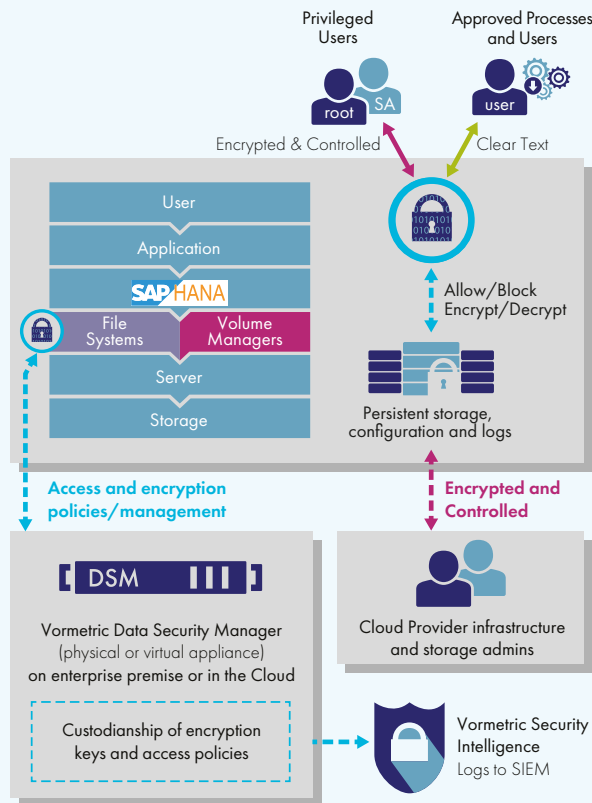# THALES

SOLUTION ESTABLISHES CONSISTENT AND COMMON BEST PRACTICES FOR MANAGING AND PROTECTING SENSITIVE DATA

> Encrypt structured and unstructured data and files in place
> Avoid need to re-architect databases, files, or storage networks
> Maintain database operational performance
> Provide granular and configurable auditing and reporting
> Facilitate compliance to growing data security mandates

SAP HANA

‹Thales eSecurity›

THALES AND SAP HANA SECURE DATABASE FILES WITHOUT AFFECTING BUSINESS OPERATIONS

The Vormetric Data Security Platform protects data and prevents unauthorized access, facilitating regulatory compliance without having to change database or hardware.

THE PROBLEM: COMPLIANCE DRIVERS FOR DATA SECURITY CAN AFFECT AVAILABILITY AND PERFORMANCE OF DATABASES.

Databases provides the operational heartbeat for many enterprises. These repositories can often contain large amounts of sensitive data regulated by internal governance rules and external compliance mandates. Evolving threat landscape and increased pressure from a growing data governance environment, is causing enterprises to mandate strong data security controls, including encryption over their data stores. Regulatory regimes like the US Health Insurance Portability and Accountability Act (HIPAA) and the Health Information Technology for Economic and Clinical Health (HITECH) act, as well as European legislation such as the UK Data Protection Act and EU Data Protection Directive, and the General Data Protection Regulation (GDPR), call for safeguarding individual data. However, security is often implemented at the cost of database performance.

THE CHALLENGE: SECURING SENSITIVE DATA WITHOUT AFFECTING PERFORMANCE.

Securing dispersed structured and unstructured data is a high-visibility tasks that must be done carefully. The optimal approach must satisfy privacy and audit requirements transparently to the database application, and with minimal impact on IT operations. Securing data with encryption meets compliance needs and complements Database Activity Monitoring (DAM) that secures against misuse of data, but these may not fully address regulatory requirements for data privacy.

THALES AND SAP HANA SECURE DATABASE FILES WITHOUT AFFECTING BUSINESS OPERATIONS

THE SOLUTION: SAP HANA AND THE VORMETRIC DATA SECURITY PLATFORM FROM THALES ESTABLISH CONSISTENT AND COMMON SECURITY BEST PRACTICES.

SAP HANA is an in-memory, column-oriented relational database management system that can be deployed on-premises or in the cloud. The system lets organizations accelerate business processes and deliver more intelligence. By providing a foundation for all data needs, SAP HANA removes the burden of maintaining separate legacy systems.

When deployed with the Vormetric Data Security Platform, security policies are create and enforce to protect data and prevent unauthorized system administrators, root users, and privileged users from gaining access to data. Data requiring protection to meet rigorous compliance requirements is secured without having to change the underlying database or hardware infrastructure. The approach provides granular and configurable auditing and reporting of access requests to data and changes to policies and keys to meet governance requirements. Whether securing an existing SAP deployment, or upgrading to a new version, the Vormetric Data Security Platform delivers a proven approach that can scale to thousands of systems and files and quickly secure SAP data while ensuring continued operation at optimal performance.

SAP environments supported by the Vormetric Data Security Platform include Oracle, DB2, Informix, MaxDB, and SQL Server databases. Operating systems include UNIX, Linux, and Windows. The SAP and Thales solution also supports files located in physical, virtual, and cloud environments.

WHY USE VORMETRIC DATA SECURITY PLATFORM WITH SAP HANA DATABASE?

Inserted above the file system and/or logical volume layers, the Vormetric Data Security Platform is transparent to users, applications, databases, and storage subsystems. Vormetric Data Security Platform minimizes administrative overhead with key and policy management providing a secure and easy method of administering encryption keys. The platform enables organizations deploying SAP to establish consistent and common best practices for managing the protection of both structured and unstructured data accessed by SAP systems.

Vormetric Data Security Platform protects data with file and volume level at-rest encryption, controls access, and provides data access audit logging – without having to re-engineer applications, databases, or infrastructures. The Vormetric Data Security Platform:

> Enables maximum utilization of native hardware encryption capabilities

> Protects against privileged escalation by OS root users

> Minimizes encryption impact on service level agreements and need for additional computer resources through use of a distributed agent-based deployment model

> Manages security and encryption policies, as well as, aggregate logging and reporting from a central location

The Vormetric Data Security Platform provides policy and encryption key management to deliver scalability, flexibility, and efficiency. When combined with SAP HANA the solution mitigates the risks of increasingly sophisticated advanced persistent threats. With software installed on servers or virtual machines to enforce data security and compliance policies, deployment is scalable and fast.

THALES

Thales eSecurity is the leader in advanced data security solutions and services delivering trust wherever information is created, shared, or stored. Security solutions ensure that critical data is both protected and trusted in any deployment – on-premises, in the cloud, in data centers, or in big data environments – without sacrificing business agility. Security professionals around the globe rely on Thales to confidently accelerate their organization's digital transformation. Thales eSecurity is part of Thales Group.

SAP

As a market leader, SAP develops enterprise software to manage business operations and customer relations. SAP is at the center of today's business and technology revolution with innovations that help over 350,000 customers worldwide to work more efficiently and use business insight more effectively.

For more detailed technical specifications, please visit **www.thalesesecurity.com** or **www.saphana.com**

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