

Syberkey

OneBiold



Welcome to Post-Credential Security

Human Authenticity Infrastructure

From Credential Security → To Human Authenticity

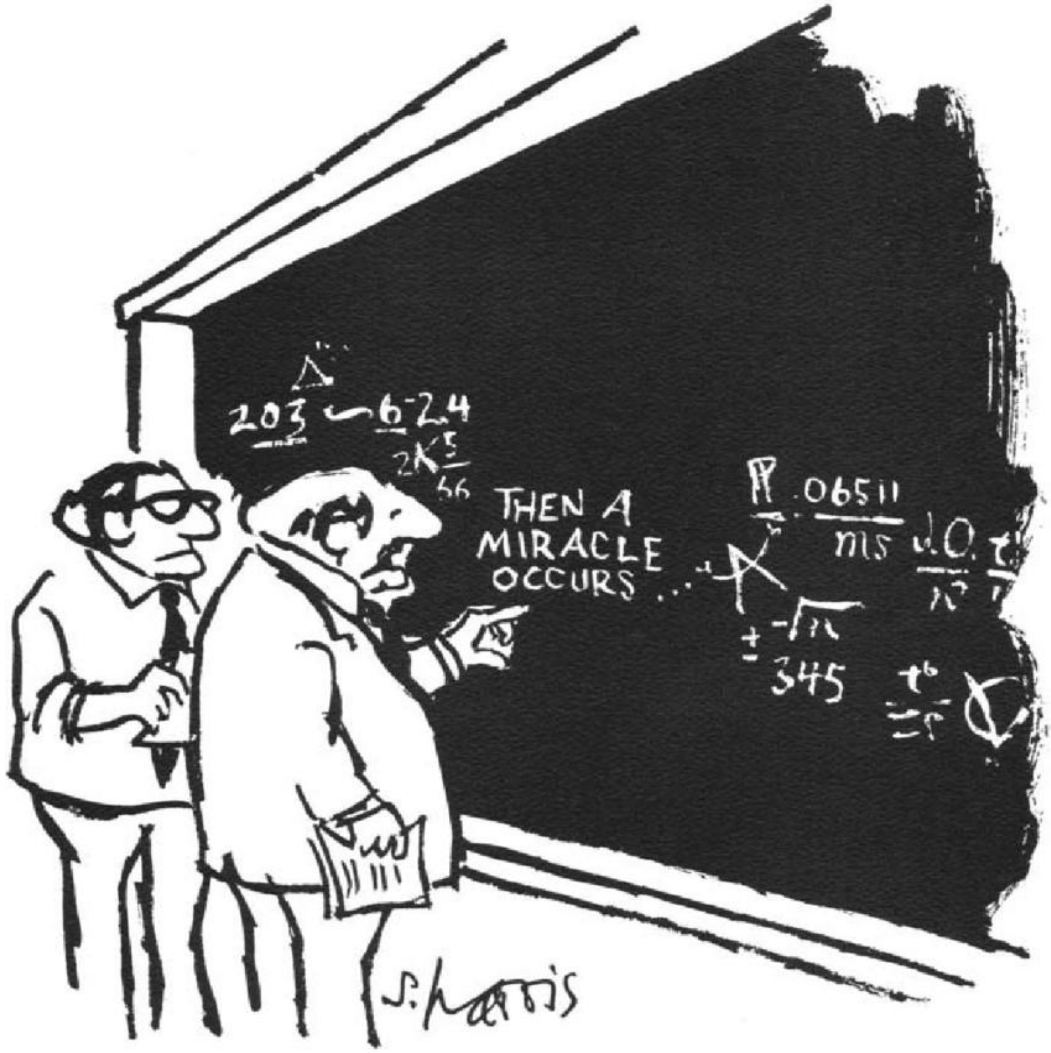
Syberkey

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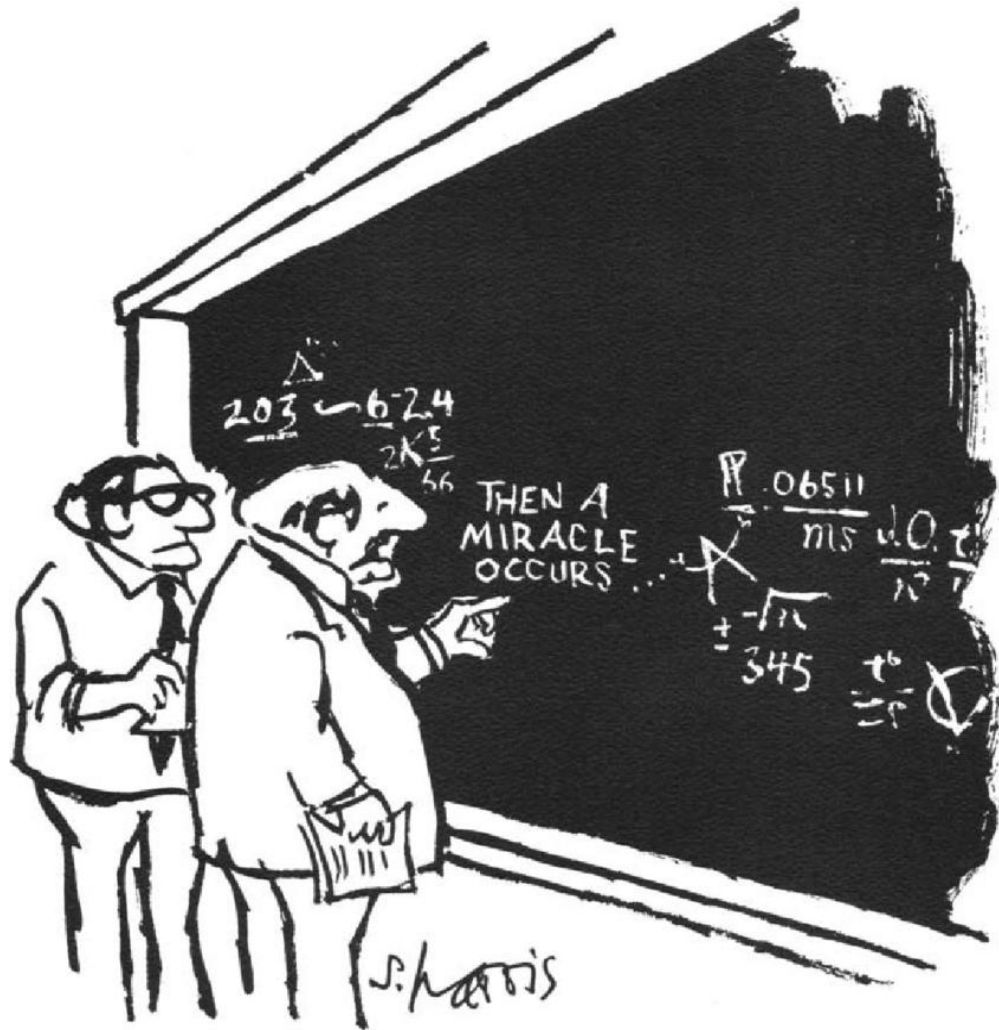
Welcome to Post-Credential Security
No OTP No Passwords
Live Biometrics Option from any Device
Patented Technologies

