SCALAR KEY MANAGER

FEATURES & BENEFITS

FIPS 140-2 Level 1 Validated
Scalar Key Manager is FIPS 140-2 Validated by the National Institute of Standards and Technology to support the highest levels of security.

Highly Available Solution
Scalar Virtual Key Manager is included as redundant pair of HA virtual machines.

Powerful Key Management Policies
Scalar Key Manager provides a number of key management policy options to meet any security level requirements.
- One key per tape
- One key per partition
- Key reuse
- One key per library

Flexible Key Policies
Scalar libraries provide a range of key policies to enable each organization to choose the right balance of security and convenience.

Scalable Solution for Distributed Environments
Scalar Key Manager can centrally manage your encryption keys across the data center and remote sites, and can scale with ever-growing data demands.

Simplified Encryption Key Management
Scalar Key Manager is integrated with Scalar tape libraries, enabling simplified administration of the encryption key management process. Encryption setup, configuration, and administration are all completed through the library interface.

Simplified and Secure Encryption Key Management for Scalar Tape Libraries

Due to the current cyber climate, the demand for encryption continues to increase as the need to mitigate risks of data breaches, protect brand reputation, and comply with privacy and data protection regulations also increase. The escalating costs of data breaches are driven by the loss of customers and business, customer notifications, legal services, and consulting services. In addition, many companies find that one of the biggest costs of a data breach, such as ransomware, is the damage it can do to your brand and reputation. Encryption mitigates the risks of these costs by protecting your data even after it leaves the data center. Encryption also helps companies comply with increasing regulations around security and privacy.

Scalar® Key Manager is simple to use, easy to manage, and is designed to enable encryption for Scalar library installations of all sizes. Scalar Key Manager integrates directly with Quantum's Scalar tape libraries to provide a simple, centralized security solution designed to work with encryption-enabled LTO drives. It offers high-availability (HA) key management that can be easily integrated into existing backup architectures. It is installed as a pair of virtual machines in a VMware, Hyper-V, or KVM environment. Scalar Key Manager provides Quantum tape library customers with a federally certified security solution while maintaining simplicity for encryption key management across all Scalar library units in the data center and in remote locations.

INTEGRATED WITH QUANTUM'S SECURE SCALAR LIBRARIES
Scalar Key Manager is fully integrated with Quantum's Scalar tape libraries to reduce the time you spend managing your encryption solution. The Scalar Key Manager setup, configuration, management, and even diagnostics are all accomplished through the native Scalar library user interface. Since there is no additional interface to manage, this integration further simplifies initial setup and the ongoing administration of your security solution.

LEARN MORE:

www.quantum.com/scalar
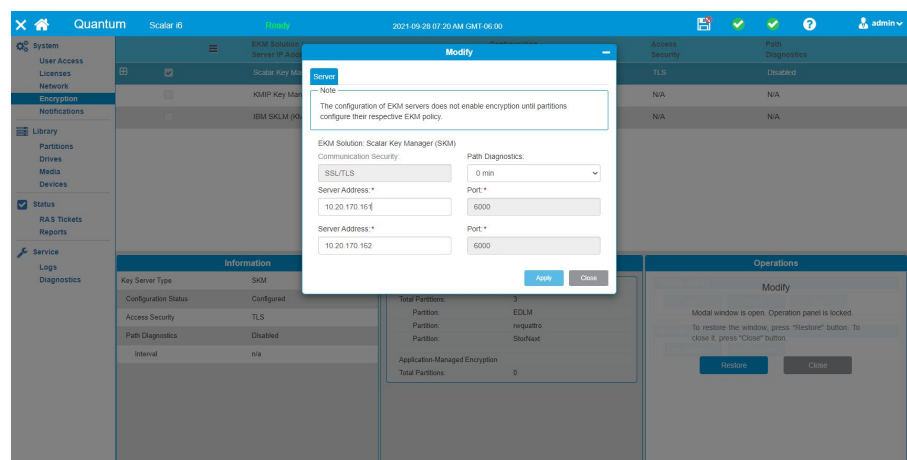
MINIMIZE COMPLEXITY OF THE KEY MANAGEMENT PROCESS

Quantum's Scalar Key Manager is customer installable, and setup and configuration are easily accomplished through the simple, intuitive Scalar library user interface. Once Scalar Key Manager is installed and encryption is enabled, Scalar Key Manager handles all of the key management tasks, including key creation, tracking the relationship between keys and tapes, and synchronizing key databases between the primary and secondary appliances. No further direct involvement is required from the end user. Quantum's solution is "set-and-forget" simple—and end users can rest assured knowing their data is secure.

