

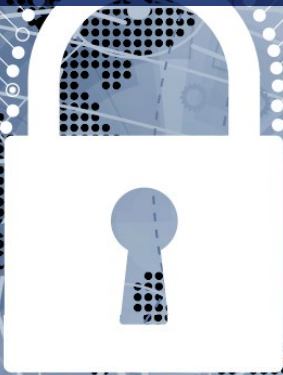


SECURITY BY DESIGN:

Defending our clients by protecting their clients

# RIXON

## RIXON TECHNOLOGY ENTERPRISE VAULTLESS SMART TOKENIZATION SOLUTION



RIXON TECHNOLOGY offers a patented cloud-based security solution that enables an organization to secure its data from unauthorized access. This state-of-the-art security solution offers access to a vaultless, format-preserving, smart tokenization process that is high-speed, seamless, customizable and scalable. The Rixon Technology solution is also completely transparent to the authorized user or application. Through the Rixon Technology solution, an organization can replace raw data with tokens it has uniquely configured to meet its security and risk tolerance requirements. As a result, only authorized individuals and applications have access to secured information through a multi-factor process.

## WHAT IS A TOKEN?

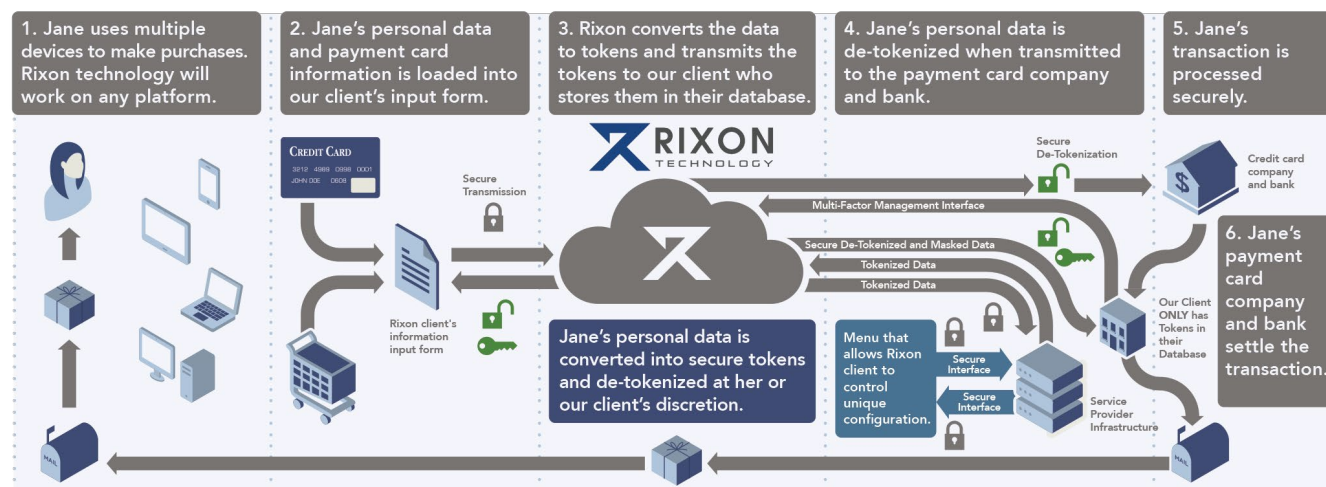
Tokens are unique identifiers or symbols that are substituted for raw data. Tokens permit the storage, processing, and transporting of confidential protected information without compromising its security. To a hacker, the Rixon Technology generated token appears to have the same format and appearance as the raw data, but the token is useless to the hacker or an unauthorized user unless it is de-tokenized to its original raw data form.

## FEATURES OF THE RIXON TECHNOLOGY SMART TOKEN

The Rixon Technology smart token enables an organization to customize the tokenization and de-tokenization process. The tokenization of raw data is completely customizable and controlled by the organization. For instance, an organization will define the scope and complexity of the tokens, define the policies (rules) to be applied to the tokens, and define the proxy (network access requirements) to be used in tokenization and de-tokenization of its raw data.

The Process

## Secure & Seamless



## THE UNIQUE FEATURES OF RIXON TECHNOLOGY



### Multi-Factor Data Access

Multi-Factor data access permits the parties to identify and configure the parameters for the tokenization and de-tokenization process. The Rixon Technology solution uses an industry-first, multi-factor data access feature that requires multiple parties to participate in all data access processes. As a result, an organization can realize zero risks to the transmission and processing of sensitive raw data.