Current Situation



"I THINK YOU SHOULD BE MORE EXPLICIT HERE IN STEP TWO."

Current Situation



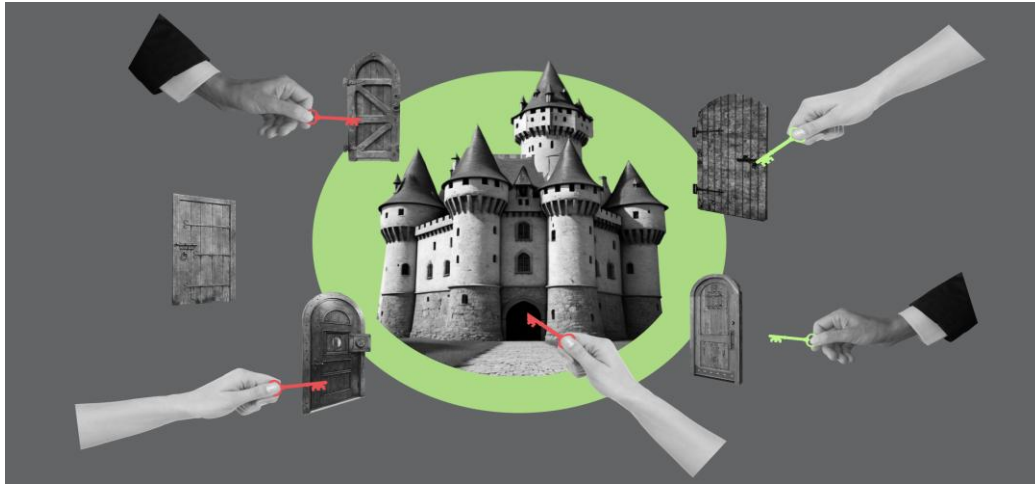
"I THINK YOU SHOULD BE MORE EXPLICIT HERE IN STEP TWO."



Our Mission: To Address These Market Realities

- **The Trend:** Stolen credentials have surpassed software exploits to become a leading initial access vector
- **The Scale:** * **Verizon (2025 DBIR):** Found that **68% of breaches** involved a human element, including stolen credentials, phishing, or social engineering.
- **IBM (2025):** Reports that the global average cost of a data breach has reached **\$4.44 million**, with phishing as the most common entry point
- **Microsoft:** Detected **147,000 token replay attacks** in a single year, a **111% increase** year-over-year
- **The Trend:** "Identity Farming" and deepfake-as-a-service are being used to bypass biometric systems that lack advanced liveness detection
- **The Scale:** * **Projected Losses:** AI-driven fraud is projected to reach **\$40 billion by 2027**, impacting sectors like banking and healthcare
- **Expert Quote:** > "Millions on firewalls and encryption mean nothing if humans are the weakest link." — **Kevin Mitnick**, late cybersecurity expert and author.

The Problem



Identity is the new perimeter

- 80%+ of breaches originate from credential misuse
- MFA fatigue attacks are increasing
- Session hijacking bypasses traditional IAM
- Vendor backend flaws create systemic exposure
- Quantum computing will break current crypto assumptions

The market still protects credentials.
No one has removed them.



Legacy Model	SyberKey Model
Identity = Credentials	Identity = Human
Secure login	Secure every action
Session trust	Continuous enforcement
Vault secrets	No secrets exist
Backend trust	Independent assurance layer

AI-generated identities and deepfake impersonations are increasing the risk of credential-based security models

These threats expose a fundamental limitation: digital systems verify credentials, but not human presence

Human Authenticity Infrastructure solves this gap

Rewriting the Architecture of Trust



Multi-factor authentication (MFA) challenges include user resistance due to increased friction, high implementation costs, and technical complexities with legacy systems. Vulnerabilities like MFA fatigue (prompt bombing), phishing attacks, and SIM swapping can bypass security, while lost devices cause account lockouts

- **User Friction and Adoption:** Users may resist MFA due to the inconvenience of extra steps, leading to low adoption rates or complaints about increased workload.
- **MFA Fatigue and Prompt Bombing:** Attackers spam users with authentication requests, hoping they will approve one out of frustration or confusion.
- **Security Vulnerabilities:** Attackers can bypass MFA through sophisticated phishing, session hijacking (stealing cookies), or SIM swapping to intercept SMS codes.
- **Implementation and Cost:** Integrating MFA into legacy systems or non-federated SaaS apps is technically complex and resource-intensive.
- **Device Dependency and Lockout:** If a user loses their phone, changes numbers, or has no connectivity, they may be locked out of their accounts, increasing IT support costs.
- **Privacy Concerns:** Users may hesitate to provide personal data like biometrics or private phone numbers for authentication purposes.
- **The fatal flaw of modern IAM** (Okta, Entra ID) is '**Session Trust.**' A single MFA event creates a static, hijackable session token, leaving the most critical internal actions vulnerable
- **80% of breaches involve compromised credentials** or session hijacking.

