To: Membership of X3T10

From: Edward Lappin
          Exabyte Corporation
          tedl@exabyte.com

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Subject: Addition of Write without Readback Mode field for SSC SCSI-3.

Background

During the SSC/SMC working group held on January 12, we continued our discussion on Write Dammit.
We concluded that the best way to handle it would be to have a write without retries to write the data.
Thinking about this some more, I determined what we really need is a write without readback since it is
already possible to specify no retries. This function has been implemented in a variety of vendor-unique
ways.

Proposal

I am requesting that we change the Read-write error recovery page as follows. The changes in the
existing text and tables are marked with double-underline and change bars.

Table 35 - Read-write error recovery page

Bit Byte	7	6	5	4	3	2	1	0
0	PS	Rsvd	Page Code (01h)					
1	Page length (0Ah)							
2	Reserved		TB	Rsvd	EER	PER	DTE	DCR
3	Read retry count							
4	Reserved							
5	Reserved							
6	Reserved							
7	Reserved							NRB
8	Write retry count							
9	Reserved							
10	Reserved							
11	Reserved							
NOTE - The parameters in this page also apply to verify operations.								

A No Readback check (NRB) bit of zero indicates that the logical unit should verify the data when writing,
assuming that the logical unit is capable of readback checking. A NRB bit of one indicates that the logical
unit shall ignore any readback errors that occur during writing.

The write retry count specifies the number of times that the logical unit should attempt its recovery
algorithm during a write operation before an unrecoverable error is reported. A write retry count of zero
indicates that the logical unit shall not use its recovery algorithm during write operations. The write retry
count is ignored if the NRB bit is set to one.