SyberKey CPE: Human-Verified Cryptographic Execution Control

Architecting the foundational execution layer for the AI and post-quantum enterprise.

CPE

CONTINUOUS PATHWAY ENFORCEMENT

POLICY ENDPOINT VERIFY

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We secured the perimeter, the identity, and the endpoint

Despite massive investments across these layers, a critical, systemic vulnerability remains unaddressed.

Pillar 1:
Perimeter Security

Firewalls and network controls.

Pillar 2:
Identity Security

IAM, MFA, PAM, Zero Trust.

Pillar 3:
Data Governance

DLP, classification, compliance.

Pillar 4:
Endpoint Security

EDR/XDR and behavioral analytics.

The Void:
The Execution Gap

(Unresolved)

ACCESS IS NOT EXECUTION

THE ASSUMPTION: SECURITY SYSTEMS DETERMINE WHETHER A USER SHOULD HAVE ACCESS.

THE REALITY: ONCE ACCESS IS GRANTED VIA SESSION TRUST, BEARER TOKENS, OR CACHED IDENTITY, EXECUTION HAPPENS FREELY.

THE FATAL FLAW: SENSITIVE ACTIONS EXECUTE WITHOUT FRESH PROOF OF INTENT, CONTEXT, OR VERIFIED HUMAN PRESENCE.

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Traditional access control structurally fails the AI era

Enterprise systems—driven by AI copilots, autonomous agents, and automated workflows—now act exponentially faster than humans can supervise.

Legacy Model

- Linear security reviews
- Manual approval gates
- Time-intensive supervision

Modern Reality

- AI copilot delegation
- API-driven execution chains
- Automated machine-to-machine workflows

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Converging threat vectors exploit static session trust

Without execution-time verification, the enterprise is vulnerable to high-velocity threat vectors.

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Existing platforms answer crucial questions, but leave one unanswered

Microsoft Entra ID:
Who is the user?

Microsoft Purview:
What is the data?

The Central Void:
Policy, monitoring, and entitlement managers are powerful, but who controls the execution?

CyberArk:
Is the user privileged?

Defender for Endpoint:
Is the device risky?

The cryptographic keystone completing the enterprise stack

CPE is the missing enforcement layer that unifies identity, data, endpoints, and privilege.

SyberKey answers the final question: Can this exact action execute right now with fresh human **cryptographic verification?**

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Verification strictly at execution time

Live Biometric Verification: Passwordless, QR-anchored cryptographic identity.

Payload Binding: Tied exclusively to the exact action requested.

Replay Protection: Cryptographically prevents duplicated or hijacked execution attempts.

Execution Examples: High-risk actions like file exports, privileged PowerShell execution, cloud infrastructure modification, and database extractions.

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Architected for the post-quantum and AI-driven enterprise

Hybrid Cryptographic Signing: Designed for the post-quantum transition.

Cryptographic Agility: Resilient execution control independent of legacy algorithms.

Threat Resilience: Neutralizes long-term cryptographic exposure and AI-assisted credential attacks.

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Defeating session hijacking and machine-speed fraud

Use Case: Financial Approvals

When a payment approval is requested, CPE validates endpoint risk, requires a live biometric, and issues a 10-second single-use token to cryptographically enforce the transaction.

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Live biometric privileged execution bound to the exact payload

Use Case: Privileged Admin Execution

Even if an admin holds a privileged role, elevated endpoint risk triggers a biometric requirement, generating an action-bound token that allows only the exact PowerShell execution requested.

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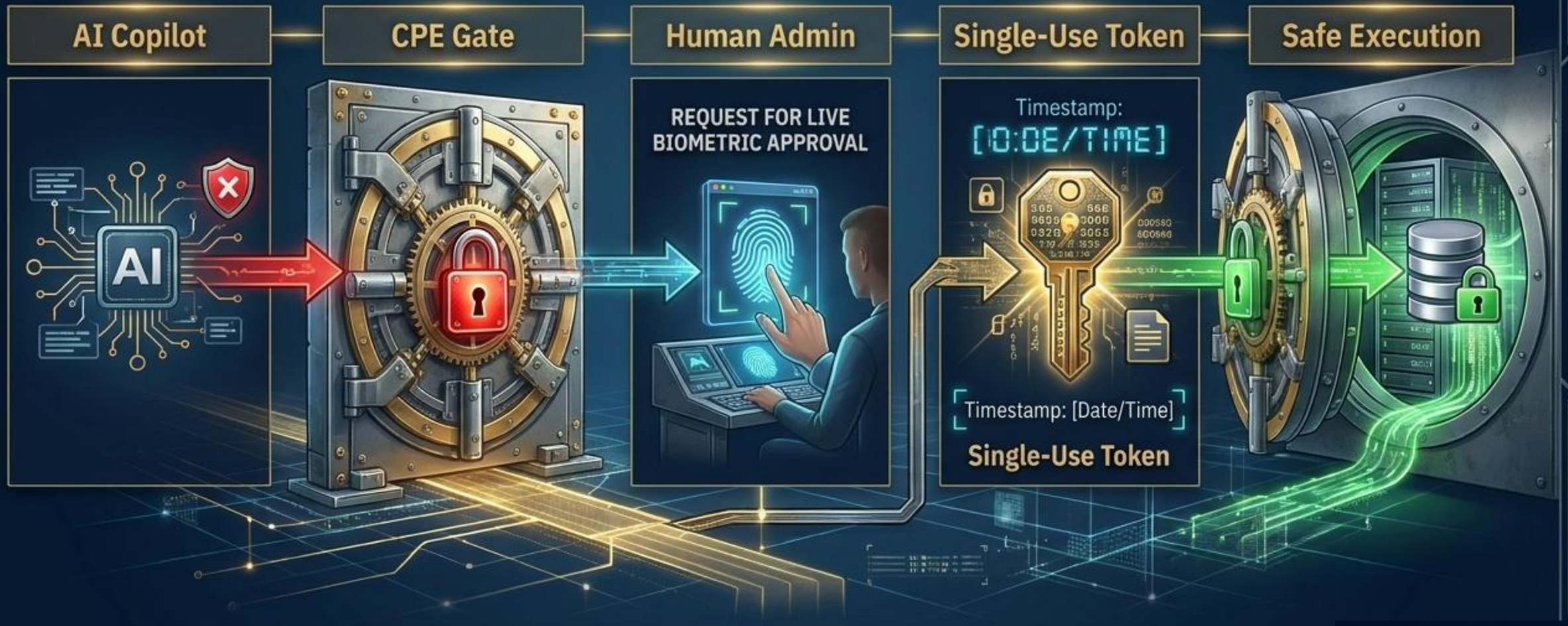
Cryptographically gating autonomous AI execution chains

