

The Convergence of Instant Payments, Stablecoins, and Central Bank Rail Access:

A Strategic Roadmap for Financial Infrastructure Investments



BUILDING THE NEXT GENERATION
OF TRUSTED, INTEROPERABLE, AND INCLUSIVE
FINANCIAL INFRASTRUCTURE

Introduction: The Structural Convergence of Sovereignty and Programmatic Value

The global financial system is experiencing a fundamental structural realignment, driven by the simultaneous maturation of domestic real-time sovereign payment networks, the institutional scaling of global stablecoin liquidity, and an administrative reorganization of central bank rail access.¹ This convergence represents a major shift in how money is processed, settled, and programmed.⁴ Historically, sovereign fiat settlement networks operated as highly regulated, slow-clearing systems.⁶ In contrast, decentralized programmable ledger environments operated on the margins of regulated banking, subject to volatility and regulatory uncertainty.⁴

In 2026, these two environments are merging.¹¹ This integration is transitioning from isolated proof-of-concept pilot programs to production-ready enterprise workflows.³ The shift is driven by corporate demand for real-time liquidity, clear statutory frameworks, and federal executive intervention designed to modernize traditional financial plumbing.¹¹ Just as the emergence of the SWIFT network in the 1970s reshaped global transaction processing, this digital payments paradigm is establishing a hybrid financial market structure.¹⁶ Under this model, on-chain programmable assets settle directly against central bank liquidity rails.¹¹

For corporate treasurers, commercial banking executives, and financial technology developers, this convergence introduces a complex array of capital deployment choices.¹² Navigating this landscape requires a deep understanding of the differences between domestic and international rails, the legal-regulatory frameworks of digital assets, and the operational risks of sub-second settlement.¹⁴

The Dual-Engine Architecture of U.S. Domestic Instant Payments: RTP and FedNow

The domestic real-time payments landscape in the United States is defined by two primary clearing and settlement systems: the privately operated Real-Time Payments (RTP) network, managed by The Clearing House, and the publicly operated FedNow Service, managed by the Federal Reserve.¹⁹ Both networks operate continuously on a 24/7/365 basis, utilizing the ISO 20022 messaging standard to enable instant, irrevocable settlement of funds within seconds.²⁰ However, their adoption paths, participant profiles, and transactional capacities differ significantly.¹

The RTP Network: Enterprise Scale and Liquidity Dominance

Launched in 2017, the RTP network represents the mature private-sector real-time payments framework in the United States.¹⁹ Developed by a consortium of the nation's largest commercial

banks, the network has achieved near-universal reach across the domestic banking system.⁶ As of March 2026, the RTP network connects over 1,200 participating financial institutions, covering approximately 90% of all demand deposit accounts (DDAs) in the country.²⁰

The scale of transaction flows moving through the RTP network indicates its central role in corporate cash management.²⁰ In the first quarter of 2026, the RTP network processed 128 million transactions, totaling \$480 billion in settled volume.²⁰ This represents a daily average settlement value of approximately \$5.7 billion.²⁰ The expansion of the network's transactional limit to \$10 million in February 2025 acted as a critical operational catalyst.¹ By raising the ceiling from its historical limits, The Clearing House successfully captured high-value business-to-business (B2B) transaction flows, commercial real estate settlements, and wholesale treasury reallocations that previously relied on legacy wire transfers or multi-day ACH batches.¹²

The FedNow Service: Rapid Integration and Public Sector Scaling

The Federal Reserve's FedNow Service, which launched on July 20, 2023, is scaling rapidly to establish a neutral, public-sector alternative for instant clearing.²⁰ While its initial launch limits restricted its utility for commercial enterprises, FedNow has expanded its footprint through extensive community bank onboarding and significant limit increases.¹ By 2026, the Federal Reserve has raised the FedNow transaction ceiling to \$10 million, aligning it with the RTP network and removing a key differentiator that previously favored the private rail.¹²

During the 2025 calendar year, the FedNow Service settled 8.41 million payments, representing an annual volume growth of 458.9% over 2024.²⁴ The total value of settled payments reached \$853.41 billion, a 2,134.2% increase compared to the previous year.²⁴ This growth momentum continued into the first quarter of 2026, with FedNow processing 2.72 million transactions totaling \$271.25 billion.²⁴

While FedNow's quarterly volume represents a fraction of RTP's transaction throughput, its settled value has climbed to over 56% of RTP's total.¹ This indicates that FedNow is increasingly being utilized for high-value wholesale and institutional transfers, driven by larger financial institutions using the network for intraday liquidity adjustments and instant federal disbursements.¹

The federal government's direct participation in the FedNow network has provided a strong stamp of systemic validation.²⁵ In October 2025, the U.S. Department of the Treasury's Bureau of the Fiscal Service integrated the FedNow Service into its Digital Payout program.²⁵ This integration enables federal agencies, including the Federal Emergency Management Agency (FEMA), to bypass physical check-mailing and legacy ACH schedules to distribute disaster recovery payments and critical public aid directly to citizens' accounts within five seconds.²⁵ This deployment has converted emergency federal disbursements from a multi-week administrative bottleneck into an instantaneous, fraud-resistant digital workflow.²⁵

Architectural Dispersal and Institutional Onboarding

As of mid-2026, the combined instant payments ecosystem in the United States features more than 2,100 financial institutions operating live on real-time rails.²⁰ The participant demographics of the two networks highlight an institutional division.¹⁹ RTP’s participant base is heavily concentrated among major commercial banking institutions, providing deep demand deposit coverage.¹⁹ Conversely, the majority of FedNow’s 900+ active participants are community banks, credit unions, and mid-sized depository institutions.¹ These institutions favor the Federal Reserve's neutral infrastructure and its integration with existing FedLine connections.¹² Because the two networks operate on separate, non-interoperable rails, corporate treasuries and financial technology developers are increasingly adopting "multi-rail" routing architectures.¹² This approach ensures maximum destination reach and operational redundancy.¹²

