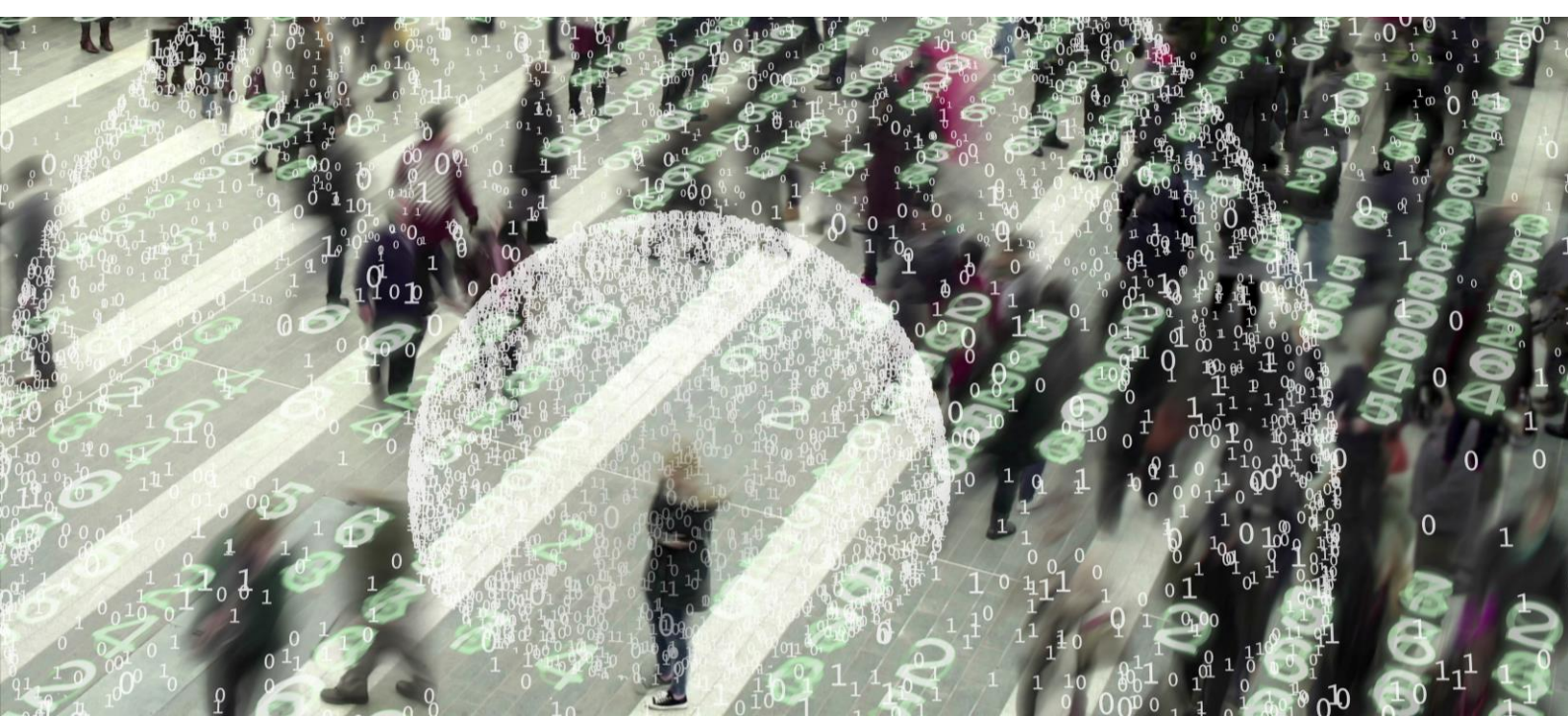


## Case study



# Utimaco HSMs and Randtronic DPM protect enterprise wide sensitive data – on premise and in the cloud

**The motivation: protection of sensitive data and encryption keys as a priority for enterprise customers**

Enterprise customers today collect, store and use an increasing amount of sensitive data. In this context, compliance requirements and technical complexity associated with data protection and cryptographic key management can have a significant cost impact for growing businesses. A trusted partner to ensure both compliance with government and industry requirements and the professional handling of encryption and key management are crucial to long-term growth and success.

**The challenge: trust and scalability required for protecting cryptographic key material**

Enterprise-wide data privacy management systems enable businesses to mitigate the risk of compromised data – whether structured or unstructured data and whatever its nature or storage location. Data encryption, masking, tokenization and anonymization are the cryptographic mechanisms used for data privacy protection. However, underlying cryptographic keys have to be securely stored and managed. This prevents theft or loss of the key material and, in the following,

the ability for a stranger to decrypt previously “securely” encrypted data. Otherwise, the security of the enterprise-wide ecosystem and end points might be at risk.