### Universal Compatibility

Rixon Technology recognizes the importance of maintaining data security regardless of the platforms (i.e., Internet-enabled devices) used by an organization to process or store sensitive raw data. The Rixon Technology solution is one of the few universally compatible tokenization services. This feature is critical and invaluable in light of the fact that cyber-adversaries indiscriminately target any and all platforms in which vulnerabilities can potentially be exploited; thus, the use of one platform over another does not guarantee an organization is immune to a data breach. The design of the Rixon Technology solution provides secure data access across all platforms. Notwithstanding the use of different platforms by different organizations, the Rixon Technology tokenization solution is available to any organization with a platform that enables access to the Internet and the ability to make an HTTP request.



### Enhanced Data Access Visibility

The Rixon Technology solution also includes enhanced data access visibility features. Full visibility of all data access processes is necessary for an organization to realize optimum data security. Optimal visibility enables an organization to pinpoint the users accessing specific data, as well as the specific date, time and location of data access. Enhanced data access visibility provides necessary access logs for an organization to continuously monitor and analyze how its users are interacting with its data and various processes. Such enhanced data access visibility features are essential data security tools in determining the root cause of a security event and facilitation of data security audits.



### Enterprise Business Continuity

Rixon Technology is the only tokenization service that provides 100% data continuity to its users. Data continuity is key to enabling an organization to resume critical operations following a business disruption, such as a natural disaster or cyber-attack. Any potential concerns by an organization regarding loss of data control by tokenizing its raw data are non-existent under the Rixon Technology solution.

In particular, the subscription plans offered by Rixon Technology provide a “source in escrow” option. This option provides organizations with access to a fully escrowed running standby environment – *an industry first feature*. Under this unique Rixon Technology solution feature, the source, documentation and running environment are continually accessible to an organization’s enterprise. Thus, in addition to heightened data security, the Rixon Technology solution also provides continual data availability to facilitate critical business continuity.

### Utilizes Encryption and Smart Tokenization Features

Encryption, when used by an organization as its solitary security solution, provides a weaker data security outcome due to the reliance of encryption on mathematical algorithms or computations to secure real data values. Thus, if an organization’s enterprise relies solely on encryption, it remains vulnerable to a breach by a hacker who is able to compromise the encryption keys to easily access the actual raw data. In contrast to encryption, the tokenization of raw data preserves the original data formats through the use of generated tokens as placeholder or replacement values that do not directly correlate with the real data for which they are substituted. Thus, the vulnerabilities of the use of encryption alone are significantly eliminated. Under the heightened security posture provided by tokenization, if a cybercriminal compromises or steals a token, there is zero access to the raw data.

The Rixon Technology solution utilizes an encryption key management platform that enables an enterprise to encrypt or tokenize raw data, or use a combination of both security solutions. When both encryption and tokenization are used by an organization, the two security methods form a security barrier that makes sensitive raw data inaccessible in a usable form. In addition, the two security methods also protect raw data in a form that is outside the scope of many industries audit and compliance requirements for the storage, processing and transmission of raw data.

## HOW IS RIXON TECHNOLOGY DIFFERENT?

### How Safe is Your Data?

Other tokenization solutions merely transfer the risk of a data breach from the organization to the token service provider, which does little to address security risks to an organization's raw data. Thus, under other token service providers, an organization may inadvertently assume that a tokenized service will not expose its raw data,<sup>1</sup> and assume its data will be available from the token service provider at all times (24/7/365-availability).

### Control your Data, Control your Risk

The Rixon Technology solution does not store raw data or tokens on behalf of an organization. This means tokenized data cannot be accessed through the service. Instead, under the Rixon Technology solution, raw data is converted (but not stored) through the cloud-based service to a smart token that is customized and scalable by the organization. Under this solution, sensitive raw data is substituted with smart tokens that are stored on the organization's own systems. Access to the tokenization or de-tokenization cloud-based process is through a multi-factor data access feature that is unique to Rixon Technology. Thus, an organization is able to: maintain full control of the tokenization and de-tokenization of its raw data, replace sensitive raw data on its enterprise with smart tokens, and globally access the Rixon Technology cloud-based solution on 24/7/365 basis.

*“An organization cannot transfer liability for a breach of its sensitive data.”*

<sup>1</sup>It should be noted that an organization cannot transfer liability for a breach of its sensitive raw data. If the third-party vaulted tokenization service has a breach, the organization remains directly liable for the breach to its customers for any loss, not the token provider.

## INDUSTRY-LEADING FEATURES OF RIXON TECHNOLOGY

The Rixon Technology solution goes further than traditional tokenization solutions in solidifying an organization's cyber-security barriers by providing industry-leading features that deliver high-performance levels and continual data availability while maintaining data durability.