Feature	RTP Network (The Clearing House)	FedNow Service (Federal Reserve)	Same-Day ACH	Legacy Wire (Fedwire)	Credit Card Networks
Operator Class	Private Banking Consortium ¹⁹	Federal Reserve System ¹⁹	NACHA / Federal Reserve	Federal Reserve ¹⁷	Private Card Schemes
Settlement Velocity	Instant (<5 Seconds) ⁶	Instant (<5 Seconds) ⁶	Same-Day Batch Clearing	Real-Time Gross Settlement	Delayed (1-3 Days Funding) ²⁰
Operational Hours	24/7/365 Continuous ⁶	24/7/365 Continuous ⁶	Business Hours Only	22 Hours/Day (Mon-Fri) ²⁷	24/7 Authorization, Delayed Clearing
Transaction Limit	\$10,000,000 ²⁰	\$10,000,000 ¹²	\$1,000,000	Unlimited	Variable / Portfolio Dependent

Feature	RTP Network (The Clearing House)	FedNow Service (Federal Reserve)	Same-Day ACH	Legacy Wire (Fedwire)	Credit Card Networks
Data Standard	ISO 20022 Rich Payload ²⁰	ISO 20022 Rich Payload ²⁰	EDI / Limited Packets	Proprietary Fedwire Format	ISO 8583 Card Formats ²⁸
Live Participants	1,200+ Institutions ²⁰	900+ Institutions ²⁰	~10,000 FIs (Universal)	~10,000 FIs (Universal)	Merchant Acquirer Ecosystem
Core Use Case	Commercial B2B, High-Value ²⁰	Retail, Community B2B, Govt ¹	Payroll, Standard Bills	Interbank Settlements	Consumer POS, Retail Commerce

Operational Economics and Merchant Cost Savings

The economic implications of real-time account-to-account (A2A) payment rails represent a fundamental shift in how commercial enterprises manage transaction expenses, credit risk, and working capital.¹³ For decades, the retail and business-to-business payment ecosystems have been dominated by card networks and batch-processed clearing houses.²⁹ The high fees associated with these models have acted as a persistent drag on corporate operating margins.¹³

Bypassing Card Interchange and Legacy Deductions

Traditional commercial credit card transactions impose a steep, percentage-based cost structure on merchants, typically ranging from 2.5% to 3.5% of the total transaction volume in interchange and processing fees.¹³ In contrast, real-time domestic rails (both RTP and FedNow) utilize a flat, transaction-agnostic fee structure, typically settling between \$0.25 and \$0.50 per transaction.²⁰ To quantify the operational savings achieved by transitioning from commercial cards to instant payment rails, consider the following mathematical optimization:

$$Savings = \sum_{i=1}^n (V_i \times I_f) - (n \times C_f)$$

Where V_i represents the individual transaction volume, I_f is the percentage-based commercial card interchange rate, n is the total number of transactions processed, and C_f is the flat fee per transaction imposed by the real-time rail provider.

Applying this formula to a mid-market wholesale distributor processing \$500,000 in monthly receivables illustrates the scale of these savings. At a standard commercial card interchange fee (I_f) of 2.0%, the direct processing costs would equal \$10,000 per month.²⁰ If the distributor migrates those transaction flows to the RTP network or FedNow, utilizing a flat fee (C_f) of \$0.35 across approximately 4,285 transactions of varying sizes, the total processing cost falls to just \$1,500.²⁰ This results in a direct operating margin recovery of \$8,500 per month, or \$102,000 annually.²⁰

For high-ticket transactions, the economic advantages of flat-fee instant settlement become even more pronounced.²⁰ Under a standard percentage-based merchant card fee structure, a single transaction of \$2,000 yields \$45 to \$60 in interchange fees.²⁰ Moving that same transaction over a real-time rail incurs only the flat \$0.35 processing fee, allowing the merchant to retain nearly the entire value of the transaction.²⁰

Working Capital Optimization and Churn Mitigation

Beyond the direct reduction of transaction expenses, real-time rails eliminate the settlement delays that lock up corporate capital.⁶ Standard credit card and ACH transactions require one to three business days to clear, forcing treasury departments to rely on estimated cash positions and pre-funded operational accounts.⁶ Real-time payments settle immediately and irrevocably, providing treasurers with real-time visibility into cash balances and allowing cash-flow schedules to be synchronized with precision.⁶

For merchant acquirers and independent sales organizations (ISOs), integrating real-time settlement into merchant offerings acts as a powerful lever for customer retention.²⁰ Portfolio data from early-adopting ISOs shows a 25% to 30% reduction in merchant churn after introducing instant settlement features.²⁰ Slow funding and delayed settlement are leading drivers of merchant dissatisfaction.²⁰ By enabling immediate access to daily sales revenue, payment processors can differentiate their offerings in a commoditized market and establish predictable SaaS revenue streams by positioning instant settlement as a premium add-on.²⁰

The Consumer Paradigm in U.S. Instant Payments: A Balanced Assessment of Benefits, Costs, and Risks

While the economic advantages of instant payment rails for merchants and institutional treasuries are well-documented, the impact of these networks on retail consumers presents a more complex set of tradeoffs.²⁰ A balanced assessment of the U.S. consumer experience reveals that real-time payment rails deliver significant utility, but also introduce new costs and severe risk exposures that the existing regulatory framework is ill-equipped to address.¹⁸