### The solution: hardware-enabled protection for sensitive data

Randtronics Data Privacy Manager (DPM) provides comprehensive data protection for sensitive information to facilitate data privacy and compliance on premises, in the cloud, or in hybrid cloud infrastructures. It is an inexpensive way to provide need-to-know access to internal and external users for ensuring data protection. Plug and play connectors and or APIs for files, folders, databases, web, app and the Utimaco Hardware Security Module (HSM) provide easy deployment, use and maintenance. Features such as policy-based access control, auditing, encryption, masking, tokenization and anonymization facilitate compliance with company-internal as well as government and industry security policies.

Integrated with the FIPS140-2 Level 3 validated Utimaco SecurityServer Se, Randtronics data privacy protection solution provides security and compliance. Only Utimaco delivers a general purpose HSM as a customizable platform for an easy and trouble-free integration.

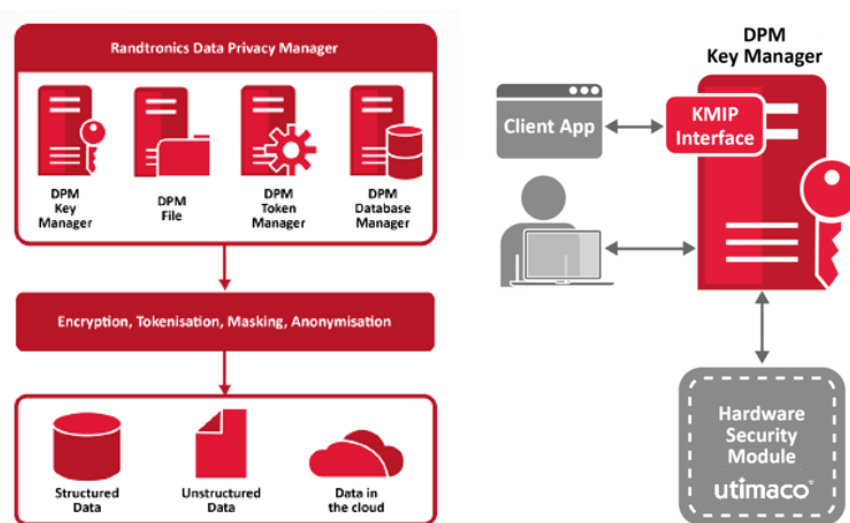
#### The technical solution

As inherent Root of Trust for their data privacy management program, Randtronics relies on Utimaco Hardware Security Modules to generate, store and manage cryptographic keys safely.

The DPM solution receives cryptographic keys from the DPM Key Manager, which in turn offers options of auto-generating keys in software or within the Utimaco HSM for highest security assurance. The HSM is the source of Master Key, System Keys, Key Encryption Keys and Data Encryption Keys.

Randtronics DPM runs on any Windows or Linux platform using standard hardware and software and commonly available databases such as MySQL, MS SQL and Oracle.

### The implementation: keys managed in an HSM for maximum security





## The success criteria: comprehensive, transparent, centralized & compliant

The Utimaco Hardware Security Module (HSM) and Randtronics DPM enables enterprise customers to:

- Securely manage their cryptographic keys by means of role-based access control mechanisms; only authorized users can access master keys for designated purposes
- Guarantee keys are securely and readily accessible whenever needed by DPM and non-DPM clients via policy-based plug and play connectors and API features
- Ensure segregation of duties between DPM clients and the DPM Key Manager, which integrates with the HSM for external hardware key generation
- Provide highest performance to support DPM performance requirements

### About Randtronics

Founded in 2002, Randtronics is a worldwide supplier that develops encryption solutions to protect against malicious intent from external hackers, internal employees and outsource contractors. Randtronics DPM protects enterprise data anywhere. The solution offers privacy levels, SSO, MFA, auditing, high performance, transparent implementation, privileged user protection and high availability. With Randtronics DPM solution you can: protect structured and unstructured data, easily deploy solutions without code changes and reduce scope of compliance using tokenization. For more information, visit [www.randtronics.com](http://www.randtronics.com)

### About Utimaco

Utimaco is a leading manufacturer of hardware-based security solutions that provide the root of trust to keep cryptographic keys safe, secure critical digital infrastructures and protect high value data assets. Only Utimaco delivers a general-purpose hardware security module (HSM) as a customizable platform to easily integrate into existing software solutions, embed business logic and build secure applications. With German precision engineering, tamperproof Utimaco HSM offers scalable performance with the highest level of physical security and self-defense for hostile environments. For more information, visit [hsm.utimaco.com](http://hsm.utimaco.com)