MFA still verifies credentials — not the human performing the action

The next step in identity security is verifying human presence and intention, not simply adding more authentication layers

SyberKey addresses this through Human Presence Verification

MFA Challenges



Rewriting the Architecture of Trust



Passwordless authentication replaces vulnerable, user-created passwords with inherently secure methods like biometrics (fingerprint/face), hardware keys, or magic links

. It is adopted to eliminate credential theft, phishing, and password fatigue while boosting user convenience and significantly reducing IT support costs for password resets

Key Reasons for Adopting Passwordless Authentication:

- **Enhanced Security:** By removing passwords, you eliminate the target for 18 billion+ annual attacks, including phishing, brute-force, and credential stuffing. It provides a stronger, single-action identity assurance.
- **Superior User Experience:** Users no longer need to remember, manage, or frequently update complex passwords, resulting in faster logins.
- **Reduced IT Costs and Burden:** Eliminating password reset requests and password lifecycle management significantly lowers help desk volume and operational costs.
- **Improved Productivity:** Eliminating password-related hurdles, such as lockouts and forgotten credentials, reduces time wasted, improving overall workflow

Passwordless authentication removes passwords, but identity is still tied to credentials or devices and therefore **doesn't not confirm human presence.**

SyberKey extends passwordless security by **verifying human presence during sensitive actions.**

Redefining the Root of Trust



Strategic Positioning Statement

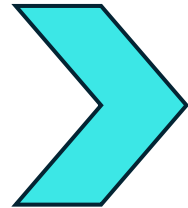
SyberKey is a non static biometric digital credential security platform that replaces OTPs, passwords, tokens, and stored secrets with a continuously enforced, biometric-rooted trust fabric — securing identity, privilege, and data in a quantum-resilient architecture.

In traditional systems, trust is derived from credentials.

In SyberKey, trust is derived from **verified human identity and presence.**

From:

“IAM platform”



To:

Remote Digital Biometric Credential IAM Platform
+ AI layered
++ Post Quantum Resilient
+++ Cryptological Access Plane

Digital systems must now verify:

- the identity of the user
- the **presence of the human**
- the **intent behind the action**

SyberKey addresses this
through **Human Authenticity
Infrastructure**

Human Presence Verification ensures that the identity holder is physically present when sensitive actions occur.

From Identity Access to Human Authenticity Infrastructure (HAI)

SyberKey/OneBioID: The Missing Trust Layer for a Human Zero Trust World.

Integration Band

INTEGRATION LAYER: Works with Okta, Microsoft Entra ID, Google Workspace, SAP, and Core Financial Platforms.

Security Modules



SYBERKEY
(ACCESS)

Human Zero Trust Access.
Continuous identity verification beyond the login.
Eliminates session hijacking.



CPE
(CONTINUOUS ENFORCEMENT)

Continuous Pathway Enforcement.
AI-driven, action-based gating. PQC-ready for post-quantum resilience.



FINGERSIGN

Verifiable Digital Agreements.
Links every signature to a live human presence.
Prevents contract repudiation.



VERIFIEDBIOMAIL

Human-Verified Email.
Authenticates the sender, not just the domain.
Eradicates Executive Impersonation & BEC.

Infrastructure Plane
(The Platform)

HUMAN AUTHENTICITY INFRASTRUCTURE (HAI)

The missing trust layer for the digital world.

Real-Time Human Presence Verification | Verifiable Action Certificates

Core Hub
(The Root)

