Secure Key Lifecycle Management for Spectra Logic Tape Libraries

SPECTRA®

Simple Encryption Key Management

Spectra® tape library users requiring more robust security can deploy Spectra Security Key Lifecycle Manager (SKLM) for the highest encryption security standard. SKLM is a scalable encryption key manager with a unified key management strategy to streamline encryption implementation.

Managing numerous encryption keys can be complex. Each key may have its own lifecycle and usage pattern, and this complexity is amplified when you have multiple tape libraries. SKLM simplifies this process by allowing you to manage all your keys in one place, ensuring they are securely protected and used automatically across your library environment.

Greater Interoperability with KMIP

Spectra recommends selecting a SKLM solution that supports the Key Management Interoperability Protocol (KMIP). KMIP is a standardized communication protocol for managing cryptographic keys in enterprise environments. It is designed to facilitate the interoperability of key management services with different cryptographic clients, such as applications and devices.

One of the primary advantages of using KMIP with SKLM is managing a diverse set of clients from different vendors. KMIP's standardization allows SKLM to work seamlessly with any KMIP-compliant device or application, reducing the complexity of managing keys in a heterogeneous IT environment. KMIP and SKLM work together to provide a comprehensive and secure key management solution that is both interoperable and scalable, meeting the needs of modern enterprise environments.

Benefits of SKLM

Centralized, transparent key management through the secure storage of key material and the serving of keys at the time of use.

Simple, secure integration with supported protocols, including KMIP, IPP and REST, and interfaces such as PKCS#11.

**Reduces key management costs** by automating the assignment and rotation of keys.

Easily Protect Data and Destruct Keys with the SKLM audit trail, ensuring data is unreadable and reliably destroyed for compliance requirements.

Flexible deployment options including on bare-metal servers, as a virtual machine or container.

Meets regulatory requirements by providing access control, key rotation, and other automated key lifecycle management processes.

How it Works

SKLM enables you to control the lifecycle of keys by automating the creation, import, distribution, and backup of keys. It allows key generation and distribution from a centralized location and groups devices into separate domains for simpler key management. It also supports role-based access control of administrative accounts.
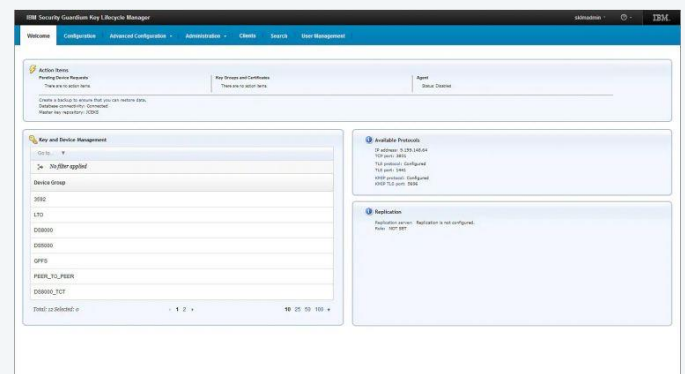
Easy and simplified lifecycle key management

Technical Specifications

For SKLM, Spectra Logic offers the IBM Security® Guardian® Key Lifecycle Manager.

IBM Security Guardium Key Lifecycle Manager is an encryption key management tool that centralizes, simplifies, and automates the key management process. It offers robust and security-rich key storage, key serving, and key lifecycle management for self-encrypting applications and solutions.

IBM Security Guardian Key Lifecycle Manager	Specifications
Server Hardware	• System memory (RAM): 4 GB minimum., 8 GB recommended • Processor speed (Windows or Linus): 3.0GHz dual processor • Processor speed (AIX systems): 1.5 GHz (4-way)
Disk space	• Disk space free for SKLM: 16 GB minimum, 30 GB recommended • Additional disk space requirements: refer to SKLM Support Matrix
Software	• Operating Systems: Linux (64-bit) or Windows (64-bit) • SKLM Server: refer to SKLM Support Matrix • Websphere Application Server: refer to SKLM Support Matrix • Database: IBM Db2
Library Support	• All Spectra TFinity, T950, Cube, and Stack tape libraries
Drive Support	• LT0-5, LTO-6, LTO-7, LTO-8, LTO-9, and LTO-10 • IBM® TS1140, TS1150, TS1155, TS1160, and TS1170
Management Interface	• Graphical User Interface (GUI) • Command Line Interface (CLI)
Federal Information Processing Standard (FIPS)	• Optional configuration setting for FIPS mode
Key Management Interoperability Protocol (KMIP)	• Conforms to Key Management Interoperability Standard (OASIS)
Key Quantity	• Key per tape capability • 1,000,000+ keys
Scalability	• Manage multiple libraries and / or locations from a single pane of glass
Key & Certificate Management	• Monitor and manage full range of encryption keys and certificate authority status as well as associated metadata • Secure third-party key exchange
Security	• Role Based Access Control (RBAC) • Key, Device and User Grouping (Segregation) • Audit Trail • Key Destruction
Redundancy	• Backup and failover to multiple SKLM instances ensuring continuous key management and data availability

For additional information, refer to the IBM Security Guardian Key Lifecycle Manager Support Matrix

About Spectra Logic Corporation

Spectra Logic modernizes IT infrastructures to preserve, protect and defend data, from days to decades, whether on-premises, in a single cloud, across multiple clouds or in all locations at once. Our cost-effective solutions help organizations efficiently manage, migrate and store long-term data, from terabytes to exabytes, with features that make it ransomware resilient.

www.spectralogic.com