The Consumer Utility Dimension: Liquidity and Financial Inclusion

For the retail consumer—particularly low-to-moderate-income (LMI) individuals and gig-economy workers—the speed and 24/7/365 availability of instant payment rails deliver immediate financial benefits.²¹ Traditional bank settlement structures, which rely on multi-day clearing cycles, impose a heavy cash-flow burden on individuals living paycheck-to-paycheck.⁶

- **Immediate Wage and Deposit Access:** Real-time payroll disbursements allow gig workers, contractors, and hourly employees to receive earned wages instantly at the end of a shift, bypassing check-cashing fees and payday lending networks.¹²
- **Avoidance of Late Fees and Penalties:** Consumers can make bill payments on due dates, during weekends, or on holidays, ensuring immediate posting.¹³ This capability eliminates late fees, utility disconnection penalties, and overdraft charges triggered by settlement delays.¹²
- **Instant Federal Emergency Relief:** As demonstrated by the Bureau of the Fiscal Service, integrating the FedNow Service into federal disbursements ensures that disaster relief, emergency funding, and critical state benefits reach vulnerable citizens' bank accounts within seconds.²⁵ This immediate liquidity is vital during natural disasters or acute financial emergencies.²⁵

Direct and Indirect Consumer Cost Structures

Although the underlying transaction fees on RTP and FedNow are flat and minimal for financial institutions, consumers face direct and indirect costs that can offset these advantages²⁰:

- **Platform Fee Pass-Throughs:** Payment processors, neobanks, and fintech applications frequently package real-time funding as a premium service, charging consumers flat convenience fees or percentage-based markups (often ranging from 1.0% to 1.5%) to access instant settlement.²⁰
- **Deprived Interest and Wallet Balances:** To facilitate instant P2P payments, consumers often maintain idle balances in non-custodial digital wallets and payment applications.³¹ These non-bank balances typically do not earn interest, depriving consumers of yield during elevated interest rate cycles.⁴
- **Premium Add-On Pricing:** Neobanks and digital wallet providers are increasingly introducing subscription-based tier models, restricting instant transfer capabilities to premium paid tiers and creating a bifurcated access model for essential financial services.²⁰

The Escalated Risk Profile: Irrevocability and Fraud Exposure

The most critical challenge for consumers participating in real-time payments is the systemic risk associated with transaction finality and the limits of legacy consumer protection laws.¹⁸

- **The Loss of Chargeback Recourse:** Traditional debit and credit cards operate on deferred settlement rails governed by the Fair Credit Billing Act and robust network operating rules.²⁸

These frameworks provide consumers with the right to dispute charges, initiate chargebacks, and reverse transactions in cases of merchant non-delivery, fraud, or billing errors.⁷ Real-time payments are irrevocable; once a payment is authorized, funds are moved and settled within seconds.⁶ Standard chargeback and reversal mechanisms do not exist on RTP or FedNow, leaving consumers with limited recourse when a transaction goes wrong.³⁵

- **Authorized Push Payment (APP) Scams:** Real-time rails have driven a sharp rise in APP scams, where bad actors utilize social engineering, marketplace deception, or impersonation techniques to trick consumers into authorizing real-time transfers.¹⁸ Because the consumer technically authorized the transaction, legacy fraud prevention rules and banking policies often categorize these events as "authorized," leaving the victim to bear the financial loss.¹⁸
- **Uninsured Non-Bank Ecosystems:** The growth of fintech payment platforms that utilize real-time rails but operate outside the traditional banking perimeter introduces severe structural risks.³¹ These non-bank applications often mimic traditional bank accounts but lack federal deposit insurance (FDIC) and robust consumer compliance programs.³¹ If a non-bank platform faces insolvency or a systemic cyber breach, consumer funds held in these accounts are highly vulnerable to loss.³¹

Consumer Dimension	Traditional Payment Rails (Cards / Standard ACH)	Real-Time Payment Rails (RTP / FedNow)	Consumer Impact & Strategic Implications
Clearing Velocity	Delayed (1-3 Business Days) ⁶	Sub-Second / Immediate ²⁰	Accelerates personal cash-flow, eliminating processing bottlenecks. ⁶
Transaction Reversibility	High (Reg E / Reg Z Card Chargeback Recourse) ¹⁹	None (Settlement is Final and Irrevocable) ⁶	Eliminates the safety net for consumer transaction disputes and merchant defaults. ³⁵
Fraud Vulnerability	Standard (Card Skimming, Unauthorized Use) ²¹	High (Social Engineering, APP Scams, Account Takeover) ¹⁸	Compresses the fraud detection window, leaving consumers highly

Consumer Dimension	Traditional Payment Rails (Cards / Standard ACH)	Real-Time Payment Rails (RTP / FedNow)	Consumer Impact & Strategic Implications
			vulnerable to scams. ¹⁸
Direct Consumer Cost	Indirect (Interchange fees built into merchant pricing) ¹³	Variable (Convenience fees, neobank subscription models) ²⁰	Introduces explicit fees for instant access, impacting lower-income segments. ²⁰
Emergency Fund Access	Restricted by banking hours and weekend closures	24/7/365 Continuous Availability ⁶	Critical for emergency liquidity, gig-wage payouts, and federal disaster relief. ²³

Stablecoins as Global Liquidity Infrastructure: B2B Cross-Border Monetization and the GENIUS Act

While domestic real-time networks like RTP and FedNow have optimized national payment flows, their operational reach is confined within domestic banking borders.⁵ For international commerce, corporate treasuries continue to face the friction, delays, and high costs of the legacy correspondent banking network.⁸ In response to this geographic limitation, stablecoins—digital assets pegged to fiat currencies and settled on decentralized ledgers—have emerged as a critical cross-border payment mechanism.⁴

