From:Jim Hafner, IBMTo:Membership NCITS T10Date:January 12, 2000Subject:Request for Access Control ASC/ASCQ codes

The Access Controls in SPC proposal (T10/99-245) contains requirements for additional ASC/ASCQ codes. This proposal requests specific assignment of those codes.

Table 1 shows the author's preferred choices which includes the addition of a new ASC.

ASC	ASCQ	Name	Function
2Eh	00h	ACCESS DENIED	Initiator is not sufficiently autho- rized to make the request.
2Eh	01h	ACCESS DENIED - INITIA- TOR NOT ENROLLED	Initiator has not sent an ACCESS ID ENROLL service action.
2Eh	02h	ACCESS DENIED - INITIA- TOR NOT AUTHORIZED	A enrolled initiator has access permissions insufficient for the requested command
2Eh	03h	ACCESS DENIED - INVALID MANAGE ACL KEY	The Manage ACL Key value is does not match the Manage ACL Key maintained at the device server
55h	05h	INSUFFICIENT ACCESS CONTROL RESOURCES	The device server has exhausted its resources for access control

 TABLE 1.
 Access Control Additional Sense Codes and Qualifiers (author's preferred choices - new ASC)

An alternative proposal which removes the need for an additional ASC by subsuming the ASC under an existing code (COMMAND PHASE ERROR 4Ah) is shown in Table 2. Though conceptually correct, COM-MAND PHASE ERROR is significantly less descriptive than ACCESS DENIED which is the reason this is not the author's preferred choice.

These ASC/ASCQ would be applicable to all device models. Both proposals use the existing ASC value 55h for "Insufficient resources".

Adoption of either proposal will require appropriate modifications to Table 113 of SPC-2 (rev 14) and Annex C. The "Function" columns of the enclosed tables are descriptive and should be suppressed when modifying that document.

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ASC	ASCQ	Name	Function
4Ah	01h	ACCESS DENIED - INITIA- TOR NOT ENROLLED	Initiator has not sent an ACCESS ID ENROLL service action.
4Ah	02h	ACCESS DENIED - INITIA- TOR NOT AUTHORIZED	A enrolled initiator has access permissions insufficient for the requested command
4Ah	03h	ACCESS DENIED - INVALID MANAGE ACL KEY	The Manage ACL Key value is does not match the Manage ACL Key maintained at the device server
55h	05h	INSUFFICIENT ACCESS CONTROL RESOURCES	The device server has exhausted its resources for access control

 TABLE 2.
 Access Control Additional Sense Codes and Qualifiers (alternate choice - no additional ASC).