

ENDL

TEXAS

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To: T10 Technical Committee

From: Ralph O. Weber

Subject: Adding Reserved Bytes to EXTENDED COPY Parameter Data

The SNIA (Storage Networking Industry Association) Backup Working Group is in the process of proposing several corrections and enhancements to the EXTENDED COPY command. Of immediate concern is the lack of sufficient reserved bytes in the parameter data header. Additional proposals will be forthcoming, but all concerned believe that the problem in the header should be corrected as quickly as possible.

Therefore, it is proposed that SPC-2 be modified to add 4 reserved bytes starting at byte 4 of the EXTENDED COPY parameter list shown in Table 23 (SPC-2 revision 15). After the change is made, the initial several bytes of the table will appear as follows.

Table 23 — EXTENDED COPY parameter list

Bit Byte	7	6	5	4	3	2	1	0	
0	LIST IDENTIFIER								
1	Reserved		STR	NRCR	Reserved		PRIORITY		
2	(MSB)	TARGET DESCRIPTOR LIST LENGTH (n-12)							
3								(LSB)	
4		Reserved							
7									
8	(MSB)	SEGMENT DESCRIPTOR LIST LENGTH (m-k+1)							
11								(LSB)	
12	(MSB)	INLINE DATA LENGTH							
15								(LSB)	
	Target descriptor(s)								
16		Target descriptor 0							
47									
	the remainder of the table is unchanged								

The decision to insert the reserved bytes where the SEGMENT DESCRIPTOR LIST LENGTH field currently appears is not accidental. If the initiator puts zeros in the reserved bytes, older implementations will "see" a zero length segment descriptor list and do nothing. To further this intention, the following note needed to be added following the table.

NOTE: Unexpected results may occur when an initiator fails to zero the reserved bytes in this parameter list. Copy managers should verify that the reserved bytes 4 through 7 contain zeros.