The Scale and Dynamics of the On-Chain Dollar

The stablecoin market has grown significantly, reaching a total market capitalization of \$307 billion in early 2026.³ This growth is projected to accelerate, with analysts estimating a total stablecoin market cap of approximately \$2 trillion by 2028.³⁴ This trajectory is driven by global B2B transaction flows.¹⁴ Monthly B2B stablecoin payments surged 60-fold over a 30-month period, expanding from under \$100 million per month in early 2023 to more than \$6 billion per month by mid-2025.¹⁴ The geographic distribution of stablecoin adoption is highly concentrated in emerging markets and regions with fragmented correspondent banking access.¹⁴ The Asia-Pacific (APAC) region leads the market, processing \$245 billion in annual stablecoin payments (approximately 60% of global

transactional volume), driven by deep trade corridors in Singapore, Hong Kong, and Japan.¹⁴ In Latin America (LATAM), where local currency volatility and capital controls present persistent challenges, 71% of active enterprises report utilizing stablecoins for cross-border settlements.¹⁴ For example, Argentine businesses processed \$34 billion in stablecoin transactions during 2024, with 67% of those flows dedicated to cross-border supplier settlement designed to protect corporate reserves from local inflation and bypass restrictive currency controls.¹⁴ This global adoption is led by three primary stablecoins, each designed with distinct structural priorities⁴:

- **USDC (USD Coin):** Issued by Circle, USDC is the leading regulated stablecoin.⁴ Backed 1:1 by high-quality, liquid assets—specifically cash and short-term U.S. Treasury bills held in custodial accounts—USDC offers a high level of transparency and compliance alignment.⁴ This structure makes it the preferred digital dollar for North American and European enterprises requiring auditability and regulatory compliance.⁴
- **USDT (Tether):** Holding the largest share of global market liquidity, USDT is the dominant asset in peer-to-peer transfers and emerging market corridors.⁴ Despite historical scrutiny regarding reserve transparency, its deep liquidity pools across multiple blockchains make it a highly efficient vehicle for high-volume cross-border trade, particularly in regions with limited traditional banking access.⁴
- **PYUSD (PayPal USD):** Fully integrated into PayPal's extensive retail and merchant payment ecosystem, PYUSD represents a bridge between traditional commerce platforms and decentralized settlement rails.⁴ Backed by PayPal's trusted brand, PYUSD is designed to drive stablecoin adoption across mid-market businesses and consumer-facing applications.⁴

The Operational Playbook: The Stablecoin Sandwich

To settle transactions internationally without exposing their balance sheets to cryptocurrency volatility or custody complexity, enterprise finance teams utilize the "Stablecoin Sandwich" model.¹⁴ This automated payment workflow bridges the traditional banking system and on-chain rails through three integrated steps¹⁴:

1. **On-ramp:** The corporate sender initiates a local fiat transfer (such as a FedNow or ACH transaction) to a licensed payment provider.¹⁴ The provider automatically mints or purchases USD stablecoins (such as USDC) at a locked 1:1 exchange rate.⁷
2. **Transfer:** The stablecoin is transferred across public or permissioned blockchain networks (such as Solana, Polygon, or Ethereum) to the recipient's digital wallet.¹⁴ This step settles in minutes, operates 24/7/365, and incurs near-zero network fees.⁵
3. **Off-ramp:** Upon arrival, the payment provider automatically converts the stablecoin back into local fiat currency (such as the Indonesian Rupiah or Brazilian Real) and deposits the funds directly into the recipient's bank account via local instant settlement networks.¹⁴

By using this model, neither the sender nor the recipient is required to directly hold digital assets on their balance sheets, manage private keys, or navigate complex wallet interfaces.⁷ This approach abstracts away technical complexity while delivering the speed and cost efficiency of on-chain settlement.⁷

Quantitative Cost and Velocity Arbitrage

The efficiency gains of stablecoin rails over traditional correspondent banking are illustrated by comparing transaction costs, settlement speeds, and capital requirements ¹⁴:

Operational Metric	Correspondent Banking Network	Stablecoin Rails (The Stablecoin Sandwich)
All-in Transaction Cost	2.0% to 7.0% of total transfer volume ¹⁴	Under 1.0% total processing cost ¹⁴
Average Per-Transaction Fee	\$28 to \$52 in flat fees and intermediary deductions ¹⁴	Under \$1.00 flat network transaction fee ¹⁴
Settlement Speed	3 to 5 business days across jurisdictions ⁷	Under 3 minutes to finality 24/7/365 ⁷
Nostro Account Pre-funding	High; requires holding local currencies in foreign banks ¹⁴	Zero; settled on-demand without idle capital ¹⁴
FX Volatility Exposure	High; 3-5 day exposure to currency depreciation ¹⁴	Near-Zero; real-time execution removes pricing lag ¹⁴
Transaction Failure Rate	5.0% to 10.0% due to routing errors and manual compliance holds ¹⁴	Near-Zero; automated validation via smart contracts ¹⁴

Macroeconomic Implications: Bank Deposits and Treasury Dynamics

The scaling of the stablecoin market has significant macroeconomic implications for the broader financial system, influencing bank deposit structures and the U.S. sovereign debt market.³⁴

- Bank Deposit Disintermediation:** As corporate and retail depositors shift their transactional balances from traditional bank accounts to stablecoins, those deposits are effectively removed from the commercial banking system.⁴² The extent of this deposit disintermediation

depends on where stablecoin reserves are held.⁴² If reserves are kept in custodial accounts at commercial banks, the deposits are recycled, though they are converted from stable retail deposits into concentrated, uninsured wholesale balances, which increases bank funding costs and liquidity risk.⁴² If reserves are allocated directly to U.S. Treasury bills, capital flows out of the banking system entirely.⁴²

