

Symmetrics Encryption for Leading Financial Institutions

**INDUSTRY CHALLENGES:**

Most financial institutions rely on public key infrastructure (PKI) and TLS to secure real-time transactions, credentials, and system access, despite known vulnerabilities brought on by evolving technology.

Emerging Quantum Threats

Post-quantum computing will break today's PKI and RSA-based infrastructures, exposing encrypted transactions and archived data.

Fragmented Infrastructure

Legacy VPNs, certificate chains, and disparate systems create weak points across hybrid tech-stack architectures.

Compliance Rigor & Escalations

Maintaining flexible yet secure key management & audit hygiene across complex regulatory environments has never been more involved or costly.

KEY PERSONAS:

Financial institutions can rely on Symmetrics across their org chart. **Security leaders** use our **SDK** to protect high-value transactions & interbank traffic at the protocol layer, while **infrastructure and network teams** deploy our **VPN** for end-to-end protection across legacy tech stacks & cloud connections. **Identity & Team Managers** leverage **AuthAM** to monitor credential-based risk with complete user & device controls. Together, these products help banks & financial orgs strengthen compliance, reduce operational risk, and stay ahead of evolving cyber and quantum threats.

RELEVANT METRICS:

CBDC Transaction Volume to Reach \$7.8 Billion by 2031

Projected Cost of Cybercrime is \$23 Trillion by 2027

\$2.2 Billion in losses per Leading Financial Firm

\$28.8M Forecasted Annual Average Loss

Protect every transaction, message, & connection with symmetric, quantum-secure™ encryption. Built for the speed & compliance demands of today's businesses & their future

APPROACH VECTORS:

Symmetrics replaces traditional asymmetric cryptography with symmetric one-time keys, ensuring that transaction data remains secure even in a post-quantum world. business applications, without changing how your systems work today.

Data In Motion™ – Quantum Secure™ Encryption**Real-Time Transaction Processing & Payment Clearing**

As funds and settlement instructions move between internal systems, remote branches, and external networks globally, encryption in motion is critical to maintain confidentiality and integrity.

Inter-Bank Comms & Trade Messaging

Banks exchange large volumes of sensitive data (SWIFT messages, FX instructions, treasury operations, etc.) that traverse WAN, cloud and partner links, requiring the highest standards of encryption.



APPROACH VECTORS: Continued

Remote Branch, Partner, & Vendor Connectivity

When remote offices, third-party insurers, fintech partners or external vendors access systems, data flows must be encrypted end-to-end to reduce interception risk.

Cloud Migrations, API Traffic, & Region Localization

As banks move workloads across hybrid cloud, multi-region data centers & edge locations, data in motion between services, APIs, and micro-services must stay encrypted to preserve confidentiality.

Regulatory Compliance & Audit Logging

Many regulations demand encryption of data across networks and partner links, especially for regulated entities handling PII and financial data, a major driver for encrypting everything in motion

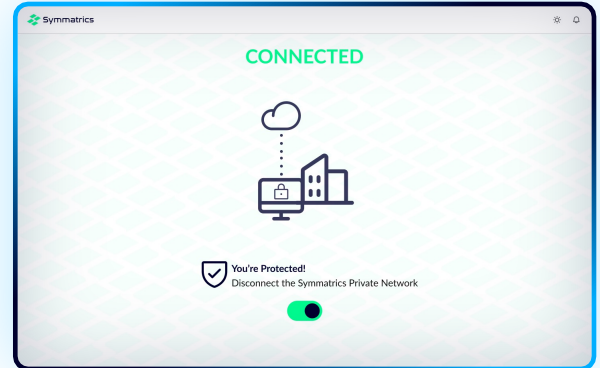
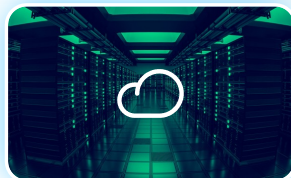


Fig 1.1 – Connection Success to the Symmetrics VPN

FURTHER READING:

Discover the simplest path to post-quantum security.

Explore our Full Product Suite & Review More Technical Documentation



QUICK LINKS

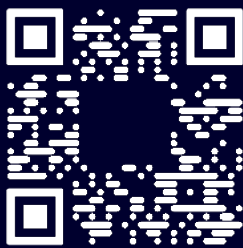
[SDK Technical Documentation](#)

[Product Solution Briefs](#)

[Banking & Finance Website Page](#)

[Industry Data Sheets](#)

[Symmetrics FAQ & Glossary](#)



Symmetrics delivers mathematically unbreakable, quantum-secure encryption to security-conscious enterprises across high-stakes, data-driven industries. Founded by tenured intelligence scientists with deep roots in government security, we empower bold decision-makers in forward-thinking technologies by making perfect secrecy practical and accessible to organizations worldwide.



Symmetrics™

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