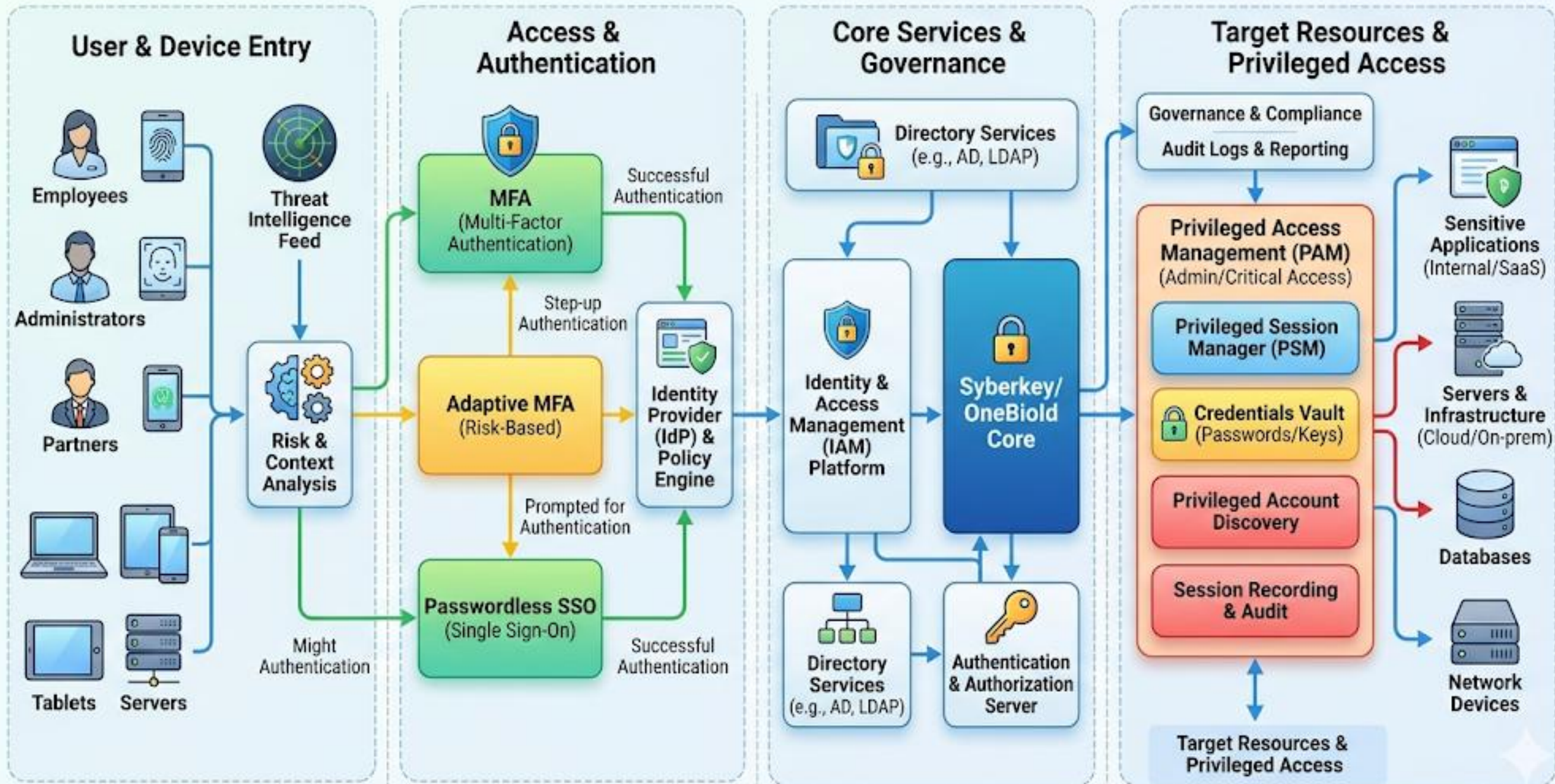


ONEBIOID™

The Single, Portable Human Identity Root.
Hardware-Free | Privacy-Preserving | Self-Sovereign

Never Trust the Session. Verify the Human. At the Moment of Action.

Syberkey/OneBiold: Unified IAM & PAM Architecture



Market Size



Positioned across combined markets:

- **IAM – Identity Access Management** (USD 18–22 billion in 2025 - exceed USD 40–70 billion by 2030–2034)
- **MFA – Multi Factor Authentication** (USD 21–22 billion in 2025 – exceed USD 50–70 billion by 2030-2034)
- **PAM – Privileged Access Management** (USD 3 billion in 2025 – exceed USD 7-10 billion by 2030-2034)
- **Zero Trust** (USD 37 billion in 2025 – exceed USD 90-190 billion by 2030-2034)
- **Identity Governance** (USD 9 billion in 2025 – exceed USD 27-33 billion by 2030-2034)
- **Post-Quantum Security** (USD 1 billion in 2025 – exceed USD 8 billion by 2030-2034)

We are creating a **multi-billion TAM intersection**, not a niche.



Rewriting the Architecture of Trust



Why Now

1. Entra Actor token class vulnerabilities expose backend fragility
2. Deepfake + synthetic identities are surging
3. PQC mandates are emerging in government
4. MFA fatigue attacks have become normalised
5. CISO's are shifting from detection → prevention

Start with Pain

“Your IAM stack protects logins. Attackers don't attack logins anymore.”

“Your biggest exposure isn't authentication failure — it's trusted sessions being abused.”

“What if credentials simply didn't exist?”

Our Moat

- Credential elimination architecture
- Action-bound biometric approval
- PQC-native identity binding
- Patent-pending Continuous Pathway Enforcement
- Independent cryptographic audit chain

“We have spent 25 years protecting credentials. Attackers have spent 25 years stealing them.”

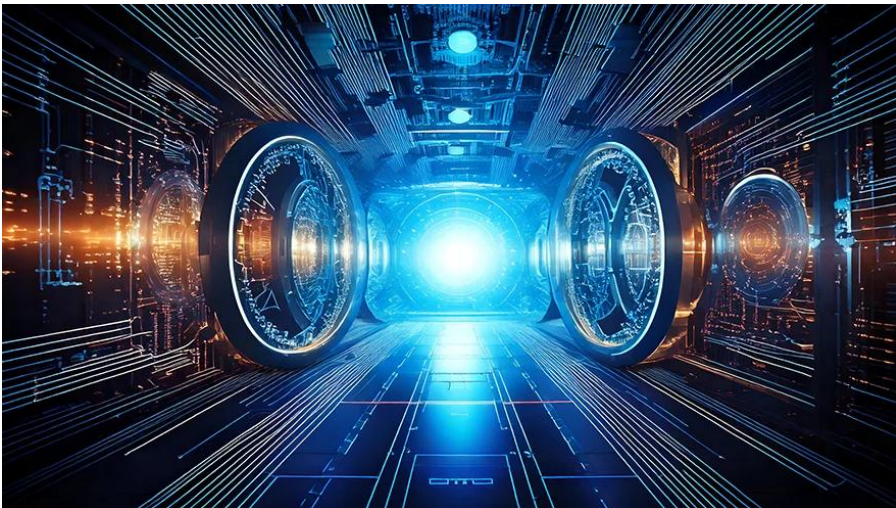
“Maybe the problem isn't how we protect credentials.”

Maybe the problem is that credentials exist at all.”