- **Systemic Treasury Demand:** Because stablecoin issuers back their tokens primarily with liquid, short-term assets, the growth of the stablecoin market has established these issuers as significant buyers of U.S. Treasury bills.⁴ Under the reserve requirements outlined in proposed and enacted legislation, the growth of stablecoins provides a consistent source of demand for front-end sovereign debt, shifting liquidity to the front end of the yield curve.³⁴
- **Accessing Central Bank master accounts:** The most significant reduction in bank deposits would occur if stablecoin issuers gain direct access to central bank master accounts that pay the Interest on Reserve Balances (IORB) rate.⁴² This access would allow issuers to bypass the commercial banking system entirely, holding reserves directly at the central bank and creating the highest degree of bank disintermediation.⁴²

Statutory Foundation: The GENIUS Act of 2025

The institutional adoption of stablecoins has been accelerated by the enactment of clear federal regulatory frameworks, notably the GENIUS Act signed into law on July 18, 2025.¹⁴ The Act removed the regulatory uncertainty that previously kept conservative treasury departments on the sidelines by establishing formal compliance guidelines for stablecoin issuers¹⁴:

- **Mandatory 1:1 Liquid Backing:** Stablecoin issuers must back all outstanding tokens 1:1 with high-quality liquid assets, specifically cash, short-term U.S. Treasury bills, or equivalent liquid reserves.¹⁴
- **Independent Monthly Attestations:** To prevent reserve commingling and verify token backing, issuers must undergo monthly reserve audits performed by registered, independent accounting firms.¹⁴
- **Dual Licensing Pathway:** The Act establishes a dual-licensing framework, allowing stablecoin issuers to operate under either a federal charter issued by the Office of the Comptroller of the Currency (OCC) or state-level trust regulators.¹⁴
- **Prohibition of Yield-Bearing Tokens:** Under the current provisions of the GENIUS Act, payment stablecoins are prohibited from directly paying yield or interest to token holders.³⁴ This restriction maintains a clear distinction between transactional stablecoins and tokenized money market funds (MMFs), which are classified as securities.³⁴

The Real-Time Risk Trilemma: Regulatory, Technical, and Operational Gaps in Continuous Clearing

The transition to real-time clearing and settlement eliminates the traditional "float" period that historically served as a buffer for operational error correction, fraud detection, and regulatory

compliance screening.¹⁸ Under legacy batch regimes, transaction anomalies could be flagged, investigated, and reversed before final settlement occurred.¹⁸ In a real-time environment, clearing and final settlement occur simultaneously in less than five seconds.¹⁸ This introduces a "Risk Trilemma" across regulatory, technical, and operational dimensions.¹⁸

1. Regulatory Gaps and Liability Allocation

The regulatory framework governing consumer protection in electronic transfers is anchored by Regulation E, which implements the Electronic Fund Transfer Act (EFTA).¹⁹ However, Regulation E was designed for a batch-processed financial system and remains ambiguous regarding Authorized Push Payment (APP) scams.¹⁸ APP fraud occurs when a consumer or business is socially engineered into authorizing a real-time payment to a fraudulent account.³⁵ Under current interpretations of Regulation E, unauthorized transfers (such as those initiated via account takeover) carry clear consumer liability protections.¹⁹ However, because the user technically authorized the transfer in an APP scam, liability rules remain contested, leaving sending institutions, receiving institutions, and consumers in a legal gray area.¹⁸ In May 2026, the U.S. Faster Payments Council (FPC) released its report, "Instant Payments Fraud Dispute Resolution: Guidance Principles for the U.S."³⁵ Rather than prescribing rigid regulatory mandates, the FPC outlined 11 flexible guiding principles aimed at establishing structured dispute workflows and promoting a "shared responsibility" model among sending and receiving financial institutions.³⁵ Additionally, traditional anti-money laundering (AML) and Office of Foreign Assets Control (OFAC) sanction screening processes were designed as overnight batch operations.¹⁸ Reconciling these batch-based screening models with sub-second clearing times presents a significant compliance challenge.¹⁸ Running comprehensive sanctions checks during the payment flow without causing high false-positive rates can disrupt the real-time user experience and increase operational risk.¹⁸

2. Technical Gaps and System Performance

The technical architecture of many legacy banks is built around core systems that rely on overnight processing windows and scheduled downtime.¹⁸ These core systems are not designed for the continuous, 24/7/365 operational demands of real-time networks like FedNow and RTP.¹² Furthermore, legacy, rule-based fraud detection systems are unable to analyze transaction patterns, run risk assessments, and deliver a decision in under a second.¹⁸ This technical latency can cause institutions to rely on static transaction limits or face elevated fraud rates.¹⁸ To address these challenges, modern real-time architecture requires a shift toward streaming sanctions screening, real-time behavioral analytics, and explainable artificial intelligence (XAI) models capable of delivering automated compliance and fraud-prevention decisions in milliseconds.¹⁸

3. Operational Gaps and Continuity Demands

Operating a payment network around the clock requires a significant overhaul of bank and corporate operational structures.¹⁸ Traditional treasury functions are structured around business hours, with manual verification of exceptions, liquidity adjustments, and error resolution occurring during standard banking windows.¹⁸

In a real-time environment, operational disruptions can occur at any time, requiring 24/7 staffing models, automated escalation paths, and real-time reconciliation workflows.¹⁸ Service Level Agreements (SLAs) with technology vendors must also be realigned to support continuous availability, as any downtime can lead to immediate transactional backlogs and reputational damage.¹⁸

