Payment Account Tokenization (PAT) helps financial institutions combat the rising levels of account-based fraud.

Leveraging Visa’s proven tokenization technologies, clearing houses and central banks can replace sensitive account data with a token, in addition to requesting tokens directly and benefiting from automated in-network tokenization.

Enable safe and secure automated clearing house (ACH) and real-time payments by tokenizing account credentials

**Potential benefits**

**Limit breach impact**
Remove storage of sensitive account information to deter hacking and limit breach impact.

**Protect transactions**
Tokenize credentials to prevent fraudsters using stolen account numbers to make payments.

**Enable innovation**
Create new, secure payment services and flows, such as eCommerce, mobile payments and P2P.

**Increase control**
Limit the scope of tokens to specific times, channels, merchants and amounts.

**Maintain legacy flows**
Route tokens through existing payment systems networks as normal.
How it works

The below diagrams outline two ways that PAT can be implemented to combat fraud for real-time and ACH payments. In-network tokenization sees the central operator take ownership of tokenizing account credentials once a payment has been initiated. For direct tokenization, the originating bank tokenizes the account data and stores the token for use when a payment is initiated.

In-network tokenization

1. Originating bank sends payment to central operator
2. Central operator identifies sending account as ‘to be tokenized’ and requests token
3. PAT validates domain restrictions and optionally detokens the receiver
4. PAT returns payment with tokenized account
5. Central operator sends payment with tokenized account to receiving bank

Direct tokenization

1. Originating bank requests a token from PAT with additional constraints such as maximum value and counterparty restriction
2. PAT generates a token based on the request parameters and returns token to originating bank
3. Originating bank forwards the payment instruction, using the token receiver account
4. The central operator identifies tokenized transaction and forwards this to PAT
5. PAT validates domain restrictions and optionally detokens the receiver
6. PAT returns modified sender and receiver data to the central operator
7. Central operator constructs an instruction, evaluates advice and forwards message to receiving bank

Features

- **Lifecycle management**
  Quickly and easily suspend, (re)activate or unlink tokenized bank account numbers.

- **Domain controls**
  Enable token parameters that restrict usage to specific times, channels, merchants and spending limits.

- **Cryptogram protection**
  Generate application cryptograms in advance and validate these during the transaction process.

- **Seamless integration**
  Implement tokens without disruption of existing transaction flows.

- **Token vault**
  Manage a secure database that establishes, maintains and maps payment token value.

Learn more

For more information, contact your Visa Account Executive or [click here to fill out our online enquiry form](#).