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To: T10 Serial Attached SCSI PHY Working Group
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Date: 21-24 June 2002
Subject: [SAS connection: Behavior when receiving a BREAK primitive](#) ~~while in an SAS connection~~

Introduction

The wording in the latest revision of the SAS draft does not specify the behavior of an SSP device when a connection is broken. This proposal clarifies the behavior. The following are the changes in SAS-r00b required to implement this proposal. Revision 2-3 of this proposal includes input from the SAS Working Group [teleconference meeting, 18-24 June 2002](#).

7.11.5 Abandoning a connection request

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[When a port sourcing a BREAK is attached to an expander port, the BREAK response to the source port is generated by the expander port to which the source port is attached, not the target.](#) If the expander device has sent a connection request to the destination, it shall also send BREAK to the destination. If the expander device has not sent a connection request to the destination, it shall not send BREAK to the destination. The expander device shall send BREAK back to the originating port after it has ensured that an open response will not occur. Figure 51 shows [an example of](#) BREAK usage.

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7.11.6 Breaking an open connection

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[add the following below the table]

[In addition to a BREAK primitive sequence, a connection may be broken as the result of an error or disconnection at the PHY layer.](#)

[In addition to the actions described in this subclause and in 7.11.5, the following shall be the responses by an SSP device to a broken connection.](#)

- a) [Received frames having no CRC error may be considered valid regardless of whether an ACK has been transmitted in response to the frame prior to the broken connection.](#)
- b) [Transmitted frames for which an ACK has been received prior to a broken connection shall be considered successfully transmitted.](#)
- c) [Transmitted frames for which an ACK or NAK has not been received prior to a broken connection shall be considered not successfully transmitted.](#)