

memorandum



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To
INCITS T10 Committee

From
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Subject
DTD Status Log Page

Date
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Introduction

The Automation/Drive Interface – Commands (ADC) draft standard defines a DTD Status log page (see ADCr06, 6.1.2). HP believes that the parameters in this log page provide content of significant interest to management and diagnostic applications. Management and diagnostic applications currently used with tape drives limit their communication to the sequential access device server, typically addressed at LUN 0. In order to make the log parameters available to these applications, HP proposes incorporating the DTD Status log page into SSC-3.

Proposed Changes to SSC-3

8.2.1 Log parameters overview

This subclause defines the descriptors and pages for log parameters used with sequential-access devices.

The log page codes for sequential-access devices are defined in table 49.

Table 49 – Log page codes

Page Code	Description	Reference
00h	Supported log pages	SPC-3
01h	Buffer Overrun/Underrun log page	SPC-3
02h	Write Error Counter log page	SPC-3
03h	Read Error Counter log page (read)	SPC-3
04h	Read Reverse Error Counter log page	SPC-3
05h	Verify Error Counter log page	SPC-3
06h	Non-Medium Error log page	SPC-3
07h	Last <i>n</i> Error Events log page	SPC-3
08h	Format Status log page	SPC-3
09h - 0Ah	Reserved	
0Bh	Last <i>n</i> Deferred Error Events log page	SPC-3
0Ch	Sequential-Access Device log page	8.2.2
0Dh	Temperature log page	SPC-3
0Eh	Start-Stop Cycle Counter log page	SPC-3
0Fh	Application Client log page	SPC-3
10h	Self-test Results log page	SPC-3
11h	DTD Status log page	ADC ^a
12h - 2Dh	Reserved	
2Eh	TapeAlert log page	8.2.3
2Fh	Informational Exceptions log page	SPC-3
30h - 3Fh	Vendor-specific (does not require page format)	

a. Although mandatory for ADC devices, this page is optional for SSC devices.



Proposed Changes to SPC-3

C.4 Log Page Codes

Table C.10 is a numerical order listing of the log page codes.

Table C.10 — Log Page Codes

Log Page Code	Device Column key													Log Page Name			
	D	T	L	P	W	R	O	M	A	E	B	K	V		F		
	D																DIRECT ACCESS BLOCK DEVICE (SBC-2)
	.	T															SEQUENTIAL ACCESS DEVICE (SSC-2)
	.		L														PRINTER DEVICE (SSC)
	.			P													PROCESSOR DEVICE (SPC-2)
	.				W												WRITE ONCE BLOCK DEVICE (SBC)
	.					R											CD/DVD DEVICE (MMC-2)
	.						O										OPTICAL MEMORY BLOCK DEVICE (SBC)
	.							M									MEDIA CHANGER DEVICE (SMC-2)
	.								A								STORAGE ARRAY DEVICE (SCC-2)
	.									E							ENCLOSURE SERVICES DEVICE (SES)
	.										B						SIMPLIFIED DIRECT-ACCESS DEVICE (RBC)
	.											K					OPTICAL CARD READER/WRIER DEVICE (OCRW)
	.												V				AUTOMATION/DRIVE INTERFACE (ADC)
	.													F			OBJECT-BASED STORAGE (OSD)
	.																
Log Page Code	D	T	L	P	W	R	O	M	A	E	B	K	V	F	Log Page Name		
00h	D	T	L	P	W	R	O	M	A	E		K	V	F	Supported Log Pages		
01h	D	T	L	P	W	R	O		A			K		F	Buffer Over-Run/Under-Run		
02h	D	T			W	R	O					K			Write Error Counter		
03h	D	T			W	R	O					K			Read Error Counter		
04h		T													Read Reverse Error Counter		
05h	D	T			W	R	O					K			Verify Error Counter		
06h	D	T	L	P	W	R	O	M	A	E		K		F	Non-Medium Error		
07h	D	T	L	P	W	R	O	M	A	E		K		F	Last n Error Events		
08h	D	T			W		O								Format Status		
09h							O								Reserved to the MS59 Std. (contact AllM C21 comm.)		
0Ah							O								Reserved to the MS59 Std. (contact AllM C21 comm.)		
0Bh	D	T	L	P	W	R	O	M	A	E				F	Last n Deferred Error Events		
0Ch		T													Sequential-Access Device		
0Dh	D	T	L	P	W	R	O	M	A	E					Temperature		
0Eh	D	T	L	P	W	R	O	M	A	E					Start-Stop Cycle counter		
0Fh	D	T	L	P	W	R	O	M	A	E					Application Client		
10h	D	T	L	P	W	R	O	M	A	E					Self-Test Results		
11h		T											V		DTD Status		
12h													V		TapeAlert Response		
13h													V		Requested Recovery		
14h													V		Device Statistics		
18h	D	T	L	P	W	R	O	M	A	E		K			Protocol Specific Port		
2Eh		T						M							TapeAlert		
2Fh	D	T	L	P	W	R	O	M	A	E		K			Informational Exceptions		
30h - 3Fh															Vendor specific (does not require page format)		

ALL CODES NOT SHOWN ARE RESERVED.