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# Paranoia<sup>2</sup>

Data Encryption Device

Turbo Start Guide

Version 1.1.0



**DISUK Limited**  
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## Pre-Requisites:

- Paranoia2 pack which includes:
  - 1 x Paranoia2 unit
  - 2 x rack mounting bracket
  - 1 x 2m SCSI cable
  - 2 x SCSI terminator (LVD or HVD)
  - 1 x Serial cable
  - 1 x USB to serial cable
  - 1 x Spare key chip
  - 1 x Power cable
  - 1 x Manual
  - 1 x Parasoft installation CD
- A Windows based PC with a CD-ROM drive and either a serial or USB port
- Physical access to the Paranoia2 unit from the Windows based PC
- Sufficient access rights on the Windows PC to allow software installation
- \*\*\* MAKE A NOTE OF THE PARANOIA2 SERIAL NUMBER IN THE SPACE PROVIDED ON THE ENCLOSED WORKSHEET \*\*\*

## Pre-Installation:

Before installing the Paranoia2 into your environment perform the following steps. This will ensure that your current backup procedure works correctly and you are working within a stable operating environment:

- The Paranoia2 device is not operating system version specific however, depending on the host operating system, you should reboot the server to ensure any automatically downloaded patches and drivers are applied to the system. This is particularly relevant to systems with an automatic update function e.g. Microsoft Windows
- Perform a test backup and restore to ensure the tape hardware and backup software are working correctly
- When complete eject any tapes from the tape device
- Power down the host
- Power down the tape device

## Paranoia2 Installation:

- For rack installation locate the Paranoia2 in the rack utilising the supplied rack mounting brackets, adjusting to fit the rack depth. Due to rack manufacturer variations, rack mounting bolts are not supplied
  - For desktop use all rack mounting brackets should be removed from the Paranoia2
  - Locate the cable that connects the host / server to the tape device. Disconnect this cable from the tape device and connect it to one of the Paranoia2 ports labelled SCSI to Host
  - Connect the supplied 2m SCSI cable from the Paranoia2 port labelled SCSI to Tape to the tape device
  - On the Paranoia2, the second SCSI to Host port must be terminated using the supplied SCSI terminator or used to daisy chain additional devices without data encryption
  - Use the second SCSI terminator (supplied) to terminate the tape device.
  - Power up the tape device
  - When the tape device has completed its power on self test routines, power up the Paranoia2. When the Paranoia2 power on self tests have completed information about the attached tape drive will be displayed
  - When the Paranoia2 has completed its power on self test routines, power up the host
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## Software Installation:

The Parasoft GUI enables configuration of the Paranoia2 device. The software runs on Microsoft Windows and may be installed on a Windows server or client located within the vicinity of the Paranoia2 device

- Place the Parasoft GUI CD into your CD-ROM drive
  - In Windows click 'Start', click 'Run' and type d:\parasoftsetup.exe (where 'd' is the drive letter of your CD-ROM drive)
  - Follow the on-screen instructions to install the software
  - You will now find a Parasoft icon on your Windows desktop
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## Configuring the Paranoia2:

- If your PC has a serial port, connect the serial cable (supplied) from a free serial port on your PC to the serial port on the front of the Paranoia2 unit
- If your PC *does not* have a serial port then connect the USB-to-serial cable (supplied) from a free USB port on your PC, to the serial port on the front of the Paranoia2 unit. You may need to install drivers for the USB-to-serial cable – if so follow the instructions included in the USB-to-serial cable pack.
- Double-click the Parasoft icon on your Windows desktop – the software will scan for Paranoia2 devices
- Click the Set Password button
- Enter an access password of eight characters or more, verify the password – this password is to allow access to the Paranoia2 unit for configuration purposes
- Click the Set Encryption Key button
- From the drop down list; select the Encryption Mode required. The mode selected determines the length and number of Encryption Keys required:

Encryption	Key Length
<sup>1</sup> ECB Single Key	8*
<sup>1</sup> CBC Single Key	16*
<sup>1</sup> OFB Single Key	16*
<sup>1</sup> CFB Single Key	16*
<sup>1</sup> ECB Triple Key	24*
<sup>2</sup> CBC Triple Key	32*
<sup>2</sup> OFB Triple Key	32*
<sup>2</sup> CFB Triple Key	32*
<sup>3</sup> CBC Extended Key	2 x 24
<sup>3</sup> OFB Extended Key	2 x 24
<sup>3</sup> CFB Extended Key	2 x 24

1 – Included for backward compatibility

2 – Recommended for greater security

3 – Recommended for highest throughput

\* 2nd key optional

- Enter an Encryption Key – the Encryption Mode determines key length required from 8 characters to 32 characters
  - \*\*\* MAKE A NOTE OF THE ENCRYPTION KEY(S) USED IN THE SPACE PROVIDED ON THE ENCLOSED WORKSHEET \*\*\*
  - Click the Set Secure button – the button will now be outlined in green and all data written via the Paranoia2 will now be encrypted.
  - In a multi-Paranoia environment you may wish to visually identify each Paranoia2 device. This can be achieved using the '*Set Paranoia Front Panel Text*'. Type up to 20 characters in the space provided and click the OK button.
  - Padlock icons on the top line of the Paranoia2 LCD indicate whether the device is in secure or un-secure mode. Secure mode is indicated by closed padlock icons and un-secure mode by open padlock icons.
  - When the Paranoia2 has been configured the serial cable can be removed
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## **Important Notes:**

- When the Paranoia2 device is in secure mode, media created or written before the Paranoia2 device was installed will not be recognized by your system and your backup software may suggest that the media should be initialised. To read previously written media set the Paranoia2 unit to un-secure mode using the Parasoft GUI configuration software





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