Enforcing human-in-the-loop cryptographic approval for AI-generated actions, preventing automated catastrophe.



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Enforcing human verification for highly sensitive data extraction

Use Case: Human-Verified File Download

Governance Signal:
Microsoft Purview

Risk Signal:
Microsoft Defender

Execution Enforcement:
SyberKey CPE Engine

Clamp it Gimmput:

CPE intercepts the download request, demands a live biometric scan, and issues a 10-second replay-protected token bound explicitly to that exact file export.

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A complementary enforcement layer for existing investments

Identity Platforms
(Entra ID, Okta, Ping Identity)

- Current Function: Identity & Conditional Access

→ **SyberKey Adds:** Execution-time enforcement and action-bound JIT tokens

PAM Platforms
(CyberArk, BeyondTrust, Delinea)

- Current Function: Privileged Sessions & Credentials

→ **SyberKey Adds:** Payload-bound privileged actions and live biometric execution

Data Governance
(Purview, Netskope, Zscaler)

- Current Function: Classification & DLP

→ **SyberKey Adds:** Biometric-verified download approval and cryptographic export control.

Endpoint Security
(Defender, CrowdStrike, SentinelOne)

- Current Function: EDR/XDR & AI Security

→ **SyberKey Adds:** Endpoint execution gating and device-risk-aware action enforcement.

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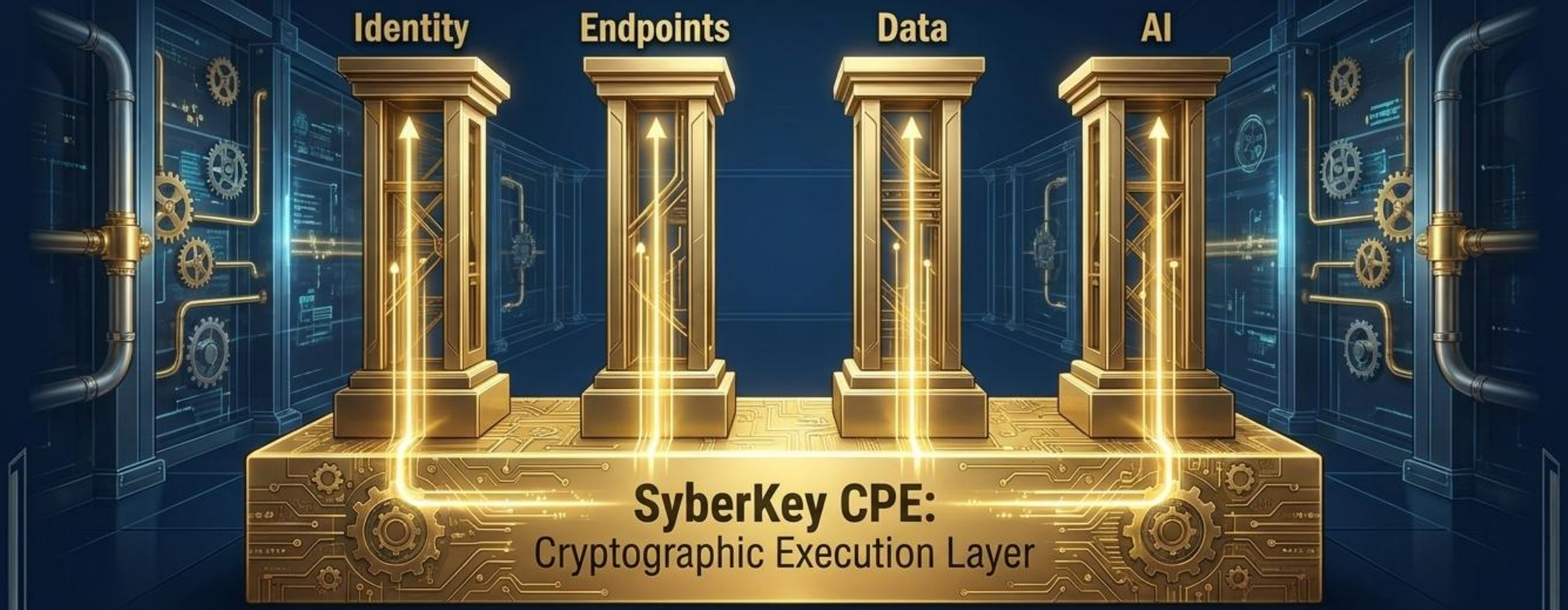
The foundational security control layer for the next-generation enterprise



Transitioning enterprise cybersecurity from static perimeter defense and session trust to continuous, human-centric cryptographic enforcement. The human-verified cryptographic execution-control layer designed for the AI-driven, post-quantum enterprise.

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