

Q-EKM

Quantum Encryption Key Manager

Enterprise proven security for your valuable data at rest

Quantum's Encryption Key Manager (Q-EKM) is an Enterprise proven, easy-to-use solution for managing encryption keys across multiple Quantum libraries. The Q-EKM centralized key manager application operates out of the data path for maximum flexibility and performance to manage the encryption keys used as part of the LTO-4 drive-based data encryption process.

The benefits of encrypting data are countless given the potential cost and damage that a data breach of sensitive public data or proprietary corporate Intellectual Property might carry. Q-EKM provides an enterprise proven solution to protecting this valuable data stored on tape both inside and outside of the tape library.

Q-EKM is a Java software program that generates, protects, stores, and manages encryption keys supporting multiple libraries in a centralized keystore. These keys are used by the LTO-4 tape drive to encrypt information being written to, and decrypt information being read from, tape media. The Encryption keys pass through the library-to-drive interface; therefore encryption is transparent to the backup applications. Q-EKM was designed to generate and communicate encryption keys over standard Ethernet based IP for LTO-4 drives in Quantum Libraries across the customer's environment.

Supports LTO-4 based Government Recommended AES 256 Bit Encryption

With the introduction of native drive-based encryption in the newly released LTO-4 drives, administrators now have a more cost-effective method to protect their data at rest. LTO-4 Encryption is based on the AES 256 (Advanced Encryption Standard) encryption standard, which is deemed unbreakable by the government.

Out of The Data Path Solution for Maximum Performance and Flexibility










Q-EKM encryption occurs out of the data path, therefore it does not impact backup performance and does not require restoration in the exact system that encrypted the data. Encryption keys generated by Q-EKM are transferred to any library attached to the IP-based Q-EKM system. The benefit of Q-EKM's approach is that it is truly an enterprise class solution that does not require each individual application or library to manage the keys. This avoids the "same system" requirements for restoration, or restoring through the same setup that wrote the original tape cartridge which is cumbersome in an enterprise environment running multiple backup applications and multiple tape libraries.

ENTERPRISE PROVEN SOLUTION

SET-AND-FORGET DESIGN FOR EASE-OF-USE

SCALABILITY FOR THE ENTERPRISE AND DISTRIBUTED ENVIRONMENTS

FEATURES AND BENEFITS

-  Industry Standard Security – Provides Government Approved AES 256 bit Data Encryption to protect your valuable data
-  Designed to work with LTO-4 Tape Drive Based Encryption – No impact on backup application performance, no increase in backup windows
-  Seamless Integration – Does not require configuration changes to your current backup environment
-  Part of the Quantum Tiered Set of Security Solutions – To meet the unique security needs of your environments
-  Set and Forget Usability – No regular maintenance or management allowing IT to focus on other areas of their data center
-  Out Of The Data Path Solution – Provides maximum flexibility with no performance impact; or "same system" restore requirements
-  Enterprise Ready – Enables the sharing of a common keystore between multiple Quantum libraries with Ethernet-based-communication over LAN/WAN
-  Scalable – Scales depending on your unique requirements; an unlimited number of Quantum libraries can be supported
-  Synchronized Keystores – In separate geographical locations allow for uninterrupted availability

Scalable and Easy To Set-Up

Q-EKM licenses are available based on the size of the solution an administrator wishes to enable for encryption key management so you can easily scale up to accommodate data growth. Set-up is easy; both the i2000 and i500 easily connect to Q-EKM through an easy-to-use GUI. Once installation is complete you can be up encrypting data in a matter of minutes.

Set and Forget Use Model

Q-EKM was designed with a "Set and Forget" mentality. Key Management should not be additional work that an IT administrator needs to worry about. Once Q-EKM is installed; generating, issuing, and managing keys for backups and restores is not something that requires intervention. As long as the keys are available, the administrator can rest assured that his data is being encrypted and managed without his intervention.

High Availability (HA) Capable

To further protect access to Q-EKM and its keystore, Q-EKM supports a HA configuration option. In the HA configuration two Q-EKM servers are connected and synchronized, one at a local site and one at a remote site, so your keys will always be available if one of the servers goes down.

SPECIFICATIONS

Operating System Compatibility (host server)

Windows 2003 Server
RHEL 4

Server Requirements

Xeon Class Server
1GB of Memory min.
10GB of free HD space min.

Connectivity Requirements

Q-EKM must have IP connectivity to all Quantum libraries using it to obtain LTO-4 encryption keys

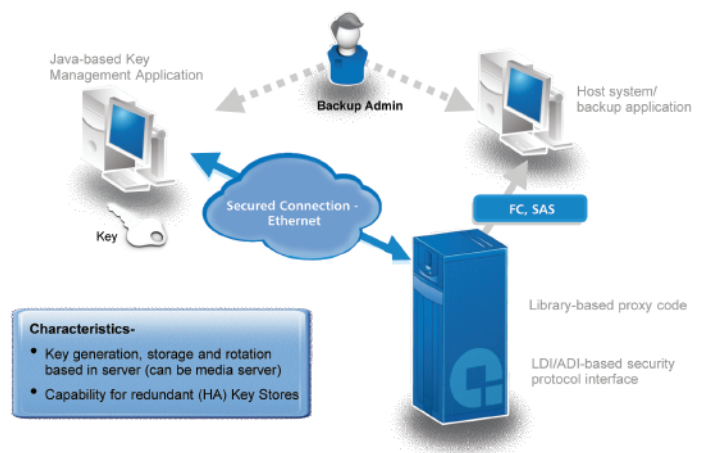
Supported Products

Scalar i2000 - with IBM FC LTO-4 drives
Scalar i500 - with IBM FC or SAS LTO-4 drives

Installation

Q-EKM is installed by Quantum and Quantum partners

Q-EKM Architecture



Quantum For contact and product information, visit quantum.com, call **800-677-6268** or send an email to softwareinfo@quantum.com

Quantum

Backup. Recovery. Archive. It's What We Do.

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About Quantum

Quantum Corp. (NYSE:QTM) is the leading global storage company specializing in backup, recovery and archive. Combining focused expertise, customer-driven innovation, and platform independence, Quantum provides a comprehensive range of disk, tape, media and software solutions supported by a world-class sales and service organization. As a long-standing and trusted partner, the company works closely with a broad network of resellers, OEMs and other suppliers to meet customers' evolving data protection needs.