# ENDL texas

Date: 10 July 2003 To: T10 Technical Committee From: Ralph O. Weber Subject: PERSISTENT RESERVE OUT SPEC\_I\_PT additional parameter data

## **Revision History**

- r0 Initial proposal
- r1 Eliminate the proposed change option that produces redundant length fields in the access controls data format (see r0) and describe only the change that produces a backwards incompatibility in the PERSISTENT RESERVE OUT parameter data format.

## Discussion

## Warning: the changes contained in this proposal are not backwards compatible.

The definition of the PERSISTENT RESERVE OUT additional parameter data when the SPEC\_I\_PT bit is set to one incorporates the use of TransportID values based on definitions established by the Access Controls proposal.

Owing to incomplete the SPC-3 revisions available at the time 02-065r2 (the proposal containing the SPEC\_I\_PT bit definition) was prepared, the required usage of TransportIDs was not followed. The following table shows usage of TransportIDs envisioned by the Access Controls proposal.

Bit Byte	7	6	5	4	3	2	1	0		
0	PAGE CODE (00h)									
1	Reserved									
2	(MSB)									
3				PAGE LENGTH	(LSB)					
4	NOCNCL	Reserved								
5		ACCESS IDENTIFIER TYPE								
6	(MSB)	ACCESS IDENTIFIER LENGTH (m-7)								
7				ACCESS IDEN	(LSB)					
8										
m				ACCESS IDEN						

## Table x — Grant/Revoke ACE page format

The ACCESS IDENTIFIER TYPE field specifies the type of access identifier present in the ACCESS IDENTIFIER field, one option of which is TransportID. This construct need not be replicated in the PERSISTENT RESERVE OUT additional parameter data used when the SPEC\_I\_PT bit is set to one because only TransportIDs are allowed.

The ACCESS IDENTIFIER LENGTH field specifies the number of bytes in the ACCESS IDENTIFIER field. The construct should have been replicated in the PERSISTENT RESERVE OUT additional parameter data used when the SPEC\_I\_PT bit is set to one but was not. Inclusion of a length field is necessary to maintain the practice of having SCSI parameter data be self describing, a practice that dates back to at least SCSI-2 (almost twenty years).

## Proposed Changes

**Change 1 [PERSISTENT RESERVE OUT additional parameter data]:** The following changes are proposed for 6.12.3 (PERSISTENT RESERVE OUT parameter list). Warning: these changes are not backwards compatible.

Bit Byte	7	6	5	4	3	2	1	0				
24												
27		TRANSPORTID PARAMETER DATA LENGTH (n - 27)										
	TransportIDs list											
28	First TRANSPORTID LENGTH											
31		**backward incompatible field**										
<del>28</del> 32	First TransportID											
				:								
i i+3		Last TRANSPORTID LENGTH **backward incompatible field**										
i+4 n	Last TransportID											

#### Table 107 — PERSISTENT RESERVE OUT specify initiator ports SPEC\_I\_PT additional parameter data

The TRANSPORTID PARAMETER DATA LENGTH field specifies the number of bytes of TransportIDs TransportID information that follows.

The command shall be terminated with a CHECK CONDITION status and the sense key set to ILLEGAL REQUEST:

- a) If the value in the parameter list length field in the CDB does not include all of the additional parameter list bytes specified by the TRANSPORTID PARAMETER DATA LENGTH field; or
- b) If the value in the TRANSPORTID PARAMETER DATA LENGTH field results in the truncation of a TransportID.

Each TRANSPORTID LENGTH field specifies the number of bytes in the TransportID immediately following it in the parameter data. Each TransportID length shall be at least 24 and shall be a multiple of four.

The format of a TransportID is specified in 7.5.4.