Cyber-Physical Threats and Intraday Liquidity Ordeals: Pix Case Studies and Millisecond AI Defenses

In a real-time gross settlement (RTGS) environment, a financial institution's capacity to process outbound transactions is constrained by the immediate availability of cleared reserves held at the central bank.¹² Under legacy systems, intraday liquidity could be managed through periodic batch settlements and daylight overdraft privileges.²⁸ Real-time rails, however, settle continuously, meaning that sudden imbalances between inbound and outbound flows can rapidly exhaust an institution's settlement reserves.²⁸ This operational vulnerability has created a new class of systemic risk: the intraday liquidity ordeal.²⁸

Systemic Vulnerabilities: Targeting the Plumbing

Rather than targeting individual customer accounts through distributed phishing campaigns, cybercriminals are increasingly launching sophisticated supply-chain attacks aimed directly at the settlement infrastructure of financial institutions and payment service providers.²⁸ By compromising internal payment routing engines, attackers can inject fraudulent transaction instructions or divert reserve balances, triggering rapid capital flight before traditional risk controls can intervene.²⁸

To manage this risk, treasury departments and risk officers must monitor intraday liquidity requirements in real time. The minimum intraday liquidity buffer can be modeled as follows:

$$L_t = \max \left(0, \sum_{k=1}^t (O_k - I_k) \right) + R_s$$

Where L_t is the target intraday liquidity requirement at time t , O_k represents the cumulative outbound transaction flows, I_k represents the cumulative inbound transaction flows, and R_s is the settlement reserve buffer required to protect against cyber-physical disruptions, network failures, or clearing delays.

If a cyberattack disrupts the settlement balance ($I_k \rightarrow 0$) or triggers an unauthorized spike in outbound flows ($O_k \gg I_k$), the liquidity buffer can be depleted in minutes, forcing the institution to suspend its payment services and face regulatory penalties.²⁸

Pix Ecosystem Case Studies: Lessons from Infrastructure Compromises

The practical reality of these threats is illustrated by three high-profile cyberattacks targeting Brazil's Pix instant payment ecosystem between mid-2025 and early 2026²⁸:

- The C&M Software Supply-Chain Exploit (July 2025):** Attackers exploited security vulnerabilities in third-party provider C&M Software to gain unauthorized access to internal payment processing systems.²⁸ Over \$152 million (BRL 800 million) was diverted across eight participating financial institutions before the breach was contained.²⁸ In response, the Central Bank of Brazil suspended three participants and mandated the integration of DetectaFlow, a centralized anomaly detection platform, across all Pix ecosystem participants.²⁸
- The Banco do Nordeste Disruption (January 2026):** Attackers compromised a critical third-party provider, forcing Banco do Nordeste to preventatively suspend its entire Pix payment gateway to contain the breach.²⁸
- The BTG Pactual Settlement Hack (March 2026):** On Sunday, March 22, 2026, hackers bypassed internal security controls to access BTG Pactual's core settlement engine.²⁸ Instead of targeting customer deposit accounts, the attackers targeted the bank's central bank reserve account used to settle Pix transactions.²⁸ The hackers successfully diverted approximately \$18 million (BRL 100 million) from the settlement reserve, dispersing the funds across seven receiving banks and partially converting the proceeds into cryptocurrencies to prevent recovery.²⁸ BTG Pactual suspended Pix services within minutes to isolate the breach, protecting customer data and eventually recovering approximately \$14 million (BRL 73 million) within 24 hours.²⁸ However, the temporary suspension of a major payment gateway highlighted how quickly a cyber incident can escalate into an operational liquidity crisis.²⁸

These incidents demonstrate that the speed, ubiquity, and finality of instant payment systems can also act as systemic transmission channels for fraud and operational shocks.²⁸ This risk profile requires a shift from passive, batch-based security auditing to real-time, in-flight transaction screening.¹⁸

Cyberattack Incident	Target & Vulnerability	Financial Impact	Operational Recovery & Mitigations
C&M Software	Compromise of	\$152 Million (BRL	Central Bank of

Cyberattack Incident	Target & Vulnerability	Financial Impact	Operational Recovery & Mitigations
Exploit (July 2025) ²⁸	third-party processing provider software ²⁸	800M) embezzled across 8 FIs ²⁸	Brazil suspended 3 participants; mandated DetectaFlow anomaly detection. ²⁸
Banco do Nordeste Incident (January 2026) ²⁸	Third-party payment gateway provider compromise ²⁸	Under investigation; systemic operational suspension ²⁸	Preventive suspension of all Pix transaction flows to contain the breach. ²⁸
BTG Pactual Reserve Hack (March 2026) ²⁸	Hackers penetrated internal systems to access central bank reserves ²⁸	\$18 Million (BRL 100M) diverted from settlement reserve account ²⁸	Pix gateway suspended; BRL 73M recovered in 24 hours; remaining amount under investigation. ²⁸

Millisecond Fraud Detection and Adaptive AI Defenses

To defend against real-time fraud and supply-chain compromises, financial institutions are deploying advanced transaction firewalls, such as INETCO BullzAI.²⁸ These systems combine network-level packet capture with machine learning to inspect and authorize payments in flight.²⁸ Using network TAP or SPAN ports, these platforms capture raw network packets of in-flight transaction data directly off the wire, reassembling and decoding them in real time without adding latency to the payment authorization flow.²⁸ Supported messaging standards include ISO 20022, ISO 8583, and standard JSON APIs.²⁸

This architecture enables a multi-layered defense ²⁸:

