MarkLogic® | **THALES**

Thales KeySecure for MarkLogic
KMIP key management for MarkLogic encryption at rest


Massive amounts of organizational data are accumulating faster than ever. Websites, personalized advertisements, mobile phones, and the Internet of Things are just a few of the areas that are generating significant amounts of big data. This information, and the insights gleaned, is vital for helping every organization succeed. And, to effectively handle this amount of data, organizations need efficiency combined with scalable automation.

As enterprises continue to adopt big data frameworks in their IT environments, much of the data collected is highly sensitive, such as personal financial and health information as well as proprietary organizational information. Loss or non-compliant use of that data may result in reputational damage, loss of customers, and negative business operational impacts, or significant monetary fines. Securing sensitive information is a major priority.

Benefits

- **Transparent, Strong Encryption.**
  Transparent Data Encryption secures data as it resides in the database, and as it is replicated and backed-up.
- **Maximum Key Security.**
  - Thales KeySecure is available in a FIPS 140-2 Level 1 algorithm-safe and Level 3 tamper-proof hardware appliance – or as a virtual hardware appliance
- **Apply granular access control policies.**
  - Manage keys centrally in a FIPS-certified key manager
  - Prevent rogue root administrators from impersonating other users and accessing protected data
- **Achieve Compliance**
  - Separate duties among administrators
  - Track and audit access to protected data and keys
- **Secured, Assured Availability**
  - Flexible high-availability configurations suitable for geographically dispersed datacenters or service providers
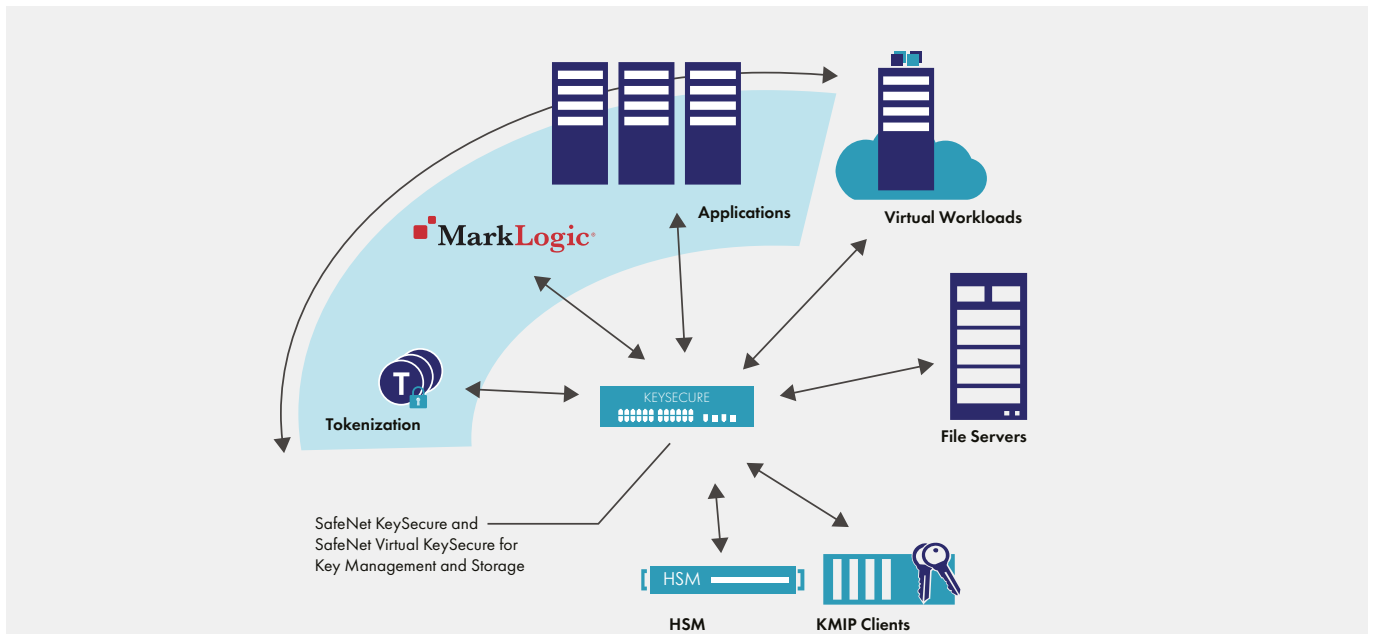
MarkLogic and Thales offer an efficient solution for protecting sensitive data

MarkLogic Server is a multi-model database for operational and analytical data. MarkLogic Server natively stores and queries multi-model data and allows for relational views for SQL analytics. As the underlying database for the MarkLogic Data Hub Platform, it provides a unified platform that organizations use to integrate data from silos with an unprecedented level of flexibility and agility. MarkLogic has trusted enterprise data management capabilities such as native encryption to secure sensitive data and make MarkLogic the most secure multi-model database on the market. Over 2,500 organizations including top banks and major government agencies trust MarkLogic to secure and safely share their enterprise data at massive scale.

Thales KeySecure is an encryption and key management appliance that securely stores MarkLogic Server native encryption keys. Centralized key storage and management improves security by making surveillance, rotation, and deletion easier. Its access control features allow for separation of duties so that no single administrator is responsible for the entire database. For sensitive, highly regulated data, external key storage and management is a fundamental compliance requirement. KeySecure allows organizations to address their regulatory obligations in a streamlined, efficient manner.

Why use Thales KeySecure with Marklogic Server?

The rapid adoption of big data presents organizations with extraordinary opportunities to innovate. However, these opportunities don't come without risk of data exposure. MarkLogic and Thales offer a joint solution that helps organizations meet their big data security needs.

Key Features:

- Simplified, consolidated key management
- Separation of duties among administrators
- Reduced risk and improved compliance

About MarkLogic

Data integration is one of the most complex IT challenges and MarkLogic's mission is to simplify it. MarkLogic is more than just a database company — MarkLogic Server powers the MarkLogic Data Hub which is a highly differentiated data platform that eliminates friction at every step of the data integration process, enabling organizations to achieve a 360º view faster than ever. The MarkLogic Data Hub integrates and curates enterprise data to provide immediate business value. Running on a NoSQL foundation for speed and scale, it's multi-model, elastic, transactional, secure, and built for the cloud. By simplifying data integration, MarkLogic helps organizations gain agility, lower IT costs, and safely share their data. Headquartered in Silicon Valley, MarkLogic has offices throughout the U.S., Europe, Asia, and Australia.

About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing number of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.

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