

X3T9.2/93-038 R0

Third-Party Commands in SCSI-3 SPC

A Working Proposal
X3T9.2/93-038 R0

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184

93-038

Premises

- ▶ Existing third-party commands are basically good
 - ◆ Block to stream
 - ◆ Stream to block
 - ◆ Block to block
- ▶ Device addressing is the problem to solve
- ▶ Try Dal's idea of a THIRD-PARTY SETUP command
- ▶ Changes as little as possible

125

What about old baggage?

- ▶ Reserve COPY functions codes 00h thru 04h
 - Compatible with SCSI-2
 - Segment descriptors do not fit SCSI-3

- ▶ Obsolete COPY function codes 05h thru 09h
 - Used in approved document 90-048R7
 - Still do not fit SCSI-2

 - ◆ Reserve these COPY function codes too
 - ◆ Ignore this aspect of 90-048R7

186

THIRD-PARTY SETUP Command Format

Byte	Bit	7	6	5	4	3	2	1	0
0		Operation code (..h)							
1		(MSB)							
2		Parameter list length							
3		(LSB)							
4		Control							

187

THIRD-PARTY SETUP Parameter List

Byte	Bit	7	6	5	4	3	2	1	0
0		Third-party descriptor ID							
1	(MSB)	Source SCSI identifier							
8									
9	(MSB)	Source SCSI LUN							
16									
17	(MSB)	Destination SCSI identifier							
24									
25	(MSB)	Destination SCSI LUN							
32									

188

Things that do not change

- ▶ COMPARE, COPY, and COPY AND VERIFY commands
- ▶ COPY parameter list

189

Sample Segment Descriptor

- ▶ Based on current 00h / 01h segment descriptor

Byte	Bit	7	6	5	4	3	2	1	0	
0		Reserved			Reserved	Cat	Reserved			
1		Third-party descriptor ID								
2		(MSB)	Stream device block length							_____
3										(LSB)
4		(MSB)	Block device number of blocks							_____
7										(LSB)
8		(MSB)	Block device logical block address							_____
11										(LSB)

001