AI-generated voices, faces, and identities are making credential-based authentication increasingly unreliable.
This creates a need for systems that **verify real human presence**

Human Authenticity Infrastructure: from Credential Security → to Human Authenticity

Quantum-Ready Identity

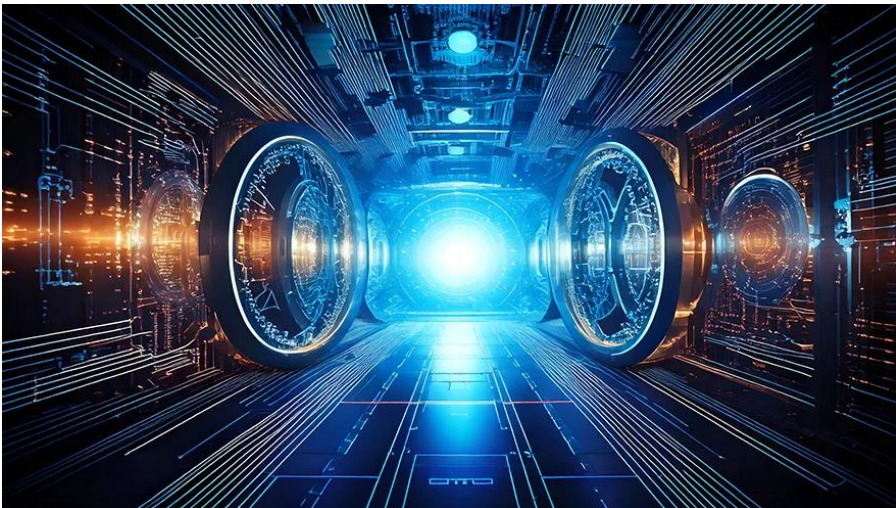


The "Harvest Now, Decrypt Later" Quantum Threat

Adversaries are currently stealing encrypted data with the intent to decrypt it once quantum computers reach sufficient power.

- **The Trend:** Organizations are moving toward "Quantum-Resilient" or Post-Quantum Cryptography (PQC) standards to protect long-term data.
- **The Scale:** * **Gartner:** Forecasts that current asymmetric cryptography (like RSA) must be retired by **2029** to remain secure.
- **DigiCert/NIST:** The first three post-quantum algorithms (FIPS 203, 204, and 205) have been standardized for encryption and authentication.
- **Expert Quote:** > *"Post-quantum cryptography is a critical component of future-proofing organizations... Gartner anticipates this being a critical component of the 2025 Hype Cycle for Digital Identity."* — **Gartner (2025 Hype Cycle).**

Quantum-Ready Identity



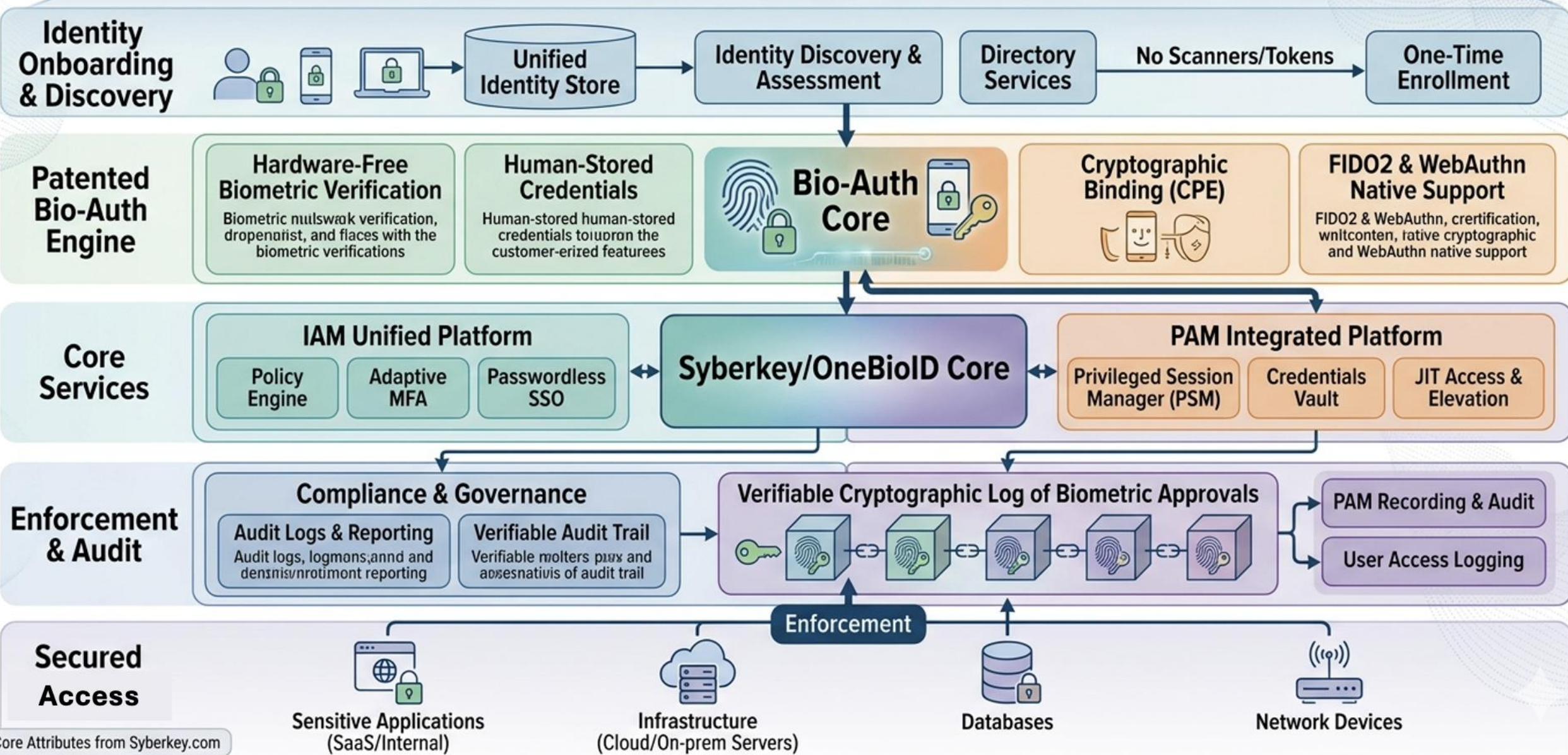
From Identity "Layers" to "Identity Fabric"

The market is shifting away from siloed security tools toward a "connected system" that governs every action, not just the login.