COMPLIANCE WITH FEDERAL SECURITY STANDARDS

Scalar Key Manager is FIPS 140-2 validated, which is a federally approved level of security. Purchasing a key management solution that is FIPS validated means that the underlying cryptographic key management software and hardware is sufficiently robust to meet federally adopted standards of security. In addition, Scalar Key Manager is included as a pair of high availability (HA) virtual machines that provide redundancy and failover for the encryption key management process.

SCALABLE SOLUTION FOR DISTRIBUTED ENVIRONMENTS

Scalar Key Manager is the ideal solution to centrally manage the encryption key process across systems and sites. It can manage the encryption key process for one Scalar library or all the Scalar libraries in your environment while providing a platform that can scale with data growth.

ENCRYPTION KEY MANAGEMENT (EKM)

The management of encryption keys is vital, since losing the key is tantamount to losing the data encrypted with that key. All Quantum Scalar tape libraries support both application-managed keys and external key managers such as those conforming to the OASIS KMIP specification.

SCALAR KEY MANAGER VIRTUAL EXAMPLE ARCHITECTURE
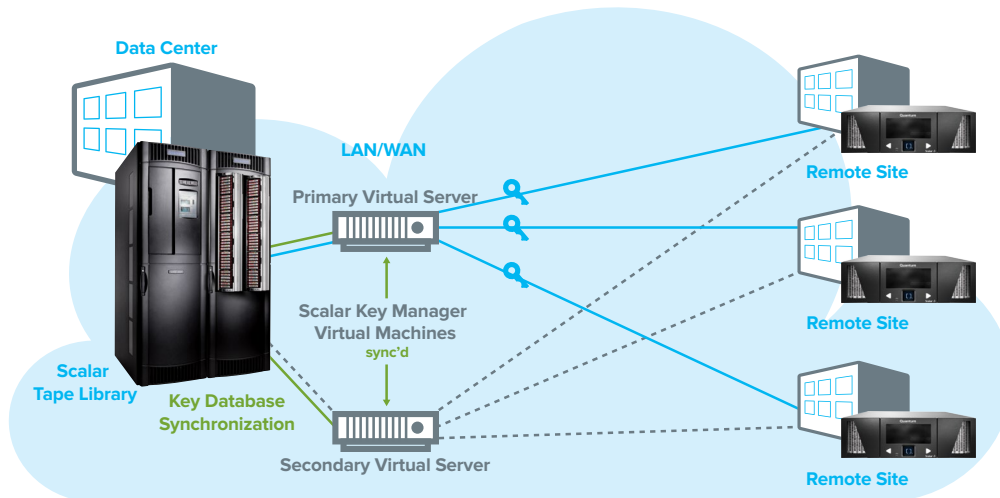
TECHNICAL SPECIFICATIONS*

GENERAL

- Scalar Key Manager is built to comply with the FIPS 140-2 Level 1 federal security standard
- Centralized, scalable solution to manage keys across multiple tape libraries and multiple locations
- HA configuration with redundant, synchronized key servers
- Customer installable
- Integrated directly with Quantum Scalar tape libraries (managed through the native tape library GUIs)
- Supports LTO drive-based encryption
- Ability to import and export keys to facilitate key sharing

VM SPECIFICATIONS

Requires VMware ESX or ESXi, 4.0 (64 bit) or 5.0 (64 bit)

KVM requires CentOS 6 and CentOS 7 and RHEL 6 and RHEL 7

Resources Required for Each Scalar Key Manager VM server:	(1) Ethernet interface
	(1) CD/DVD ROM drive
	4 GB RAM
	16 GB of disk space

Supports Virtual Server Options in: VMware, Hyper-V and KVM environments

SUPPORTED PRODUCTS

- Scalar i6000 with IBM LTO-6, LTO-7, LTO-8, and LTO-9 drives
- Scalar i6 with IBM LTO-6, LTO-7, LTO-8, and LTO-9 drives
- Scalar i500 with IBM LTO-6, LTO-7, LTO-8, and LTO-9 drives
- Scalar i3 with IBM LTO-6, LTO-7, and LTO-8 drives

*The Scalar Key Manager appliance option is deployed as a virtual machine.

See *User Guide* on www.quantum.com for more information.
See *Compatibility Guide* at *www.quantum.com/en/service-support/compatibilityguides* for more information.

Quantum.

Quantum technology, software, and services provide the solutions that today's organizations need to make video and other unstructured data smarter — so their data works for them and not the other way around. With over 40 years of innovation, Quantum's end-to-end platform is uniquely equipped to orchestrate, protect, and enrich data across its lifecycle, providing enhanced intelligence and actionable insights. Leading organizations in cloud services, entertainment, government, research, education, transportation, and enterprise IT trust Quantum to bring their data to life, because data makes life better, safer, and smarter. Quantum is listed on Nasdaq (QMCO) and the Russell 2000® Index. For more information visit www.quantum.com.