1. Revision History
Revision 0: Posted to the T10 web site on 13 August 2004.
Revision 1: Modified per discussion in ADI WG teleconference on 19 August 2004.

2. Overview
In order to implement more transparent bridging, it is necessary to remove the restriction that only a SCSI Command IU specifying a data-in command can have a non-zero value in the First Burst Length field. Section 7.2.1 of ADT Revision 12 places such a restriction on initiators. If this restriction were removed, an initiator bridging from a different protocol would not have to decode the Command Descriptor Block to determine direction. The initiator could assume data-in, prepare buffer space, set First Burst Length accordingly, and send the IU. This allows for simpler bridging and provides for vendor specific operational codes between the target port and the bridged port regardless of the initiator port. The following proposal changes ADT to allow such behavior.

3. Proposal

7.1.2 SCSI Command information unit

When the SCSI Command IU specifies a data-in command, the FIRST BURST LENGTH field shall contain a value indicating the amount of buffer space prepared in the initiator port for the first SCSI Data IU and requesting the transfer from the target port of one or more SCSI Data IUs having a total data length not to exceed First Burst Length. This has the same effect as a SCSI Transfer Ready IU with a BUFFER OFFSET field of zero and a BURST LENGTH field of FIRST BURST LENGTH. When the SCSI Command IU specifies a non-data or data-out command, the FIRST BURST LENGTH field shall be set to zero.

An initiator port may put a non-zero value in the FIRST BURST LENGTH field of any SCSI Command IU. The target port shall ignore the value in the FIRST BURST LENGTH field for non-data or data-out commands.

Note: Putting a non-zero value in the FIRST BURST LENGTH field of any SCSI Command IU leaves the determination of data direction with the device server.

7.1.3 SCSI Task Management information unit
Table 19 defines the SCSI Task Management IU. The SCSI Task Management IU is sent by an initiator port to request that a task management function be processed by a task manager in a logical unit.