To: T10 SAS Protocol working group From: Bill Martin Emulex Subject: SAS2r14 late letter ballot comment on resetting of AWT

## **Revision 0:**

## **Problem:**

In 7.13.3, in discussing the resetting of the AWT timer, note 66 states that "connection responses that are only from or may be from expander phys are not included."; however, 8.2.2.3.2 states:

If this state creates a pending Tx Open message from one of the following:

a) a Transmit Frame request;

b) a Retry Open (No Destination) message;

c) a Retry Open (Open Timeout Occurred) message; or

d) if the CONTINUE AWT bit is set to zero in the Protocol-specific Port mode page (see 10.2.7.4), then a Retry Open (Retry) message,

then this state shall:

a) set the pathway blocked count argument in the Tx Open message to zero; and b) set the arbitration wait time argument in the Tx Open message to zero or a vendor-specific value less than 8000h (see 7.13.3).

These two clauses contradict each other. I believe that item b and c from above should be added to the following list in 8.2.2.3.2:

If a pending Tx Open message was created as the result of this state receiving one of the following:

a) a Retry Open (Opened By Destination) message;

b) a Retry Open (Opened By Other) message;

c) a Retry Open (Collided) message;

d) a Retry Open (Pathway Blocked) message; or

e) if the CONTINUE AWT bit is set to one in the Protocol-specific Port mode page (see 10.2.7.4), then a Retry Open (Retry) message,

then this state shall set the arbitration wait time argument in the Tx Open message to be the value from the Arbitration Wait Time timer created as a result of the Retry Open message.

## Solution:

Change the two portions of text from above to the following:

If this state creates a pending Tx Open message from one of the following:

a) a Transmit Frame request; or

b) if the CONTINUE AWT bit is set to zero in the Protocol-specific Port mode page (see 10.2.7.4), then a Retry Open (Retry) message,

then this state shall:

a) set the pathway blocked count argument in the Tx Open message to zero; and

b) set the arbitration wait time argument in the Tx Open message to zero or a vendor-specific value less than 8000h (see 7.13.3).

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If a pending Tx Open message was created as the result of this state receiving one of the following:

a) a Retry Open (Opened By Destination) message;

b) a Retry Open (Opened By Other) message;

c) a Retry Open (Collided) message;

d) a Retry Open (Pathway Blocked) message;

e) a Retry Open (No Destination) message;

f) a Retry Open (Open Timeout Occurred) message; or

g) if the CONTINUE AWT bit is set to one in the Protocol-specific Port mode page (see 10.2.7.4), then a Retry Open (Retry) message,

then this state shall set the arbitration wait time argument in the Tx Open message to be the value from the Arbitration Wait Time timer created as a result of the Retry Open message.