memorandum

T10/05-334r0

To	From	Subject	Date
INCITS T10 Committee	Michael Banther, HP	SSC-3 Reinstate definition of Transfer Length field for WRITE FILEMARKS	8 September 2005

Revision History

Revision 0 – Initial document.

Related documents

SCSI Primary Commands - 3 (SPC-3). Date: 2005/05/04, Rev: 23, Status: Publication, Project: 1416-D, File: spc3r23.pdf.

SCSI Stream Commands - 3 (SSC-3). Date: 2004/08/12, Rev: 01b, Status: Development, Project: 1611-D, File: ssc3r01b.pdf.

SCSI Stream Commands - 3 (SSC-3). Date: 2005/02/10, Rev: 01c, Status: Development, Project: 1611-D, File: ssc3r01c.pdf.

SCSI Stream Commands - 3 (SSC-3). Date: 2005/09/06, Rev: 01d, Status: Development, Project: 1611-D, File: ssc3r01d.pdf.

Background

The transition from SSC3r01b to SSC3r01c deleted the text that explains how the Transfer Length field of the WRITE FILEMARKS command affects the number of filemarks written. Rob Elliott first noted the problem in SSC3r01c. Almost certainly it occurred when the editor removes all references to setmarks.

This proposal adds back in that portion of the deleted text that applies to filemarks only. If affects SSC3r01d, clauses 5.7 and 6.9. It also changes the name of the TRANSFER LENGTH field to accurately reflect its purpose.

Changes to draft standard

5.7 WRITE FILEMARKS(16) command

Table 18 — WRITE FILEMARKS(16) command

Bit / Byte	7	6	5	4	3	2	1	0
0	OPERATION CODE (80h)							
1	Reserved				FCS	LCS	Obsolete	IMMED
2	Reserved							
3	PARTITION							
4	(MSB)							
5								
6								
7				LOGICAL OBJECT IDENTIFIER				
8								
9								
10								
11								(LSB)
12	(MSB)							
13				~~TRANSFER LENGTH~~ FILEMARK COUNT				
14								(LSB)
15	CONTROL							

A last command in sequence (LCS) bit of one specifies this command is the last command in a tagged write sequence. An LCS bit of zero specifies this command is not the last command in a tagged write sequence.

The FILEMARK COUNT field specifies the number of filemarks to be written. If the FILEMARK COUNT field is set to zero, the current logical position shall not be changed. It shall not be considered an error if the FILEMARK COUNT field is set to zero.

> NOTE: The FILEMARK COUNT field takes the place of the TRANSFER LENGTH field normally used by medium access commands that move data from the Data-Out Buffer to the device server (see SPC-3).

6.9 WRITE FILEMARKS(6) command

Table 29 — WRITE FILEMARKS(6) command

Bit Byte	7	6	5	4	3	2	1	0
0	OPERATION CODE (10h)							
1	Reserved						Obsolete	IMMED
2	(MSB)							
3				~~TRANSFER LENGTH~~ FILEMARK COUNT				
4								(LSB)
5	CONTROL							

The FILEMARK COUNT field specifies the number of filemarks to be written. If the FILEMARK COUNT field is set to zero, the current logical position shall not be changed. It shall not be considered an error if the FILEMARK COUNT field is set to zero.

> NOTE: The FILEMARK COUNT field takes the place of the TRANSFER LENGTH field normally used by medium access commands that move data from the Data-Out Buffer to the device server (see SPC-3).