



ParanoiaFS

An in-line hardware tape encryption unit that requires no system or software changes and can be used on both stand alone and library tape drives.

- Allows a SCSI tape drive to be connected to a fibre channel SAN for secure backup
- Unique interlaced dual-DES and dual-DES3 modes
- Platform independent
- Desk top or rack mount
- *On the fly* tape encryption
- GUI configuration software
- Transparent to operating system
- Dual key user entry plus hardware key
- LVD, S/E or HVD wide SCSI tape interface
- Fibre channel host interface
- Up to 52 MB/sec sustained encryption rate



Why encrypt data on tape?

Modern systems are well protected against external intrusion by a large number of specialist appliances and software; internal intrusion is defended against by access control, audit systems and by only giving people access to information they need. To ensure the data can be recovered in the event of a disaster, system malfunction or even human error data needs to be backed up and kept at a place away from the system.

Most systems use tape as the media of choice for this operation. Once written to tape however the data is completely unprotected—no access control, passwords or audit trail is involved with the data. When the backup job runs it needs access to all the data areas in order to do the job and a part of any good backup software is a security device to ensure that unauthorised users cannot use this access as a “back door” to the system.

To ensure this valuable data (it must be important or else why is it backed up?) cannot be accessed or modified when on tape the Paranoia2 range uses 3DES² encryption to ensure it remains secure, confidential and the integrity is assured.

Specifications

Interfaces

SCSI LVD

Host Connection	SFP
Tape connection	68 way MicroD
Burst rate	80 Mbytes/sec
Sustained rate	52 Mbytes/sec

SCSI HVD

Host Connection	SFP
Tape connection	68 way MicroD
Burst rate	40 Mbytes/sec
Sustained rate	37 Mbytes/sec

ParanoiaFS

The PARANOIAFS is part the second generation in the range of tape encryption units designed to allow data being written to tape to be encrypted and decrypted to DES or triple DES standard *on the fly*. PARANOIAFS is designed to allow a standard SCSI tape to connect to a fibre channel infrastructure to produce secure encrypted tapes. It is platform independent and needs no changes to either hardware or software on the host system. Each PARANOIAFS unit has its own encryption key produced from two separate parts; the user enters their own key(s) using the supplied GUI program or via a standard dumb terminal, and this is used with a customer unique internal code chip to produce the final key.

ParanoiaFS

Parasoft

The Paranoia unit has a number of possible configurations and to make use easier each unit comes supplied with Parasoft GUI program to configure and control the unit more easily. This program runs under Windows 95 and above.

Part No	Description
1061-24	ParanoiaFS FC host interface & LVD/SE tape interface unit in 2U desk top chassis with LCD status display
1061-25	ParanoiaFS FC host interface & LVD/SE tape interface unit in 2U rack mount chassis with LCD status display
1061-27	ParanoiaFS FC host interface & LVD/SE tape interface in 1U rack mount chassis
1062-24	ParanoiaFS FC host interface & HVD tape interface unit in 2U desk top chassis with LCD status display
1062-25	ParanoiaFS FC host interface & HVD tape interface unit in 2U rack mount chassis with LCD status display
1062-27	ParanoiaFS FC host interface & HVD tape interface unit in 1U rack mount chassis

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