- **The Trend:** The shift toward **Zero Trust Network Access (ZTNA)** where "continuous verification" is the standard.
- **The Scale:** * **Gartner:** Estimates that by 2025, over **60% of enterprises** will phase out traditional VPNs in favor of ZTNA and identity fabrics.
- **Expert Quote:** > *"Identity is the core—the Control Plane—not a layer... The way to fix fragmentation is by approaching identity as a connected system."* — **Gartner IAM Summit 2025 Analysis.**

Syberkey/OneBioID Integrated Identity & Access Governance Architecture

Unified, Patented Bio-Auth Powered IAM & PAM Solution

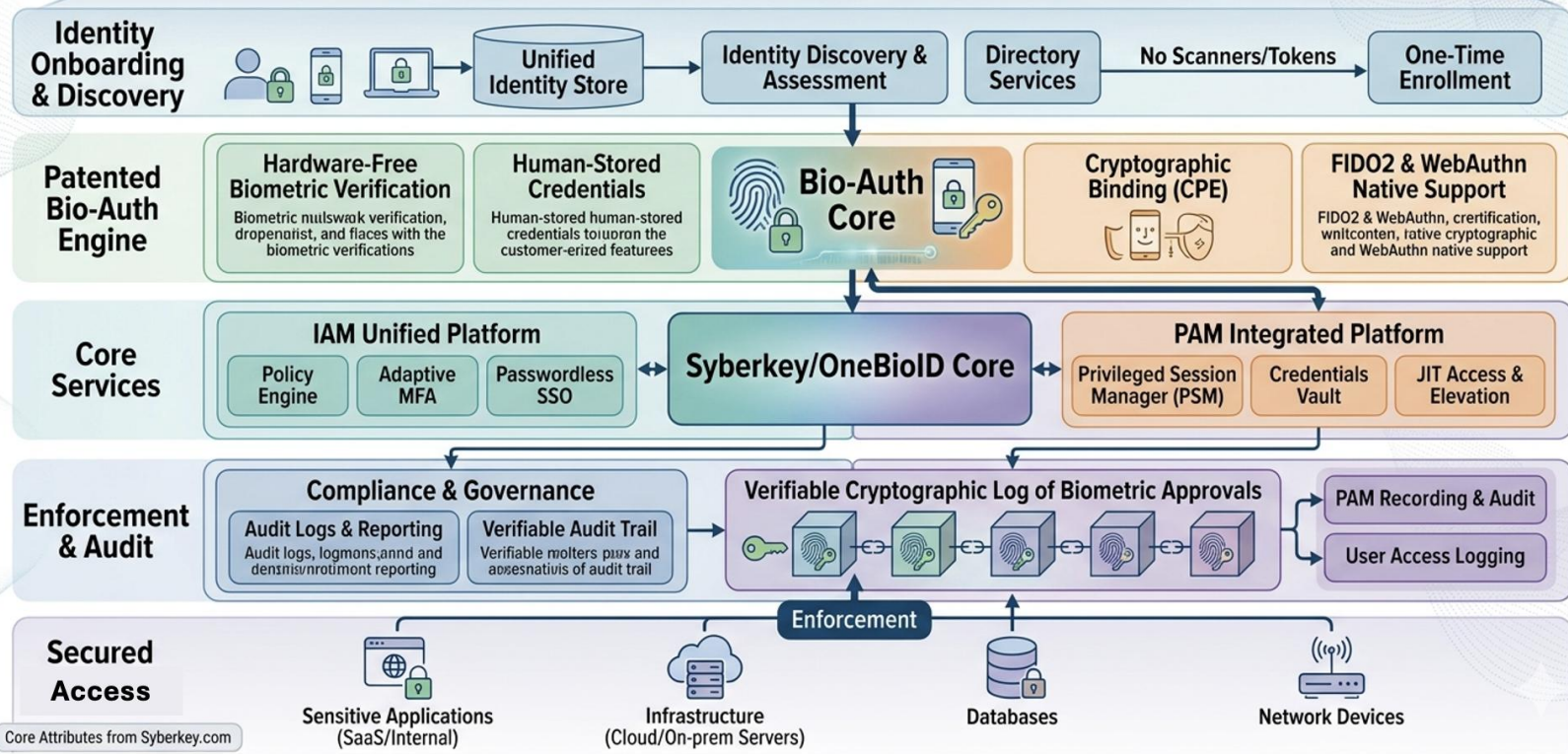


We Don't Strengthen Credentials... We Remove Them



Syberkey/OneBioID Integrated Identity & Access Governance Architecture

Unified, Patented Bio-Auth Powered IAM & PAM Solution



ARCHITECTURE:

OneBioID – biometric-rooted digital identity

- **Human Presence Verification** – live verification of the user
- **Continuous Pathway Enforcement** – policy control of actions

