From: Steven Fairchild, HP (steve.Fairchild@hp.com)
Date: 2 May 2005
Subject: SES 2, Element Index Addition

The current SES 2 specification (T10/1559-D Revision 11) added an Element Index field that made the Additional Element Status descriptor incompatible with previous versions of the SES 2 specification. To allow software to detect the format change and interpret the information properly, a bit should be added to indicate that the Element Index is present.

The ELEMENT INDEX PRESENT (EIP) bit should be added to the Additional Element Status descriptor (table 25) as bit 4 in byte 0.

The text to be added is shown in blue.

Table 25 – Additional Element Status descriptor

Byte\Bit	7	6	5	4	3	2	1	0
0	INVALID	Reserved		EIP (1b)	PROTOCOL IDENTIFIER (6h)			
1	ADDITIONAL ELEMENT STATUS DESCRIPTOR LENGTH (n - 1)							
2	Reserved							
3	ELEMENT INDEX							
4	Protocol-specific information							
n								

The ELEMENT INDEX PRESENT (EIP) bit indicates that 2 bytes are present in the Additional Element Status descriptor header between the ADDITIONAL ELEMENT STATUS DESCRIPTOR LENGTH field and the protocol-specific information. An EIP bit set to zero indicates that the Additional Element Status descriptor follows the format defined in table 25a. An EIP bit set to one indicates that the Additional Element Status descriptor follows the format defined in table 25. The EIP bit should be set to one.

Table 25a – Additional Element Status descriptor when EIP = 0

Byte\Bit	7	6	5	4	3	2	1	0
0	INVALID	Reserved		EIP (0b)	PROTOCOL IDENTIFIER (6h)			
1	ADDITIONAL ELEMENT STATUS DESCRIPTOR LENGTH (n - 1)							
2	Protocol-specific information							
n								