

Trustway DataProtect App

Trustway DataProtect App provides an interface for key management operations, as well as application-level encryption of sensitive data.



As sophisticated threats emerge and the risk of data exposure grows, encryption is the critical last line of defense when other security measures fail. Application encryption has become essential as it protects data at the earliest stages of the information lifecycle which helps organizations minimize risk, strengthen security, and meet regulatory and compliance mandates.

In combination with Trustway Dataprotect KMS based on certified architecture, Trustway DataProtect App meets the strictest international standards and brings the highest level of security of your application. Connected to Trustway Dataprotect KMS, Trustway DataProtect App brings to your organization a total protection of your application thanks to a centralized control of data access.

Secure sensitive application across its lifecycle

Trustway DataProtect App provides an interface for key management operations, as well as application-level encryption of sensitive data. The solution can protect both unstructured data types (e.g. Excel and PDF files) and structured data types (e.g. credit card numbers, social security numbers, national ID numbers, passwords). Encryption takes place as soon as data is generated or first processed, and it remains secure across its entire lifecycle no matter how many times it is transferred, backed up, or copied. The solution can be deployed in physical, virtual, and cloud infrastructures to keep data secure as it is migrated from one environment to another, without any modification to existing encryption policies or associated application code.

Trustway DataProtect App is deployed in tandem with Trustway Dataprotect KMS an enterprise key manager, based on a Common Criteria hardware architecture for centralized key and policy management across multiple sites. The solution enables the implementation of granular access controls that separate administrative duties from data and encryption key access. For example, a policy can be applied to ensure that no single administrator can make a critical configuration change without additional approval.

Trustway DataProtect App features built-in, automated key rotation and data re-keying and can also perform a wide range of cryptographic operations including encryption, decryption, digital signing and verification, secure hash algorithms (SHA) and hash-based message authentication code (HMAC). The solution provides a single interface for logging, auditing, and reporting access to protected data and encryption keys.

Highlighted capabilities

Transparent, strong and efficient application encryption

- Protect sensitive data with application-level encryption
- Securely manage keys centrally in an industry-leading, Common Criteria certified enterprise key manager.

Support for format preserving encryption (FPE)

- Flexible key management interfaces
- Multiple interfaces available for full key management lifecycle.

Broad standard and interface support

- Java, C/C++, NET
- XML open interface, KMIP standard
- Web services, including SOAP and REST.

Easy deployment and management

- Deploy in physical, virtual, and public cloud environments
- Built-in key rotation
- Customizable sample applications for quick, easy deployment.

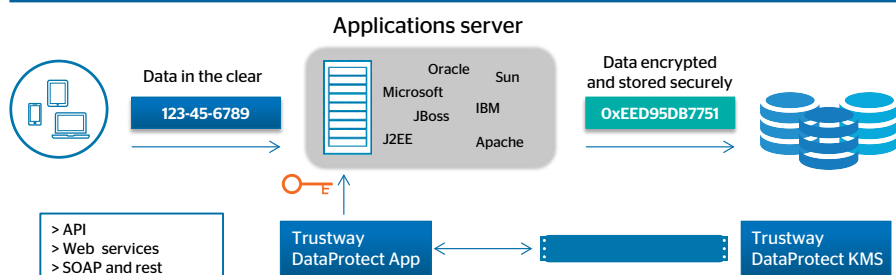
High performance

- Offload cryptographic processing to Trustway Dataprotect KMS
- Built-in health checking and multi-tiered load balancing.

Compliance Ready

- Ensure separation of duties
- Track data and key access with auditing and logging tools.

Trustway DataProtect App and Trustway Dataprotect KMS



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How Trustway DataProtect App can benefit your business

Strengthen security and ensure compliance

Trustway DataProtect App enables your organization to maximize security of data in applications running in physical, virtual and cloud data centers. Comprehensive logging and auditing capabilities let you track access to encrypted data and keys so you can effectively address your internal policies and all relevant regulatory mandates—including encrypting personally identifiable information (PII) and credit card information to comply with privacy mandates and the Payment Card Industry Data Security Standard (PCI DSS).

Centralize and streamline security administration

Through its integration with Trustway DataProtect KMS, Trustway DataProtect App provides the comprehensive coverage and integration that enables security teams to move away from disparate, point-based encryption deployments. Your teams can centrally manage

policies and keys, and, as a result, realize significant improvements in efficiency and productivity.