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**Vaultless Service.** The Rixon Technology solution does not store raw data or tokens. Moreover, the Rixon Technology solution does not and cannot access an organization's raw data.

**Format-Preserving.** The Rixon Technology solution can be implemented without the need to change the applications or databases within the organization. The tokens inherit the characteristics of the raw data (e.g. numerical).

**Smart Tokens.** The Rixon Technology solution permits an end-user to configure the tokenization and de-tokenization of its raw data to meet the specific data protection needs of the organization. The tokenization process is controlled by the organization by customizing the token to be applied to its raw data, defining of the policies (rules) to be applied to the tokens, and defining of the proxy (network access) required to access the tokenization service.

**Unlimited Scalability.** The Rixon Technology solution is capable of limitless scalability to match each organization's tokenization and system resource demands. Whether large or small, the Rixon Technology solution will scale accordingly. In contrast, traditional tokenization services operate in

an appliance-based (non-cloud) environment that is restricted by resource constraints that typically struggle to accommodate increasing data loads and speed. Rixon Technology provides high scalability that is well equipped to handle the increasing data workload of an organization.

**Sub-Second Response Time.** Rixon Technology offers an industry-leading tokenization or de-tokenization process that limits system degradation. The sub-second average response time of the Rixon Technology solution is greater than 2.5 million tokens per second. As a result, the Rixon Technology solution can tokenize large data sets with trace latency. Moreover, the Rixon Technology solution has an industry-leading uptime of 99.9999% data durability.

**24/7/365 Global Availability.** Rixon Technology is cloud-based. This key feature enables Rixon Technology to provide organizations with additional benefits, such as elasticity and scalability. The broad network access of a cloud-based resource enables Rixon Technology to offer higher performance and continual data access from any location at any time in comparison to conventional tokenization services.

## RIXON TECHNOLOGY IS MORE THAN A TOKENIZATION SOLUTION

Today, regardless of industry, most organizations are subject to significant and substantial compliance regulations, including the Payment Card Industry Data Security Standard (PCI/DSS), General Data Protection Regulation (GDPR) and the Health Information Portability and Accountability Act (HIPAA). Compliance with such standards and regulations is costly in terms of financial and time resources for an organization. The Rixon Technology vaultless smart tokenization solution protects data in a manner that is not subject to the same compliance scrutiny, which results in decreased cost and time obligations for an organization.

*Rixon enables every type of organization to meet all of its data security needs and requirements*



### GDPR Compliance

Organizations can leverage the Rixon Technology solution to comply with GDPR obligations. The GDPR recommends and accepts pseudonymization as a means of compliance. The Rixon Technology solution contains the ability to pseudonymize raw data. However, above and beyond this basic compliance feature, the Rixon Technology solution also offers the more advanced ability to fully anonymize raw data. The ability to anonymize raw data enables the Rixon Technology solution to offer a more advanced, more accessible, more precise, and more cost-effective method of protecting sensitive raw data.



### Securing Payment Card Data

An organization receiving or handling payment card data is required to protect such data in accordance with the PCI/DSS regulations. The Rixon Technology solution offers both encryption and tokenization security features to enable an organization to secure payment card data. As such, an organization can realize increased data security and compliance with the PCI/DSS.



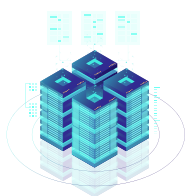
## Protecting Cloud-Based Data

In general, the choice of security method used by an organization (i.e., encryption or tokenization) depends on the security levels of the data an organization is seeking to secure. To achieve maximum security, some organizations combine both encryption and tokenization. The Rixon Technology solution not only offers both security features, but it offers such features in a cloud-based environment.



## Securing E-Commerce Platforms

The Rixon Technology solution also contains an iFrame integration feature that provides additional security to eCommerce platforms. The iFrame integration feature provides an organization with increased levels of control over the data it transmits through eCommerce platforms. Additionally, the Rixon Technology iFrame integration feature also enables an organization to achieve a PCI SAQ A Certification.



## Benefiting Multiple Industries

The ability of the Rixon Technology solution to customize an organization's security policies and tokens is a feature that is applicable to organizations across multiple industries. The Rixon Technology solution supports PHI, PCI and PII data types. In addition, the Rixon Technology solution not only enables organizations to restrict access to sensitive raw data by IP address or geographical location, but it also provides data security and performance at scale.

Visit us at [rixontechnology.com](https://rixontechnology.com) to learn more.

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