
SPC Support for Partial Loading & Unloading

Summary of 99-347r3.pdf

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for

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Information the way you want it.

Summary

This is an updated version of the presentation which Gene Milligan gave at the January 2000 SCSI Protocol Working Group. The ASCQs for ASC 3Ah have been changed from 01h and 11h to 03h and 04h.

Definitions

Add the following definition:

Medium Auxiliary Memory: An auxiliary memory residing on a medium that is accessible to the device server (e.g., a tape cartridge). Medium auxiliary memory may be non-volatile and independent of the main function of the device server.

Autoload Control

Add a three-bit field named "AUTOLOAD MODE" to the Control Mode Page:

Table 158 -- Control Mode Page

Bit	7	6	5	4	3	2	1	0
0	PS	Reserved	PAGE CODE (0Ah)					
1	PAGE LENGTH (0Ah)							
2	TST			Reserved			GLTSD	RECL
3	QUEUE ALGORITHM MODIFIER				Reserved	QErr		DQue
4	Reserved	RAC	Reserved		SWP	RAERP	UAAERP	EAERP
5	Reserved					AUTOLOAD MODE		
6	MSB	READY AER HOLDOFF PERIOD						LSB
7								
8	MSB	BUSY TIMEOUT PERIOD						LSB
9								
10	MSB	EXTENDED SELF-TEST COMPLETION TIME						LSB
11								

Autoload Control, cont'd

Add the following paragraph and table immediately before the paragraph describing the READY AER HOLDOFF PERIOD field. (This will require renumbering of subsequent tables.)

The AUTOLOAD MODE field specifies the action to be taken by a removable medium device server when a medium is inserted. For devices other than removable medium devices, this field is reserved.

Table 162 -- Autoload mode field

Value	Definition
000b	Medium shall be loaded for full access.
001b	Medium shall be loaded for medium auxiliary memory access only.
010b	Medium shall not be loaded.
011b - 111b	Reserved

Status Reporting

Add the following lines to Tables 113 and C.1, "ASC and ASCQ Assignments":

ASC	ASCQ	D	T	L	P	W	R	S	O	M	C	A	E	B	K	Description
3Ah	03h	D	T			W	R		O	M				B		MEDIUM NOT PRESENT - LOADABLE
3Ah	04h	D	T			W	R		O	M				B		MEDIUM NOT PRESENT - MEDIUM AUXILIARY MEMORY ACCESSIBLE
3Fh	10h	D	T			W	R		O	M				B		MEDIUM LOADABLE
3Fh	11h	D	T			W	R		O	M				B		MEDIUM AUXILIARY MEMORY ACCESSIBLE