Entrust KeyControl Vault for Tokenization

Protect sensitive data with format-preserving encryption and data masking

Overview

Ensuring data security is a critical necessity for modern-day businesses. Organizations can, and should, leverage various technologies to safeguard their sensitive information. Tokenization, first implemented in the early 2000s, is among the most widely adopted security techniques used today. It minimizes the amount of sensitive information that merchants and payment processors need to store and reduces the risk of data breaches.

Tokenization substitutes sensitive data like personally identifiable information (PII) and other confidential datIts corresponding tokens. Offering a more secure approach, it removes a single point of failure while reducing the risk of a data breach. This method offers enhanced scalability and flexibility.

By leveraging the Entrust KeyControl Vault for Tokenization, businesses can implement vaultless tokenization with dynamic data masking to safeguard their sensitive data.

KEY FEATURES

- Pseudonymizes and masks sensitive data while maintaining data format
- RESTful API enables integration of multiple programming language environments and reduces development effort and lead
- Supports multiple character sets, including alphanumeric, numeric, numeric-Luhn, Chinese, Japanese, Korean, Thai, Vietnamese, and more
- Highly available, scalable, and stateless solution
- Supports separation of duties, least privilege, dual control, and multitenancy
- Strong key protection using a FIPS 140-2 virtual appliance
- (Optional) Hardware key protection using FIPS 140-2 Level 3 certified HSMs
- (Optional) Automated compliance engine for PCI DSS, DISA STIG, NIST 800-130, HIPAA, and other standards

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Benefits

Facilitates compliance with PCI DSS and other standards. Tokenization can help organizations minimize the expenditure and resources necessary to adhere to internal security policies and regulatory requirements such as the Payment Card Industry Data Security Standard (PCI DSS) and the European Union's General Data Protection Regulation (GDPR). In the case of PCI DSS, tokenization simplifies compliance efforts by reducing the number of system components for which PCI DSS requirements apply.

Highly scalable and flexible solution for safeguarding structured data. Traditional, vault-based toke4.7 (y S)1nrav921 (e)-6.6121 .6 Q47.3 ()6 445.(d)9 (6 (n)3)-5.4 (p)-1.9 (e t)2.9 (o)-3. (,)-2.9 (t)10

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