Date: October 31, 2002

To: T10 Committee (SCSI)

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Subject: Target Mode Pages W-LUN

1 Overview

The Protocol-Specific Port mode page is being used to return port information for ports other than the port used to communicate to a logical unit. In other words to report infromation on all or part of the port within a target device. The only effective way to get target information is by using well known logical units. This proposal defines a W-LUN that returns mode pages.

2 Well known logical units

2.1 Model for well known logical units

Well known logical units are addressed using the well known logical unit addressing method of extended logical unit addressing (see SAM-2). Each well known logical unit has a well known logical unit number (W-LUN) as shown in table 1.

Table 1 — Well known logical unit numbers

W-LUN	Description	Reference
00h	Reserved	
01h	REPORT LUNS well known logical unit	2.2
02h	ACCESS CONTROLS well known logical unit	9.3
03h	See proposal 394	
04h	TARGET MODE PAGES	
03h-FFh	Reserved	

If a SCSI target device receives a W-LUN and that W-LUN is not exist, a task manager shall follow the SCSI rules for selection of invalid logical units (see SAM-2).

If a well known logical unit is supported within a SCSI target device then that logical unit shall support all the commands defined for it.

Access to well known logical units shall not be affected by access controls.

2.2 TARGET MODE PAGES well known logical unit

The TARGET MODE PAGES well known logical unit shall only process the commands listed in table 2. If a command is received by the TARGET MODE PAGES well know logical unit that is not listed in table 2 the device server shall return CHECK CONDITION status with the sense key set to ILLEGAL REQUEST and an additional sense code of INVALID COMMAND OPERATION CODE.

Table 2 — Commands for the TARGET MODE PAGES well known logical unit

Command name	Operation code	Type	Reference
INQUIRY	12h	M	7.4
MODE SELECT (10)	55h	M	x.x
MODE SENSE (10)	5Ah	M	x.x
REQUEST SENSE	03h	M	7.24
TEST UNIT READY	00h	M	7.26
Key: M = Command implementation is mandatory.			

The TARGET MODE PAGES well known logical unit shall support the Protocol Specific Port mode page (see x.x.x) and may support other mode pages with parameters that apply to the target device.