- Adaptive Behavioral Analytics:** Instead of relying on static rules that can miss emerging fraud patterns, the system uses adaptive machine learning models.²⁸ These models continuously self-train after every transaction, establishing event-driven behavioral baselines for every account, device, and terminal.²⁸
- Patented Transaction Firewall:** Operating in under 20 milliseconds (<20ms), the firewall inspects transaction payloads at the data-field level, retaining the capability to analyze TLS-

encrypted messages.²⁸ If a transaction deviates from established behavioral patterns, the firewall can block or rate-limit the specific data field in flight, stopping zero-day fraud and supply-chain attacks before settlement occurs.²⁸

- **Know Your Transaction (KYT) Analysis:** By correlating network-level protocol intelligence, request-response timings, application metadata, and device biometrics, the platform provides a unified view of the transaction journey.²⁸ This analysis helps eliminate blind spots and reduce false-positive rates that can disrupt the user experience.¹⁸

The Regulatory Watershed: Analyzing the May 19, 2026 Executive Order and Non-Bank Access

On May 19, 2026, the regulatory and political landscape governing central bank access shifted with the signing of the executive order titled "Integrating Financial Technology Innovation into Regulatory Frameworks".² This directive aims to dismantle the historical barriers that have kept non-bank financial companies, fintech platforms, and uninsured depository institutions on the outside of the core U.S. payment system.²

Directing the Fed: Master Accounts and Payment Services

The executive order directs the Federal Reserve Board of Governors to evaluate options for broadening direct access to Reserve Bank payment accounts (Master Accounts) and core payment services (such as Fedwire and the FedNow Service) to non-bank financial entities and uninsured depository institutions, including digital asset firms.²

Historically, direct access to these accounts has been restricted to insured depository institutions, forcing fintech platforms and crypto-native firms to rely on intermediary banks to clear transactions.¹¹ This intermediated model added processing costs, introduced counterparty risk, and allowed traditional banks to act as gatekeepers to the payment system.¹⁷

The executive order targets this structure by requiring the Federal Reserve to:

- Evaluate whether its framework can be legally extended to non-bank fintech and digital asset firms.¹⁷
- Assess the legal authority of individual regional Reserve Banks to independently gatekeep master account access.¹⁷
- Establish "transparent application procedures" and deliver formal decisions on completed applications within 90 days.²
- Submit a comprehensive report outlining findings, options, and legal impediments to the President within 120 days.²

This executive pressure is designed to accelerate the Federal Reserve's "skinny account" initiative, first proposed by Governor Christopher Waller.³² As designed, a skinny account provides limited access to Fed payment rails without offering interest on overnight balances, daylight overdraft privileges, or access to the discount window.¹¹ The executive order seeks to broaden this initiative, potentially allowing non-bank firms to access core payment rails while keeping their operational

models outside the full scope of traditional bank regulations.¹¹

The Regional Fed Bank Controversy and the Kraken Precedent

A key driver of the executive order was the ongoing conflict over the independent authority of the 12 regional Federal Reserve banks.¹⁷ This issue was highlighted by the prolonged litigation involving Custodia Bank and the sudden approval of a limited master account for Payward, the parent company of Kraken Financial, by the Kansas City Fed in March 2026.¹⁷

Operating as a state-chartered Wyoming Special Purpose Depository Institution (SPDI), Kraken became the first digital asset firm to secure direct access to the Federal Reserve's payment infrastructure.² Kraken's Co-CEO, Arjun Sethi, called the milestone the "convergence of crypto infrastructure and sovereign financial rails".¹⁷

However, because the Kansas City Fed approved Kraken's account before the Board of Governors had finalized a uniform policy framework, the decision drew sharp criticism from traditional banking associations.¹⁷ The Bank Policy Institute, which represents large U.S. commercial banks, expressed deep concern over the timing and consistency of the regional Fed's actions.¹⁷

The executive order aims to resolve this issue by directing Federal Reserve Governor Christopher Waller to lead a comprehensive review.³² This review is focused on establishing a standardized policy framework to prevent regional Fed branches from adopting disparate approaches to non-bank access.³²

Interagency Audits and Strict Implementation Timelines

The directives of the executive order extend beyond the Federal Reserve, instructing other federal regulators to align their policies to support financial innovation²:

- **Three-Month Interagency Audits:** The OCC, SEC, CFTC, and other financial regulators have three months to audit existing rules, guidance, and supervisory practices.² The goal is to identify and eliminate regulations that "unduly impede" partnerships between fintech firms and federally regulated financial institutions.²
- **Six-Month Rule Reform Action:** These same agencies must take active steps within six months to modify or withdraw restrictive rules, simplify compliance requirements, and encourage competition across the financial sector.²
- **90-Day Application Decisions:** The Federal Reserve is urged to establish transparent application procedures and must deliver formal decisions on completed master account applications within 90 days.²
- **120-Day Presidential Report:** The Federal Reserve must deliver its formal report assessing legal authority, structural options, and legal impediments for non-bank access to the White House within 120 days.²

This aggressive regulatory timeline transforms a historically slow-moving process into an administrative priority, forcing regulators to engage with financial technology innovation.¹⁷

Regulatory Event	Responsible Agency	Timeline / Deadline	Strategic Objective & Operational Mandate
Audit of Regulatory Impediments ²	OCC, SEC, CFTC, Treasury	3 Months from Signing (<i>August 19, 2026</i>)	Identify rules and guidelines that unduly impede fintech partnerships and non-bank integration. ²
Active Policy Implementation ²	OCC, SEC, CFTC, Treasury	6 Months from Signing (<i>November 19, 2026</i>)	Take active regulatory steps to dismantle barriers, streamline partnerships, and support innovation. ²
Fed Account Feasibility Report ²	Federal Reserve Board	120 Days from Signing (<i>September 16, 2026</i>)	Deliver report evaluating legal authority, options, and impediments for non-bank master accounts. ²
Master Account Application Decisions ²	Federal Reserve Banks	90 Days from Complete Filing	Establish transparent application procedures and render formal decisions within a strict 90-day window. ²

