

Date: July 8, 1997

To: T10 Committee (SCSI)

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Subject: Warning/PFA ASC Reporting Selection

1 Overview

With the addition of the WARNING ASC to the FAILURE PREDICTION THRESHOLD EXCEEDED ASC that can be reported with the informational exceptions control page some systems are confused as to the difference between the two ASCs. This is because not all have implemented the warning part of this page which was added late in the standardization process. To resolve this problem we propose the following.

2 ASC reporting selection control

We propose adding two bits to the informational exceptions control page; one to enable/disable the reporting of the FAILURE PREDICTION THRESHOLD EXCEEDED ASC (DTEASC) and the other to enable/disable the reporting of the WARNING ASC (DWASC) as described below.

Table 1 - Informational exceptions control page

Bit Byte	7	6	5	4	3	2	1	0
0	PS	RESERVED	PAGE CODE (1Ch)					
1	PAGE LENGTH (0AH)							
2	PERF	RESERVED			DEXCPT	TEST	RESERVED	LOGERR
3	RESERVED		DTEASC	DWASC	MRIE			
4	MSB							
5								
6	INTERVAL TIMER							
7	LSB							
8	MSB							
9								
10	REPORT COUNT							
11	LSB							

A disable exception control (DEXCPT) bit of zero indicates information exception operations shall be enabled. The reporting of information exception conditions when the DEXCPT bit is set to zero is determined from the METHOD OF REPORTING INFORMATIONAL EXCEPTIONS field. A DEXCPT bit of one indicates the target shall disable all information exception operations. The METHOD OF REPORTING INFORMATIONAL EXCEPTIONS field, DTEASC, and DWASC are ignored when DEXCPT is set to one.

The disable FAILURE PREDICTION THRESHOLD EXCEEDED ASC (DTEASC) of zero indicates the FAILURE PREDICTION THRESHOLD EXCEEDED ASC reporting shall be enabled. A DTEASC bit of one indicates the target shall disable reporting of the FAILURE PREDICTION THRESHOLD EXCEEDED ASC.

The disable WARNING ASC (DWASC) of zero indicates the WARNING ASC reporting shall be enabled. A DWASC bit of one indicates the target shall disable reporting of the WARNING ASC.