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To: T10 Serial Attached SCSI Protocol Working Group
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Subject: SAS “(RESERVED)” primitive clarification

Introduction

There are five primitives (AIP, CHANGE, OPEN_REJECT, DONE, and NAK) that have versions with “(RESERVED)” appended to their names in the SASr02b draft standard. The following proposal clarifies the definition for four of these and their implementations. The OPEN_REJECT variants are addressed in 02-461r0 SAS Spare Primitives. Table and other references in this proposal are to SAS-r02b.

7.1.4.1 AIP (Arbitration in progress)

In Table 23 – AIP primitives: for the description of AIP (RESERVED), replace “Reserved” with, “The expander device has accepted the connection request. The source port shall set its open timeout timer back to its initial value when it receives an AIP (RESERVED) (see 7.12.2.2). The RESERVED attribute may be replaced in a future standard.”

7.1.4.4 CHANGE

Modify the second paragraph to be, “CHANGE (RESERVED 0), CHANGE (RESERVED 1), and CHANGE (RESERVED 2) are reserved and shall be broadcast by expander devices the same as CHANGE. Receiving devices shall process CHANGE (RESERVED 0), CHANGE (RESERVED 1), and CHANGE (RESERVED 2) as if they are ALIGNs.”

7.1.5.3 DONE

In Table 49 – DONE primitives: for the description of DONE (RESERVED), replace “Reserved” with, “The transmitter has finished transmitting all frames. The RESERVED attribute may be replaced in a future standard.”

7.1.5.5 NAK (Negative acknowledgement)

In Table 50 – NAK primitives: for the descriptions of NAK (RESERVED 0), NAK (RESERVED 1), and NAK (RESERVED 2), replace “Reserved” with, “The frame was discarded. The RESERVED attribute may be replaced in a future standard.”