



VORMETRIC



Vormetric Key Management

A comprehensive key management solution eliminating administrative complexity and security risks by managing encryption keys for Oracle, Microsoft SQL Server, and custom applications as well as providing secure, centralized storage of any encryption key.

ENTERPRISE KEY MANAGEMENT BENEFITS

- **Operational efficiency** through continuous data availability as keys are not lost or compromised.
- **Reduced management burden** with less time required to manage encryption keys. Automated, centralized key generation, storage, and expiration policies for Transparent Data Encryption for Oracle and Microsoft SQL Server databases.
- **Reduced costs** via uniform control of strategic vendor encryption keys.
- **Availability** enabling enterprises to backup and store all key repositories to a highly available system, ensuring enterprise data stores can be decrypted.
- **Secure storage** of encryption keys, both symmetric and asymmetric, of any strength.
- **Extensibility through standards:** support for standards including PKCS#11, Extensible Key Management (EKM), and OASIS KMIP (available mid-2012) enables the extension of key support throughout the enterprise

Enterprises have gradually deployed point encryption solutions to meet various compliance mandates and internal data governance requirements. The resulting conglomeration of disparate vendor platforms deployed across the enterprise poses a management and operational headache with each encryption solution having its own key and policy management interface. Deploying encryption is essential to meeting compliance mandates, adhering to internal governance requirements, and avoiding negative audit comments; however, the existing hodgepodge of encryption solutions generates increasing numbers of encryption keys and growing key stores.

Data is only as secure as the system that manages encryption keys protecting the data. A centralized enterprise key management solution is critical to ensuring data is secure and available.

Vormetric Key Management provides a robust, standards-based platform for managing encryption keys from disparate sources across the enterprise. It simplifies the management and administrative challenges around encryption key management to ensure that keys are secure and always available to authorized encryption services. Vormetric Key Management eases management burdens and improves security by providing centralized management and auditing of keys across the enterprise.

Improve Operational Efficiency

The proliferation of deployed encryption solutions risks downtime when an encryption key is unavailable for whatever reason. Production systems can grind to a halt as encrypted data is inaccessible without the proper encryption key. Vormetric Key Management ensures that keys are stored securely and always available to authorized encryption services. It also provides extensive audit capabilities to audit and report on all activities relating to keys including key generation, rotation, destruction, key import, and key export.

Reduce Management Burdens with Centralized Key Management

With many discrete encryption solutions dispersed around today's enterprise, security administrators spend inordinate amounts of time and energy managing keys for dispersed solutions, each of which has its own enforcement policy. In some cases, widespread adoption of encryption is not possible for lack of robust, centralized management of encryption keys. Vormetric Key Management simplifies the process of managing



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KEY FEATURES

Security

NIST FIPS 140-2 Level 2 and Level 3 for Vormetric Data Security Manager hardware appliance (validation in process)

API Support

PKCS #11, Microsoft Extensible Key Management (EKM), Open SSL and OASIS KMIP (available mid-2012)

Management Control

Role-based administration with multiple, restricted roles providing separation of duties (SOD):

- System administrator, Security Administrator, Domain Administrator

Two-factor authentication

Key Availability and Redundancy

Secure replication of keys across multiple appliances with automated backups.

High Availability and Redundancy

Clustering
Geographic distribution
Dual power supplies
Mirrored disk drives

Backup

Scheduled backups
Secured using M of N shares

Cryptography

Support for symmetric and asymmetric keys of any strength
Network Management
SNMP, NTP, Syslog-TCP

System Administration

Secure web-based GUI, Secure Shell (SSH) and console

Audit & Reporting – Audit logging and reporting

ABOUT VORMETRIC

Vormetric is the leader in enterprise encryption and key management for physical, virtual and cloud environments.

cryptographic keys, enabling security teams to gradually consolidate the management of encryption across the enterprise. Centralized key management enables administrators to demonstrate regulatory compliance and generate the necessary audit reports. In addition, Vormetric Key Management's Key Vault provides secure storage for all symmetric and asymmetric encryption keys of any strength.

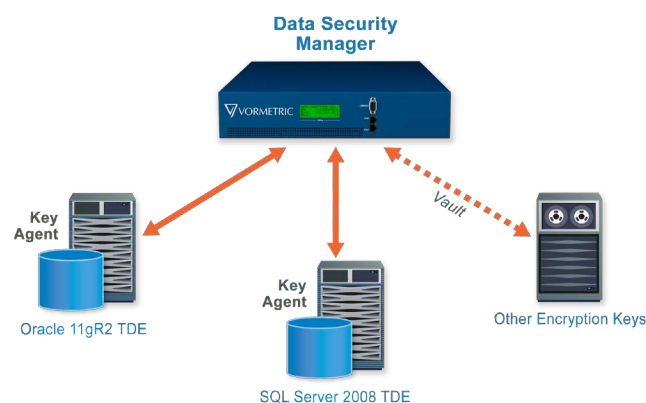
Reduce Costs with Unified Solution

Vormetric Key Management enables enterprises to minimize encryption key management costs by managing heterogeneous encryption keys, including keys generated by Vormetric, IBM Encryption Expert, Oracle Transparent Data Encryption (TDE), Microsoft SQL Server TDE, and applications with integrated encryption. Vormetric Key Management shares common infrastructure with Vormetric Encryption, enabling customers to use a common Data Security Manager appliance to control Vormetric Encryption along with other encryption solutions.

Vormetric Key Management Elements

The following three elements comprise Vormetric Key Management:

- **Vormetric Data Security Manager** - is a hardware security module (HSM) appliance that provides centralized key and policy management. It features an intuitive web based management console for enterprise-wide administration, policy management and audit of encryption keys.
- **Vormetric Key Agents** - integrate with Oracle TDE and Microsoft SQL Server TDE and communicate with the Vormetric Data Security Manager to provide life cycle management for TDE Master Encryption Keys.
- **Vormetric Key Vault** - provides FIPS-certified, high availability storage and backup of symmetric and asymmetric encryption keys of any strength, and tracks expiration dates. Key Vault is an option available with the Data Security Manager.



For more information, please call (888) 267-3732 or visit www.vormetric.com.

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