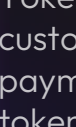
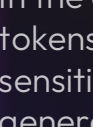


Payment Tokenization 101 for Merchants



What is Payment Tokenization?

Tokenization protects businesses and customers by replacing sensitive payment data with a secure, randomized token. This process is essential for reducing fraud, maintaining PCI compliance, and enabling seamless payments like subscriptions and cross-platform checkouts.



What are Payment Tokens?

In the ecommerce landscape, payment tokens are digital stand-ins that replace sensitive payment details with randomly generated values. The primary types are PSP (Payment Service Provider), universal, and network tokens. The best choice depends on your specific business needs.

How are tokens issued?

Step 1

Customer provides payment info during checkout.

Step 2

Data is securely sent to a tokenization provider.

Step 3

A unique token is generated and returned.

Step 4

The merchant stores the token, replacing the sensitive data in their systems.



Types of Payment Tokens

PSP TOKENS

Issued by:

A single Payment Service Provider (PSP).

Key trait:

Confined to that provider's ecosystem. Also known as gateway or PCI tokens.

Best for:

Small to medium-sized businesses operating entirely within one PSP's platform.

UNIVERSAL TOKENS

Issued by:

A platform independent of any single PSP.

Key trait:

Portable across different PSPs, gateways, and sales channels. The merchant retains full control over the token's lifecycle.

Best for:

Global retailers who want to avoid vendor lock-in; any platform, marketplace, or merchant seeking flexibility and scalability.

NETWORK TOKENS

Issued by:

Card networks (e.g., Visa, Mastercard).

Key trait:

Replaces the Primary Account Number (PAN) with a unique, network-generated value. The card network manages the entire token lifecycle.

Best for:

Subscription services, streaming platforms, and other card-on-file business models that want to maximize payment success rates.

Tokenization on the rise

With the tokenization market growing at over 20% annually, its adoption is accelerating. Payment tokens themselves are digital stand-ins for card details, with different types—such as PSP, universal, and network tokens—suited for specific business needs.

2X

Global network tokenized transactions will double by 2029.

62%

of merchants in

retail and e-commerce used tokenization in 2025 to secure customer data.

92%

of financial

institutions consider tokenization a core strategy for compliance with PCI DSS standards.

Benefits and Limitations of Different Token Types

	PSP TOKENS	UNIVERSAL TOKENS	NETWORK TOKENS
Benefits	<ul style="list-style-type: none">• Quick to implement• Security and token vault responsibilities are offloaded to the PSP	<ul style="list-style-type: none">• Ideal for multi-provider setups• Add or switch providers without re-tokenizing card data• Easily expand into new regions	<ul style="list-style-type: none">• Ideal for multi-provider setups• Increased authorization rates• Greater security/reduced fraud• Full life cycle management• Shifts chargeback liability to the issuing bank
Limitations	<ul style="list-style-type: none">• Low flexibility limits business growth and portability	<ul style="list-style-type: none">• Requires initial integration effort with the help of a provider	<ul style="list-style-type: none">• Not yet at 100% adoption—meaning not all cards can be tokenized

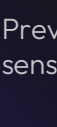
Who should consider payment tokenization?

Virtually Every Modern Merchant

With over 62% of ecommerce businesses and 92% of financial institutions already using it, tokenization is a cornerstone of secure, efficient payments.

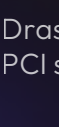


Business Outcomes



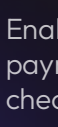
Strengthened Security

Prevent fraud and protect sensitive data.



Simplified Compliance

Drastically reduce PCI scope.



Enhanced UX

Enable seamless recurring payments and cross-platform checkouts without exposing raw financial data.

IXOPAY offers over a dozen token schemes to meet unique business needs, including alphanumeric characters, preserving the first six or last four of the PAN, all numeric characters, and more.

[Learn More](#)

The Winning Strategy

Merchants should align their tokenization strategy with their business model, scale, and flexibility requirements. For maximum flexibility and future-proofing, combine universal tokens (for vendor independence) with network tokens (for higher approval rates). This powerful duo delivers the best of both worlds: robust security, increased authorizations, reduced costs, and unparalleled reliability.