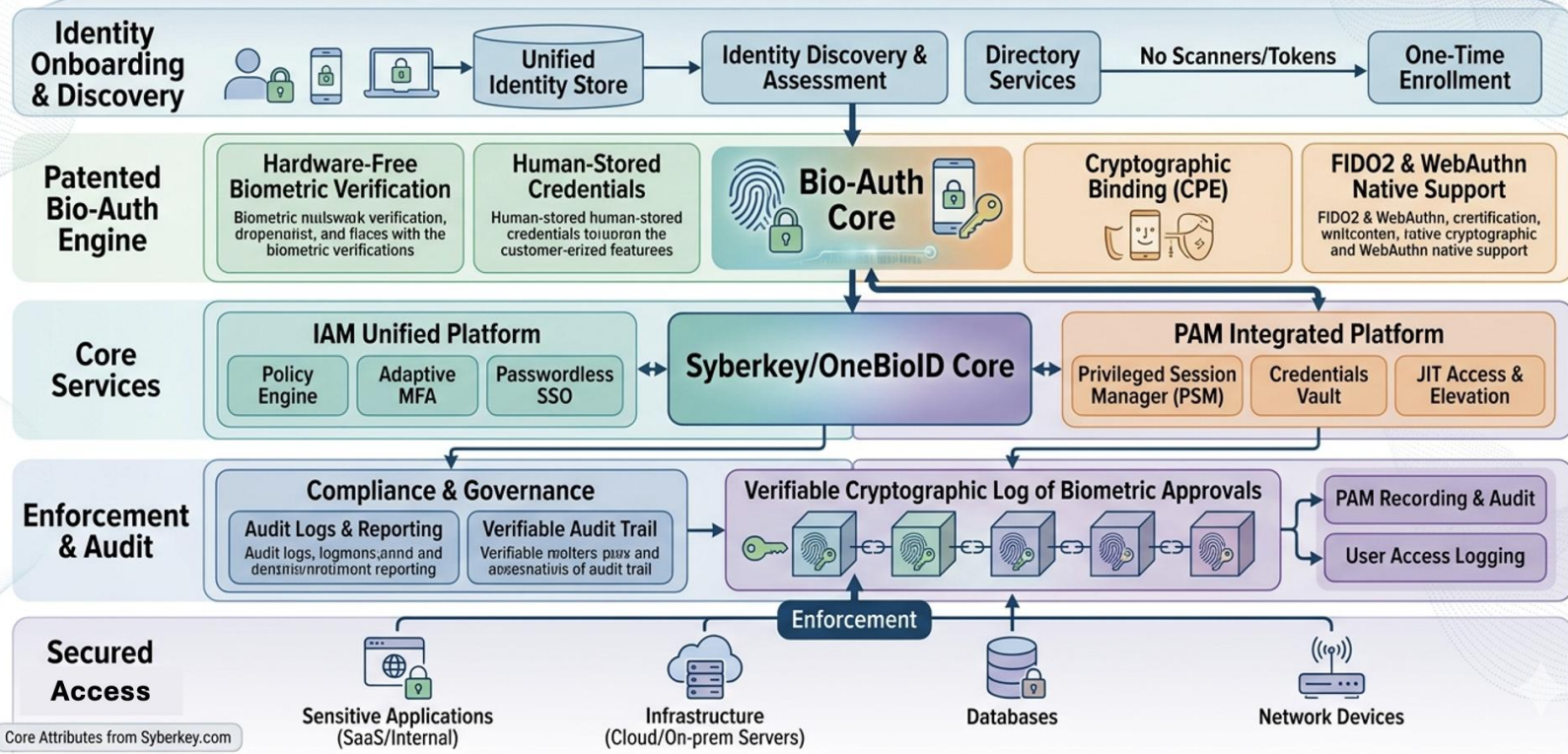
- Trust the Human. Not the Password
- Beyond Login. Beyond MFA
- Eliminate Credentials. Elevate Trust.
- The End of Reusable Identity
- Human-Rooted Security
- Control beyond Authentication
- Continuous Trust. Zero Secrets
- The Future of Identity Assurance

We Don't Strengthen Credentials... We Remove Them



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KEY DIFFERENTIATORS:

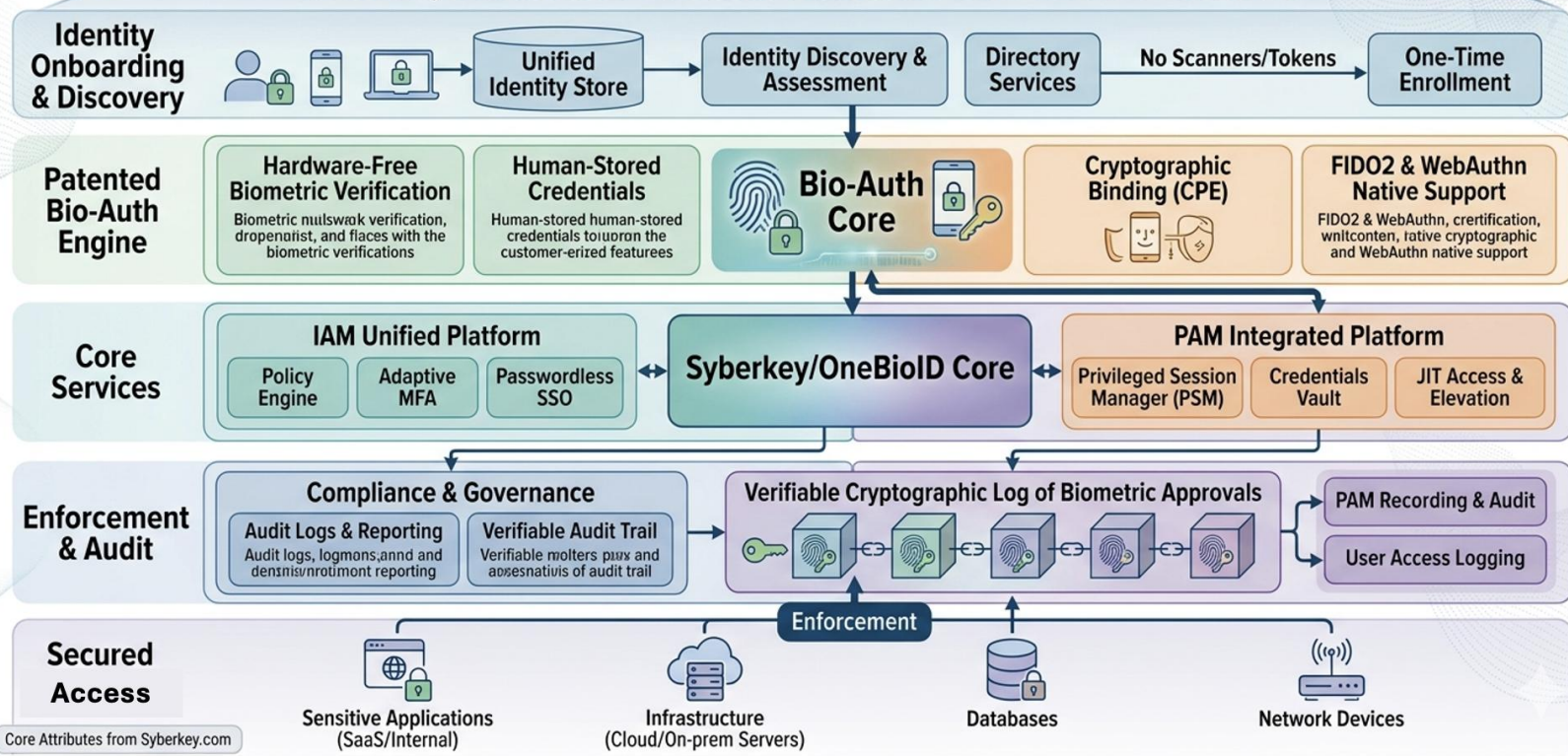
- **Hardware-Free OneBioID™**: Uses existing smartphones for unhackable biometric hashes.
- **Continuous Pathway Enforcement (CPE™)**: AI-driven, runtime control that gates actions, not just users.
- **Human Action Certificates**: The output of your system. It proves who authorized what and when.
- **Quantum-Safe (PQC-Ready): Cryptography** built for the next decade.

