

To: INCITS T10 Committee
From: Paul Entzel, Quantum
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Document: T10/04-089r1
Subject: ADT resource limitation error recovery

1 Revision History

Revision 0:
Posted to the T10 web site 8 March 2004.

Revision 1:
Modifications made after discussion at March T10 meeting. See 04-080.

2 General

The method described in ADT for recovery from Resource Limitation errors could cause out-of-order delivery. This proposal changes the recovery for this type of error as follows:

1. If a link service frame is received when a resource limitation is in effect, the port shall NAK the frame and ignore it. The receipt of the frame shall cause no state change to be made by the port.
2. If any other frame type is received when a resource limitation is in effect, the port shall treat the error as a recoverable type and take the action described in subclause 4.6.2.6.

3 Proposal

Replace subclause 4.6.2.5 with the following test:

When a port detects a resource limitation error on a frame it receives, it should send a NAK IU with the appropriate status code (see table 14), and

- a) If the received frame is a Link Service protocol IU, the PR bit on the NAK IU shall be set to zero. The port shall discard the Link Service IU, or
- b) If the received frame is any other type, the port shall consider the error recoverable and perform the actions described in 4.6.2.6.

If the port is unable to send an acknowledgment IU due to a resource limitation, it shall discard the frame.