Leverage the cloud securely

Trustway DataProtect App, together with Trustway DataProtect KMS enable your organization to move forward with its cloud and virtualization initiatives—in any cloud provider—so you can fully leverage the business benefits without compromising security. You maintain full control and ownership of your data and encryption keys at all times.

Speed time to deployment

With its adherence to open standards, flexible integration support, sample applications, and central management, Trustway DataProtect App enables streamlined integration and fast deployment.

Optimize server performance

By managing, processing-intensive cryptographic operations on dedicated encryption appliances, Trustway DataProtect KMS offloads this workload from application servers, which helps your organization deliver fast responses to users and customers, and fully leverage your existing software and hardware investments.

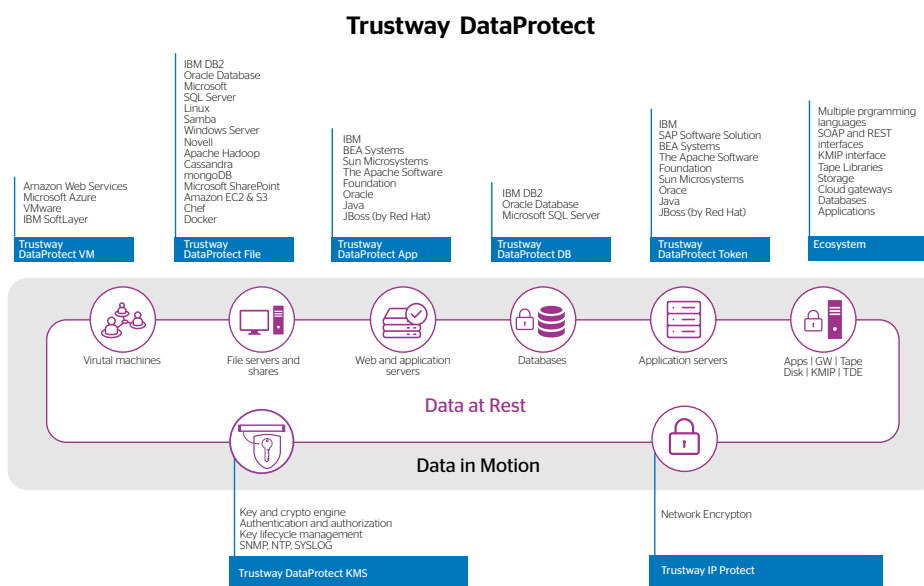
Native encryption ecosystem

Trustway DataProtect App APIs use open standards whose flexibility lets you join native encryption solutions (e.g. Linux Unified Key Setup (LUKS), MongoDB, Oracle TDE) with Trustway DataProtect KMS for fully consolidated key management across the organization. Sample code and SDKs make it easy for developers to incorporate encryption and key management into their applications.

Trustway DataProtect a scalable solution

Trustway DataProtect offers a comprehensive data encryption solution to guarantee data security and the control on the data access.

This solution provides the customer with the tools to the capabilities to encrypt all the data format as Virtual Machine, Database, File system, Application and Tokenization. Trustway DataProtect is a complete solution for cloud, virtual and on-premises infrastructures and is compliant with the most restrictive data privacy regulations as GDPR, HIPAA or PCI DSS.



Technical specifications

Features

Web application servers	Apache Tomcat, IBM WebSphere, JBoss, Microsoft IIS, Oracle WebLogic, SAP NetWeaver, Sun ONE
Cloud and virtual infrastructures	Works with all major cloud platforms, including AWS, Azure, IBM Cloud, Google and VMware
Development Libraries and APIs	Java, C/C++, NET, XML open interface, KMIP standard, Web services: SOAP and REST
Encryption Algorithms	Including 3DES, AES-256, SHA-256, SHA-384, SHA-512, RSA- 1024, RSA-2048, RSA-3072, RSA-4096
Supported Platforms for ICAP1 Provider	Red Hat Enterprise Linux 5.4 and above, Microsoft Windows 2003, 2008 R2, 7 in both 32-bit and 64-bit
Certificates	X509, PKCS1, PKCS8, PKCS12, Export, Import, MonitorSize and Weight

More information:

atos.net/data-encryption-trustway-dataprotect

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