memorandum

T10/07-184r0

To	From	Subject	Date
INCITS T10 Committee	Curtis Ballard, HP Michael Banther, HP Rob Elliott, HP	Request for Security Protocol: Data Encryption Configuration	16 April, 2007

Revision History

Revision 0 – Initial document.

Related Documents

spc4r09 – SCSI Primary Commands

adc2r07c – Automation/Drive Interface Commands

ssc3r03b – SCSI Stream Commands

Background

The SSC-3 working group has accepted proposals for a Tape Data Encryption security protocol which is assigned to protocol number 20h. When an encryption capable device is installed in a medium changer the medium changer may need to provide a management interface for the encryption capabilities in the drive. Supporting this management interface requires encryption capable devices with an ADI interface to provide a security protocol that allows the medium changer to manage the encryption functionality in the device securely.

This proposal requests a new security protocol code for a Data Encryption Configuration security protocol which may be used to provide encryption configuration pages for any device which implements encryption using the SECURITY PROTOCOL IN and SECURITY PROTOCOL OUT commands. The pages supported by the new protocol may be command set specific.

In the proposed changes that follow, new text appears in blue, deleted text appears in red strikeout.

Proposed Changes to SPC-4

Changes to clause 6.29.1:

The SECURITY PROTOCOL field (see table 186) specifies which security protocol is being used.

Table 186 – SECURITY PROTOCOL field in SECURITY PROTOCOL IN command

CODE	Description	Reference
00h	Security protocol information	6.29.2
01h – 06h	Defined by the TCG	3.1.132
07h – 1Fh	Reserved	
20h	Tape Data Encryption	SSC-3
21h	Data Encryption Configuration	TBD
22h – EDh	Reserved	
EEh	Authentication in Host Attachments of Transient Storage Devices	IEEE P1667
EFH	ATA Device Server Password Security	TBD
F0h – FFh	Vendor Specific	