To: T10 Technical Committee
From: Rob Elliott, HP (elliott@hp.com)
Date: 4 November 2002
Subject: 02-471r1 SSC-2 Rewind on logical unit reset

Revision History
Revision 0 (2 November 2002) First revision
Revision 1 (4 November 2002) Incorporated comments from SSC-2 WG.

Related Documents
ssc2r08d - SCSI Stream Commands - 2 revision 8d

Overview
Some tape drives rewind automatically on reset, while others stay in place. There is no standard means to determine the behavior of a tape drive.

A field in a mode page is needed to indicate which behavior the tape drive employs (and possibly set its behavior, if the drive offers the field as changeable).

Suggested Changes
Add a field to the Device Configuration mode page for this.

8.3.3 Device Configuration mode page

The Device Configuration mode page (see table 1) is used to specify the appropriate sequential-access device configuration.

Table 1 — Device Configuration mode page

Bit Byte	7	6	5	4	3	2	1	0
0	PS	Reserved	PAGE CODE (10h)					
1	PAGE LENGTH (0Eh)							
2	Reserved							
3	ACTIVE PARTITION							
4	(MSB)	WRITE BUFFER FULL RATIO						
5	READ BUFFER FULL RATIO							(LSB)
6	(MSB)	WRITE DELAY TIME						
7								(LSB)
8	DBR	BIS	RSMK	AVC	SOCF		RBO	REW
9	GAP SIZE							
10	EOD DEFINED			EEG	SEW	SWP	BAML	BAM
11	(MSB)	BUFFER SIZE AT EARLY WARNING						
13								(LSB)
14	SELECT DATA COMPRESSION ALGORITHM							
15	Reserved			REWIND ON RESET		ASOCWP	PERSWP	PRMWP

The REWIND ON RESET field is defined by table 2. The REWIND ON RESET field, if implemented, shall be persistent across logical unit resets.

Table 2 — Rewind on reset field definition

Code	Description
00b	Vendor-specific
01b	The logical unit shall position to the beginning of the default data partition (BOP 0) on logical unit reset.
10b	The logical unit shall maintain its position on logical unit reset.
11b	Reserved