

SECURITY SOLUTIONS: Q3



Safe data encryption:

Q3 encrypts your data without changing your current hardware, processes or procedures - keeping your data completely safe should loss or theft occur. In the UK, data protection regulations are being enforced. Keep your business safe and legal.

Data loss is a major IT concern. Loss of records is significantly on the increase and lost or stolen tapes containing data is one of the main sources. Organisations that recklessly or deliberately commit breaches under the Data Protection Act can now be fined by Britain's privacy watchdog. Nationwide was hit by an almost £1 million fine for losing a laptop. Security blunders are now frequent media headlines. Don't let your business be next....

Patients' Details Lost In Latest Data Fiasco

Updated:11:29, Friday January 11, 2008

Thousands of confidential records belonging to NHS patients have gone missing in the latest data scandal to hit the Government.



Breaches in nine NHS trusts

Nine NHS trusts are now known to have lost data that was stored on either CDs or memory sticks.

One CD lost by an east London hospital trust contained the names and addresses of thousands of children.

The trusts admitted breaching strict data protection rules, despite receiving a recent warning from the NHS chief executive over their data-handling responsibilities.

PM Sorry As Millions Face Fraud Threat

Updated:22:04, Wednesday November 21, 2007

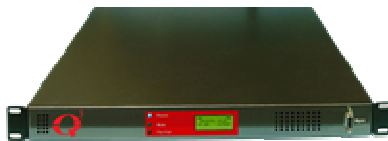
The prime minister has apologised to Parliament and the public, saying there is no excuse for the loss of the confidential personal details of nearly half the population.

Chancellor HMRC Data Loss Statement

Sky News Political Staff

Updated:17:16, Monday December 17, 2007

Chancellor of the Exchequer Alistair Darling has made a statement about an interim report into the loss of the personal data of 25 million people by HM Revenue and Customs.



Encryption is the only way to truly secure back up data. Many believe that the process of encryption is tedious, costing and slows down the network and back up procedures. This is no longer the case. Q3 is a hardware storage encryption device that fits into your environment seamlessly and causes little to no effect on your network or back up procedures. Q3 is the answer to your strong security challenges.

Secures your Back Up Data

Q3 provides complete security for back up tapes without affecting performance. It is the simplest, least intrusive high security encryption device available. Installation takes inly minutes and key management is strong, yet simple. The appliance sits between the data path and the tape storage device. It requires no system or software changes and can be used on both stand alone and library tape drives.

- Secure data in transit
- Guaranteed privacy when using a shared tape silo
- Secure transit of confidential data by commercial couriers
- Ensure data integrity of legal information
- Ensure patient record confidentiality

PLUG and PLAY Simplicity

Installation of the appliance requires no changes to the operating environment or back up procedures. At power up the unit auto detects the SCSI ID of the tape drive and automatically sets its own ID to the same address. This ensures that installation in an existing configuration is simple and straightforward.

Pre-Compression

Encrypted data can't be compressed. Since compression is normally carried out on the tape drive itself, the data must be compressed before it is encrypted or else the back up time will be affected significantly. Q3 overcomes this limitation by compressing the data before it is encrypted.

SECURITY SOLUTIONS: Q3

Q3 features include:

- Unique dual interlaced - DES and dual DES3 modes
- Up to 72MB/sec sustained encryption rate
- LVD, S/E or HVD wide SCSI interfaces
- Dual key user entry plus hardware key
- Platform independent
- Desk top or rack mount
- LCD Status information
- On-the-fly tape encryption
- GUI configuration software
- Transparent to operating system
- Simple, non-intrusive solution

Simplified, Strong Key Management

Key Management is strong, yet simple, offering the highest level of security. Q3 includes an encryption chip that's unique to each appliance. In addition, users enter their key(s) using the GUI programme or a standard dumb terminal. The system then works only if both components are present. The device is also shipped with a duplicate chip which must be secured safely off site along with the user keys. In the event of disaster, a new appliance will be sent out immediately and the spare chip replaced, allowing encrypted data to be restored.

Easy to Manage

The Q3 has a number of possible configurations and to simplify management of the unit, a GUI program is supplied allowing easy installation and control.

Unique Dual Interlaced Encryption Modes

The Q3 offers the greatest level of security by providing unique interlaced DES level 3 data encryption, where the data is split into two streams and each stream is encrypted separately using 112-bit encryption allowing for 52 decillion possible keys for each stream. The two streams of encrypted data are merged before the data is written to tape. To further strengthen security, if the device is stolen, the software key is lost after the unit has been without power for two minutes. If anyone attempted to steal the data, they would need the tape, the user key and the specific unit in order to retrieve it.

Reliable

The Q3 hardware appliance is designed for reliability with minimal operational impact. You simply plug it in and forget about it. This is not the case for software encryption programs where constant maintenance is necessary.

Technical Specification

Encryption Method	Dual-DES and Dual-DES3
Interface	Ultra Fast Wide SCSI LVD, S/W or HVD (Differential)
Connectors	2 x 68 way micro D
Max data rate	80 Mbytes/sec
Sustained data rate	72 Mbytes/sec
Configuration	Windows GUI or serial terminal
Options	Rack mount or table-top
Termination	Host bus external, tape bus internal
Power	90-260 VAC

Dimensions

Rack Mount	CM's required
Desk Top	CM'S required