TO: T10 Membership
FROM: Paul A. Suhler, Certance
DATE: 17 October 2003
SUBJECT: T10/03-318r0, ADT Pending Recovery Port State

Background

At the 8 – 9 September 2003 ADI working group meeting, the group agreed upon the need for an additional port state. Without a new state, a port that receives a bad frame with frame number n and then receives a good frame with frame number n cannot indicate that it expected to receive an Initiate Recovery IU. See the meeting minutes, T10/03-295r0, discussion item d, clause 4.7.1.3.

Proposed Change

The new state will be called P3:Pending Recovery.

1. Make the following global change: Renumber all existing occurrences of P3 – P5 to P4 – P6.

2. Make the following change to Clause 4.3, ADT Port States: Add the following row to Table 1:

State	Description
P3:Pending Recovery	A port shall enter this state when it has detected an error during the reception of a frame and has transmitted a NAK information unit.

3. Add the highlighted sentence to the last paragraph of clause 4.7.1.3:

> When a port detects an error on a frame it receives it shall send a NAK IU to the other port with appropriate status so that the port that sent the frame in error can initiate recovery steps. The FRAME NUMBER field of the NAK IU shall be set to the Expected Frame Number counter value (see 4.6.3) when the error was detected. The Expected Frame Number counter shall not be adjusted. The port shall enter the P3:Pending Recovery state, unless different behavior for specific cases is specified elsewhere in this standard.