Financial Infrastructure Investment Framework: Corporate and Institutional Strategic Roadmap

The convergence of domestic real-time payments, global stablecoin rails, and evolving regulatory policies requires a structured framework to guide institutional technology investments and corporate treasury strategies.⁹ To maximize efficiency, reduce transaction costs, and mitigate risk,

organizations should align their capital allocation decisions across several key areas.¹²

Sovereign Rail Orchestration: Implementing Multi-Rail Architectures

Corporate treasuries and financial institutions should move away from single-rail dependencies and deploy payment routing architectures that integrate both RTP and FedNow.¹²

- **Deploy Smart Payment Routing APIs:** Organizations should implement payment orchestration platforms that dynamically evaluate destination reach, transaction value limits, fee structures, and network availability to route payments via the most efficient rail.¹³
- **Incorporate ISO 20022 Data Standards:** Systems must be designed to parse and utilize the rich XML-based data payloads of ISO 20022 messaging.²⁰ Integrating this structured remittance data directly into ERP and accounting platforms allows organizations to automate invoice matching, billing reconciliation, and accounts payable workflows, reducing manual processing costs and reconciliation delays.¹⁵
- **Optimize High-Value Flows:** Treasuries should leverage the expanded \$10 million limits on both RTP and FedNow to shift high-value B2B transactions, payroll funding, and liquidity reallocations from legacy wire transfers and card networks to instant rails, maximizing capital efficiency.¹

Modular Stablecoin Integration: Establishing "Stablecoin Sandwich" Workflows

To optimize international payments and manage emerging market trade, global enterprises should integrate stablecoins as a core treasury settlement rail.¹⁰

- **Implement Programmatic Fiat-to-Stablecoin Bridging:** Global finance teams should deploy programmatic workflows that utilize the "Stablecoin Sandwich" model for cross-border supplier payments and international payouts.¹⁴ This model delivers the speed and cost efficiency of on-chain settlement while abstracting away the operational complexity and balance-sheet risk of directly holding digital assets.⁷
- **Align with Regulated Stablecoin Issuers:** Organizations should restrict their stablecoin operations to highly regulated, transparent USD stablecoins (such as USDC) that comply with the 1:1 liquid reserve backing and independent monthly attestation standards mandated by the federal GENIUS Act.⁴ This alignment minimizes compliance risk and ensures reserve stability.¹⁴
- **Build Modular Wallet Architectures:** Financial institutions and fintech platforms should design modular wallet infrastructures that can interface with multiple public and permissioned blockchains, allowing the payment stack to adapt as technology standards and liquidity pools evolve.⁹

Active Risk Mitigation: Deploying Real-Time Fraud and Liquidity Protections

To address the risks of real-time payments, financial institutions and payment operators must shift from passive, batch-based security controls to active, real-time risk management.¹⁸

- **Implement Millisecond In-Flight Screening:** Organizations should deploy advanced transaction firewalls (such as INETCO BullzAI) capable of capturing, decoding, and analyzing payment messages in under 20 milliseconds.²⁸ These systems use adaptive machine learning to establish behavioral baselines and block suspicious transactions before settlement occurs.²⁸
- **Establish Intraday Liquidity Monitoring:** Treasury platforms must continuously monitor incoming and outgoing cash flows, central bank reserve balances, and settlement limits in real time.²⁸ Automated alerts should be configured to instantly flag abnormal transaction velocity or volume spikes that could indicate a security compromise.²⁸
- **Update Operational and Escalation Models:** Institutions must restructure their operational models to support continuous, 24/7/365 operations, establishing automated escalation paths, real-time error resolution workflows, and vendor SLAs aligned to continuous availability.¹⁸

Understanding the Total Cost of Ownership: Cloud Infrastructure and FinOps

When budgeting for real-time payments and fintech infrastructure, organizations must evaluate the total cost of ownership (TCO) beyond initial development and deployment expenses.⁴⁴

- **Manage Cloud Scaling Costs:** Real-time, continuous transaction processing significantly increases database and compute requirements.⁴⁴ Organizations must plan for substantial cloud egress and data transfer fees, multi-region database deployments for continuous availability, and enhanced backup and disaster recovery capabilities for financial data.⁴⁴ Implementing active FinOps practices can help analyze usage patterns and optimize cloud resource allocation, potentially reducing infrastructure costs by up to 40%.⁴⁴
- **Budget for Compliance Multipliers:** Meeting regulatory standards adds a significant, ongoing compliance multiplier to technology budgets.⁴⁴ Organizations must account for the continuous costs of identity verification systems (KYC/AML), mandatory security certifications (such as PCI DSS for payment card data), regional regulatory assessments, and recurring SOC 2 security audits.⁴⁴
- **Assess Build-vs-Buy Decisions:** Developing proprietary payment infrastructure can introduce significant execution risk, compliance delays, and maintenance overhead.⁴⁴ For many organizations, partnering with specialized, enterprise-grade technology providers offers a faster, more cost-effective path to market, abstracting away technical complexity and compliance obligations while ensuring continuous system updates.⁷

By aligning capital allocation with these strategic recommendations, corporate and institutional decision-makers can construct a resilient financial infrastructure capable of navigating the realities of a real-time, digital economy.⁹

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