

Trustway DataProtect Token

Trustway DataProtect Token is a solution to protect your sensitive information by replacing it with a surrogate value that preserves the length and format of the original data.



As the volume and value of your organization's data continues to grow, you can no longer rely solely on perimeter-based security to protect it from the lasting impact of a breach. Tokenization replaces sensitive data with a unique token that is stored, processed, or transmitted in place of the clear data. A popular choice with the payment card industry to secure primary account numbers (PAN), tokenization can be used to protect other types of high-value data.

In combination with Trustway DataProtect KMS based on certified architecture, Trustway DataProtect Token meets the strictest international standards and brings the highest level of security of your data.

Tokenize and secure sensitive data

Trustway DataProtect Token uses Format Preserving Tokenization (FPT) to preserve sensitive data's length and format in order to minimize the need to modify applications, databases and legacy systems that will store, process, or transmit the associated token. The solution offers unlimited data type support, including numeric data with spaces or dashes (e.g. credit card numbers, social security numbers), alphanumeric data (e.g. passport, account, email addresses, dates) and original data retrieval formats, such as full clear value or masked. Data can be tokenized in a variety of formats, such as last four, first six, custom formats and regular expression.

Trustway DataProtect Token is easily deployed across on-premises, virtual, and public cloud environments, and works with Trustway DataProtect KMS, an enterprise key manager based on certified architecture that provides centralized key and policy management. The solution protects products such as SAP, and is compliant with PCI Tokenization Guidelines and VISA Tokenization Best Practices. It is ideal for organizations looking to significantly reduce regulatory scope, facilitate the annual audit process, and reduce total cost of ownership.

Vaultless tokenization functionality gives customers an option to deploy easily across multiple sites (e.g. data centers, public and private clouds). Compared to the vaulted approach, vaultless tokenization can offer higher performance and scalability that makes it well suited to secure big data solutions such as Hadoop distributions.

Highlighted capabilities

Transparent, strong and efficient application encryption

- Replace sensitive data with a token that can be securely stored, processed and transmitted
- Apply granular access controls to ensure only authorized users or applications can view tokenized data
- Centralize key management across multiple sites with an industry-leading enterprise key manager
- Leverage bulk tokenization utilities and batch APIs.

Unlimited data type and broad token format support

- Tokenize primary account numbers (PAN), as well as other data types (PCI, PII, PHI, etc.) in any environment, including payment systems and big data implementations
- Support a wide variety of token formats, including regular expressions and customized formats.

Support cloud initiatives

- Deploy in on-premises, virtual and public cloud environments
- Set up tokenization in the cloud more quickly with readily available Chef recipes for easy automation.

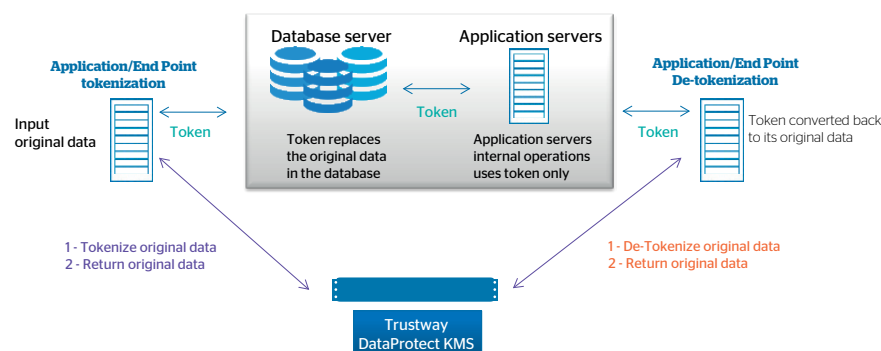
Ensure easy deployment and management

- No changes required to applications, databases, and legacy systems with Format Preserving Tokenization (FPT)
- Web services (SOAP and REST APIs) provide fast, cost-effective deployment
- Built-in, automated key rotation and data re-keying.

Achieve compliance

- Reduce audit scope and related operational costs
- Track access to tokens and protected data with comprehensive auditing and logging capabilities.

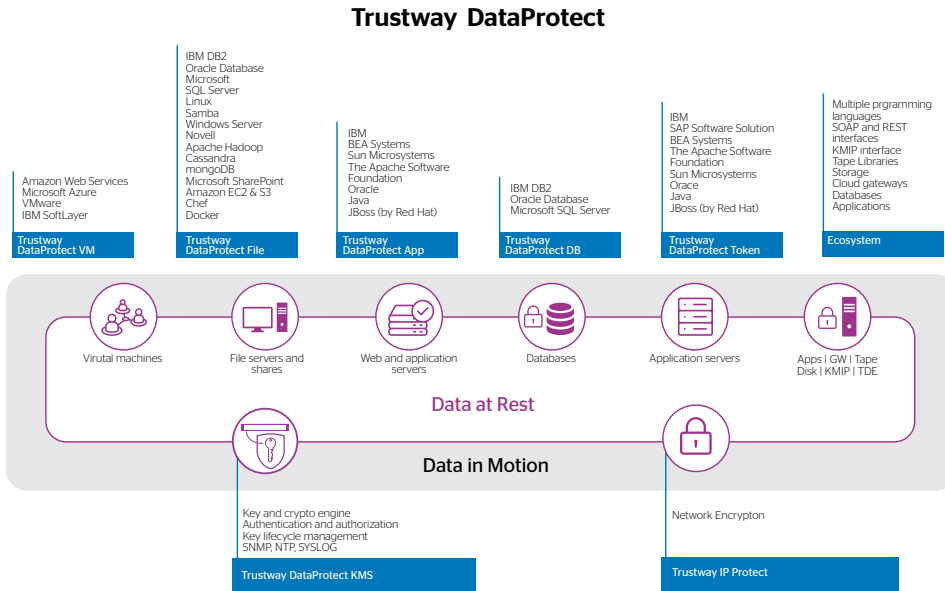
Trustway DataProtect Token & Trustway DataProtect KMS



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

Format Preserving Tokenization	<ul style="list-style-type: none"> Complies with PCI Tokenization Guidelines for token identification via token masking and Luhn algorithm pass/ fail checks Supports multiple tokens vaults Highly scalable - can generate and retrieve millions of tokens/per day for best performance
Supported Token Vault Databases	<p>Microsoft SQL Server, Oracle, MySQL, Cassandra</p> <p><i>Note: all tokenization forms are supported on all databases as long as the vault itself is on Microsoft SQL Server, Oracle, MySQL or Cassandra</i></p>
Supported APIs	Web services: SOAP, REST/JSON, Java, NET
Enhanced event logging and monitoring functionality	<p>Complies with PCI tokenization manager event monitoring specifications</p> <p>Supports SNMP for online monitoring and alerting</p>
Token Formats	<ul style="list-style-type: none"> Random or Sequential token generation Masked: Last four, First six, First two, etc. Fixed length and width masking Customer defined custom formats Cryptographic hash functions, including SHA2-256, SHA2-284, SHA2-512, and Base16/Base64 Regular expressions (Java style)

Find out more about us
atos.net/en/products/cyber-security/data-encryption/trustway-dataprotect-tokenization