



Backup Storage Security Encryption

● ● ● Seamless . Reliable . Secure Improve Security by Protecting Data at Rest

Data security is undoubtedly the main concern of IT staff worldwide. Continuous headlines reveal the hundreds of companies that are affected by data breaches every year. According to the Identity Theft Resource Center, in 2008 there were over 656 publicized security breaches affecting nearly 35.7 million individuals. Loss or stolen backup tapes contributed to a large number of these breaches. The protection of backup data is often overlooked. Many believe that the data is useless because it contains old information only used for disaster recovery. Even just one compromised backup tape can cost a company their reputation, competitive advantage, and thousands in fines.

Due to recent government regulations companies are now required by law to protect consumer's personal information. Regulations like HIPAA protect consumers by requiring that their critical personal data is secure at all times. California Senate Bill 1386 goes one step further by requiring that customers are notified immediately when there's a suspicion that their personal data has been compromised. This can be as simple as a tape lost in transit.



An alarming amount of companies worldwide have delayed the necessary steps they need to take to secure data at rest. Encryption is the only way to truly secure backup data. Many believe that the process of encryption is tedious, costly and slows down the network and backup 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 current backup procedures. Q³ is the answer to your storage security challenges.

SECURITY

The Ponemon Research firm reported that data breaches cost companies an average of \$197 per compromised record in legal fees and other expenses.

Can your company afford not to secure your backup data?

PCI COMPLIANCE

The Payment Card Industry Data Security Standard (PCI DSS) was created by the top 5 credit card companies to enforce a common set of security standards to protect cardholders. The Q³ appliance assists with PCI compliance by meeting **Requirement 3 - Protect stored cardholder data.**

BOSaNOVA goes one step further by offering technology upgrades to keep you PCI compliant regardless of the changes with the standards.

SECURES YOUR BACKUP DATA

BOSaNOVA's storage encryption appliance provides complete security for backup tapes without affecting performance. It is the simplest, least intrusive high security tape encryption device available. Installation takes only 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
- Guarantee 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 backup 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.

RELIABLE





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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 backup time will be affected significantly. The Q³ overcomes this limitation by compressing the data before it is encrypted.

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 program 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 securely stored off-site along with the user keys. In an event of a 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 dual interlaced extended DES data encryption, where the data is split into two streams and each stream is encrypted separately using 112-bit encryption allowing for 2.69 x 10⁶⁷ possible key combinations. 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.

INTEGRITY

HIGHLIGHTS

- Unique dual interlaced extended DES encryption mode
- SCSI LVD, SCSI HVD or Fibre Channel 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

SPECIFICATION

Encryption Method	Dual Interlaced Extended DES
Interface	Ultra Fast Wide SCSI LVD, SCSI HVD, or Fibre Channel
Connectors	2 x 68 way micro D
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	14.2"(D) x 20"(W) x 3.5"(H)
Desktop	14.2"(D) x 17.3"(W) x 4"(H)

PERFORMANCE



100% SATISFACTION GUARANTEED

Customer satisfaction is important to us, that's why we offer the most comprehensive guarantee policy in the industry.

Get the peace of mind and satisfaction you deserve with our **100% satisfaction guarantee.**

To learn more about our technology, compliance and 90-day satisfaction guarantee that comes standard with every Q³ purchase, visit us online at www.theq3.com/guarantee.php

