

# VORMETRIC DATA SECURITY USE CASE

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*A single, extensible solution that helps organizations prevent breaches, protect data, meet compliance requirements, and gain valuable security intelligence across physical, virtual, cloud and big data environments*

As enterprises generate larger amounts of data, and continue their journey to the cloud, they face the growing challenge of protecting and controlling access to accumulated volumes and varieties of sensitive data. Sensitive data like customer information, intellectual property and financial data are extremely valuable commodities that are attractive targets requiring data-centric protection from both a security and compliance perspective. Security has changed. Given permeable perimeters, advanced cybercrime techniques, the insider threat and ever evolving compliance requirements, enterprises need to reduce their attack surface, secure their vital assets and limit access to sensitive information.

Vormetric Data Security protects your most critical asset from security breaches and compliance threats by implementing access policies with fine-grained controls, deploying advanced encryption, leveraging key management and vaulting technologies to lock down and change the state of the data, and continuously gathering security intelligence to identify any emerging issues in real-time. Vormetric provides transparent, strong, efficient data protection that is easy to deploy and manage while avoiding the need to modify applications or storage infrastructure and can be deployed across heterogeneous environments.

Solutions in each area:

- Safeguard sensitive information from data breaches
- Support compliance and regulatory requirements
- Enable organizations to meet requirements for data protection from customers and partners

## DATA PROTECTION

Vormetric Data Security provides a single platform that extends across the enterprise to provide data security and operational efficiency in a variety of use cases.

**Database (Structured) Security** — Vormetric Data Security protects databases and can encrypt and control access to databases in any environment – physical, virtual and cloud. Vormetric Key Management stores and manages encryption keys for Transparent Data Encryption (TDE) for Oracle, IBM DB2, Microsoft SQL Server, MySQL, Sybase, NoSQL environments, or any combination thereof.

**Unstructured Data Security** — Vormetric Encryption enables enterprises to meet requirements to secure and control access to unstructured data including pdf files, spreadsheets, word documents, presentations, graphics, and more.

**Transition to the Cloud** — To leverage cloud resources (including IaaS such as AWS, Azure, FireHost and IBM: SaaS such as Box & S3). While meeting your enterprise cloud security and compliance requirements, you need robust, persistent, and granular controls that can be applied whether data is in your internal data center or at your cloud provider's facilities.

**Virtual Environment Security** — Vormetric Transparent Encryption delivers the security capabilities you need to safeguard your sensitive assets. Whether you're running VMware, Microsoft Hyper-V, KVM (Kernel-based Virtual Machine), or any other standard virtualization platform, Vormetric can help you address your critical security requirements, with unparalleled efficiency and low cost of ownership.

**Big Data Security** — Vormetric solutions enable organizations to maximize the benefits of big data analytics without risking the security sensitive data. The Vormetric Data Security Platform offers the capabilities that organizations need to secure sensitive data across big data environments—including big source data sets, big data infrastructure, and big data analytics results. We are fully integrated with most Big Data partners so you will never be a “BETA customer” with your Big Data deployment.

**Super User/Administrator Credentials Abuse** — Vormetric Encryption encrypts and controls access to data for commercial-off-the-shelf applications as well as legacy applications so that enterprises can meet security obligations without disrupting operations. Vormetric Key Management enables custom applications to take advantage of cryptographic services to secure application data and meet enterprise security requirements.

**Protection From Rogue Insiders** — User Access Controls reduce the enterprise risk profile by controlling privileged system users such as root or system administrators, allowing them to do their jobs without having access to protected information.

**Intellectual Property Protection** — Compromised intellectual property can have catastrophic business consequences. Vormetric encrypts and controls access to intellectual property, from design diagrams to databases to reduce the enterprise risk profile.

**Outsourcing & Contractual Obligations** — Service providers handling sensitive data frequently have to demonstrate that client data is protected. Vormetric Data Security encrypts, controls access, and reports on access to meet contractual obligations.

**Facilitating Repair & Disposal of Storage Hardware** — Disposing of servers and storage containing sensitive data can be a costly exercise for many enterprises. Vormetric Data Security enables enterprises to cryptographically shred information and avoid expensive equipment disposal costs.

**Mitigating Advanced Persistent Threat (APT) Risk** — Vormetric Data Security reduces the attack surface by protecting data and controlling access to data targeted by APTs. It also helps provide security intelligence by communicating unauthorized access attempts and unusual access patterns.

**Secured Data Management and Control** — Centralize keys and certificates on KMIP compliant devices. Vormetric Key Management enables enterprises to store, report and alert on certificates and other security materials to maintain application uptime and minimize SSL management costs.

**NAS Security** — Organizations can institute strong, comprehensive protections around the sensitive assets that are stored in NAS environments.

