



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 2006 there were over 315 publicized security breaches affecting nearly 20 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 \$182 per compromised record in legal fees and other expenses.

Can your company afford not to secure your backup data?

IDENTITY THEFT

Identity theft is one of the fastest growing crimes in the United States, costing victims over \$5 billion annually. Identity theft is when someone else uses your personal information without your knowledge or permission to obtain credit cards, get wireless or phone products and services, obtain loans and mortgages, get a job, and commit other types of fraudulent or even criminal acts, in your name, leaving you responsible for the consequences.

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 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.

INTEGRITY

HIGHLIGHTS

- Unique dual interlaced - DES and dual DES3 modes
- Up to 72 MB/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

SPECIFICATION

Encryption Method	Dual-DES & Dual-DES3
Interface	Ultra Fast Wide SCSI LVD,S/E 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

PERFORMANCE

Penalties for Non-Compliance		
Regulation	Potential Penalty	Potential Fine
GLBA	10-Year Prison Sentence	\$1,000,000
HIPAA	10-Year Prison Sentence	\$100 fine with a maximum of \$25,000 per year
Sarbanes - Oxley	10-Year Prison Sentence	\$15,000,000
SEC Rule 17a - 4	Suspension	\$1,000,000

DIMENSIONS

Rack Mount	14.2"(D) x 20"(W) x 3.5"(H)
Desk Top	14.2"(D) x 17.3"(W) x 4"(H)

AUTHORIZED RESELLER



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