDENTIFY message, and an optional SIMPLE TASK message), send a DISCONNECT message, and, if the initiator role agent does not respond with a MESSAGE REJECT message, generate a bus free service. This connection serves to notify the initiator role agent that the task is ready for data transfer. If the initiator role agent rejects the DISCONNECT message, the target role agent may generate a data in or data out service; otherwise, the initiator role agent may reconnect to the task as described in the CONTINUE TASK message to perform the data transfer.

Initiator role agents should avoid sending the TARGET TRANSFER DISABLE message to target role agents that have not implemented this message. Such target role agents may not respond as described in this section. An application client can determine whether a device server implements this message by examining the (TRANDIS) bit in the standard INQUIRY data (see SCSI-3 Primary Commands Standard). The application client shall inform the initiator role agent to use the CONTINE TASK message by issuing a TARGET TRANSFER DISABLE link control function in the send SCSI command service.