## CORE PRODUCT TECHNOLOGIES

The Vormetric Data Security Platform makes it efficient to manage data-at-rest security across your entire organization. Built on an extensible infrastructure, the Vormetric Data Security Platform features several products that can be deployed individually or together. Through the platform’s centralized key management and flexible implementation, you can address security policies and compliance mandates across databases, files, and big data environments—whether assets are located in the cloud, virtual or traditional infrastructures. With this platform’s comprehensive, unified capabilities, you can efficiently scale to address your expanding security and compliance requirements, while significantly reducing total cost of ownership (TCO).

**Transparent Encryption** — Enables data-at-rest encryption, privileged user access control and the collection of security intelligence logs without re-engineering applications, databases or infrastructure.

**Tokenization With Dynamic Data Masking** — Helps security teams address its compliance objectives while gaining breakthroughs in operational efficiency. Remove databases from PCI DSS audit scope with minimal disruption and administrative overhead. By ensuring persistent security controls over data, no matter where it resides, Vormetric Tokenization enables organizations to fully leverage cloud services, big data analytics, and outsourced environments.

**Cloud Encryption Gateway** — Organizations can safeguard files in cloud storage environments, including Amazon Simple Storage Service (Amazon S3) and Box. The cloud security gateway solution encrypts sensitive data before it is saved to the cloud storage environment, enabling security teams to establish the visibility and control they need around sensitive assets.

**Application Encryption** — Simplifies integrating application-level encryption into existing corporate applications. The application encryption library provides a set of documented standard-based APIs used to perform cryptographic and encryption key management operations. Vormetric Application Encryption removes the complexity and risk of implementing an in-house encryption and key management solution.

**Security Intelligence** — Works with SIEM vendors to accelerate behind the perimeter threat detection and produces detailed file access and security information logs for auditors and compliance officers.

**Key Management** — Delivers consistent policy implementation between systems, reduces training and maintenance costs.

## COMPLIANCE MANDATES

Lawmakers and regulators around the world are enhancing existing compliance requirements, implementing new legal frameworks and defining new data security regulations. Vormetric Data Security provides the data protection functionality required to adhere to global compliance requirements.

**Compliance Scope** — With data masking and tokenization, remove data and servers from audit scope by securing data and the servers they reside on with minimum disruption and overhead.

**Payment Card Industry Data Security Standard (PCI DSS)** — Vormetric Data Security helps enterprises comply with PCI DSS requirements 3, 7 and 10 that call for the protection of cardholder information. Vormetric Data Security secures cardholder data in databases as well as voice files, reports, and images.

**HIPAA/HITECH** — Electronic Patient Health Information (ePHI) needs to have access controls and be secured to maintain compliance with HIPAA/HITECH. Whether unstructured medical imagery or structured database information containing ePHI, Vormetric secures and controls access to ePHI.

**FDA Title 21 CFR Part 11** — Encryption for stored information relevant to drug manufacturing & distribution.

**Financial Services/Government** — Vormetric Data Security enables enterprises such as financial services (Chinese Walls) and governments to meet data governance mandates by segregating data repositories so that departments or entities can only see data they own and not adjacent data.

**State Data Breach Notification Laws** — US states have data breach notification laws modeled on California SB 1386 that provides a safe harbor in the event of a breach where the underlying data is encrypted. Vormetric Encryption provides safe harbor and helps businesses avoid the cost and brand damage that comes with breach notification.

**National Data Protection Laws** — Nations around the globe are instituting data protection laws which mandate encrypting citizen personal information including UK Data Protection Act, EU Data Protection Directive and South Korea's Personal Information Protection Act. Vormetric Data Security secures personal information, be it structured (in databases) or unstructured data.

**Sarbanes-Oxley, Euro-Sox GLBA, Basel II & III** — Vormetric Data Security provides security, key management, access control and reporting so enterprises can demonstrate effective controls over sensitive information.

**Data Residency/Data Sovereignty** — With over 50, highly varied, national privacy laws in effect worldwide — enterprises, cloud providers and multi-nationals need to ensure that data does not inappropriately cross legal jurisdictions. Vormetric Data Security enables segregation and control of data access to meet their legal obligations — in many cases without changes to applications and infrastructure.

In addition numerous other compliance regimes mandate protection of data-at-rest that can be enabled with Vormetric. These include FedRAMP/NIST 800-53 requirements for US Federal agencies, FIPS 140-2 for security management environments, the Australia Privacy Act, the EU Data Protection Act, South Korea's PIPA and Singapore's MAS TRM.

## ABOUT VORMETRIC

Vormetric (@Vormetric) is the industry leader in data security solutions that span physical, virtual and cloud environments. Data is the new currency and Vormetric helps over 1,400 customers, including 17 of the Fortune 30 and many of the world's most security conscious government organizations, to meet compliance requirements and protect what matters — their sensitive data — from both internal and external threats. The company's scalable Vormetric Data Security Platform protects any file, any database and any application — anywhere it resides — with a high performance, market-leading data security platform that incorporates application transparent encryption, privileged user access controls, automation and security intelligence. For more information, please visit: [www.vormetric.com](http://www.vormetric.com).