ADC Proposal

Target Port Groups Commands

Introduction

HP expects to provide asymmetric logical unit access to the Sequential Access logical unit and the Automation Drive logical unit in its Ultrium tape drive products. Asymmetric logical unit access requires support of the REPORT TARGET PORT GROUPS command by the Automation Drive logical unit. It also may require support of the SET TARGET PORT GROUPS command by the Automation Drive logical unit depending on the type of access management implemented.

SPC3r12 explains asymmetric logical unit access and the requirements it places on a target device.

HP would like to add optional support of the REPORT TARGET PORT GROUPS and SET TARGET PORT GROUPS commands to the command set for Automation Drive device servers.

5 Summary of commands for automation drive interface devices

The command set for automation drive interface devices shall be as shown in table 5. Commands specified as mandatory in table 5 shall be implemented if the command set is supported.

Table 5 — Command set for automation drive interface

Command	Required	Reference	Notes
INQUIRY	M	SPC-2	
LOAD UNLOAD	M	SSC	2
LOG SELECT	O	SPC-2	
LOG SENSE	M	SPC-2	
MODE SELECT	M	SPC-2	
MODE SENSE	M	SPC-2	
READ ATTRIBUTE	M	SPC-3	2
READ BUFFER	O	SSC	
RECEIVE DIAGNOSTIC RESULTS	O	SPC-2	
REPORT DENISTY SUPPORT	M	SSC	3
REPORT LUNS	M	SPC-2	
REPORT SUPPORTED OPERATION CODES	M	SPC-3	
REQUEST SENSE	M	SPC-2	
SEND DIAGNOSTICS	M	SPC-2	1
TEST UNIT READY	M	SPC-2	2, 4
WRITE ATTRIBUTE	O	SPC-3	2
WRITE BUFFER	O	SPC-2	

1) Only self test shall be mandatory.
2) These commands are subject to the readiness of the removable medium, such that the logical unit is able to accept these identified medium-access commands without returning CHECK CONDITION status. Other commands may be subject to readiness of the removable medium due to vendor unique features.
3) Same as note 2 above, expect only when the MEDIA bit is set.
4) TEST UNIT READY indicates the readiness of the removable medium, not the ADC device server. The ADC device server does not have a Not Ready state.

Detailed Changes to Draft Technical Standard

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MODE SENSE	M	SPC-2	
READ ATTRIBUTE	M	SPC-3	2
READ BUFFER	O	SSC	
RECEIVE DIAGNOSTIC RESULTS	O	SPC-2	
REPORT DENISTY SUPPORT	M	SSC	3
REPORT LUNS	M	SPC-2	
REPORT SUPPORTED OPERATION CODES	M	SPC-3	
REPORT TARGET PORT GROUPS	O	SPC-3	
REQUEST SENSE	M	SPC-2	
SEND DIAGNOSTICS	M	SPC-2	1
SET TARGET PORT GROUPS	O	SPC-3	
TEST UNIT READY	M	SPC-2	2, 4
WRITE ATTRIBUTE	O	SPC-3	2
WRITE BUFFER	O	SPC-2	

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