We Don't Strengthen Credentials... We Remove Them



Syberkey/OneBioID Integrated Identity & Access Governance Architecture

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THE TECHNOLOGY:

- 1. Identity Root:** User registers once with their portable, hardware-free OneBioID™.
- 2. Action Trigger:** A sensitive system request (e.g., wire transfer, new admin user) automatically pauses execution and demands verification.
- 3. Presence Assertion:** The user performs a local biometric check on their device, generating a non-repudiable Human Action Certificate that unlocks the task.

Red-Team Simulation Narrative

Scenario: Global Financial Services Enterprise



CODE TESTING

ETHICAL HACKING

THREAT AND
RISK ANALYSIS



REPORTING AND
RECOMMENDATIONS

Environment:

Microsoft Entra ID, Okta for Partner Access, PAM Vault, MFA Push Approvals, Conditional Access Policies

Phase 1 – Initial Compromise

Attacker:

- Phishes a regional finance manager.
- Captures session token post-MFA.
- Performs token replay inside trusted session.

Traditional Stack Result:

- Login legitimate.
- Conditional Access satisfied.
- Session trusted for 8 hours.
- Privileged elevation requested.
- MFA fatigue push attack succeeds.

Blast radius:

Admin-level access obtained.

Phase 2 – Privilege Escalation

Attacker:

- Adds new Global Admin.
- Injects credential into service principal.
- Creates persistence mechanism.
- Exfiltrates financial data.

Traditional Detection:

- Logged.
- Flagged hours later.
- SOC response begins.

Damage already done.

Same Attack under Syberkey

Step 1 – Phishing

Password stolen?

Irrelevant. No password exists.

Step 2 – Token Replay Attempt

No reusable session token grants blanket privilege.

Step 3 – Privilege Escalation Attempt

Action requires:

- Live biometric approval
 - Context validation
 - Policy validation
 - Cryptographic action binding
- Attacker cannot generate human approval.
Escalation blocked.

Step 4 – Persistence Attempt

Service principal modification requires:

- Human-in-the-loop biometric sign-off
 - Policy-bound approval
- Blocked.

Same Attack Under SyberKey

Scenario: Global Financial Services Enterprise



Step 1 – Phishing

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Irrelevant. No password exists.

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Step 3 – Privilege Escalation Attempt

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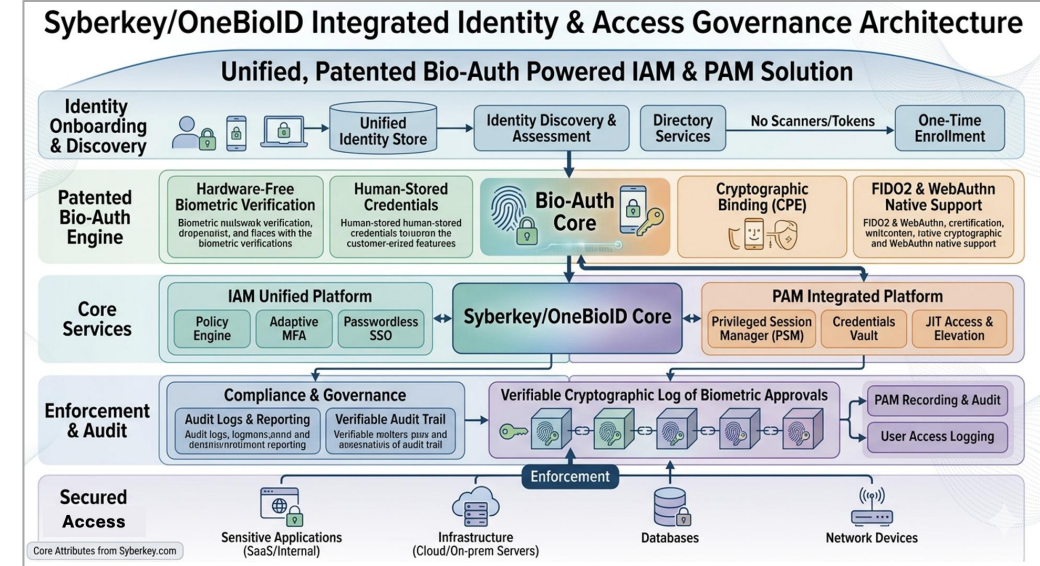
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Environment:

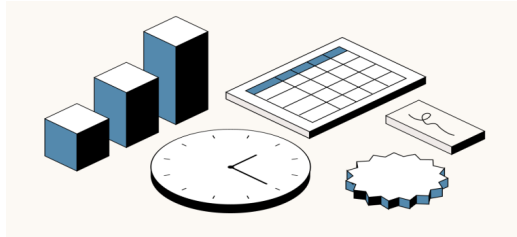
- Microsoft Entra ID
- Okta for partner access
- PAM vault
- MFA push approvals
- Conditional Access policies

Red-Team Conclusion

Attack Stage	Traditional IAM	SyberKey
Phishing	High success	Neutralized
MFA fatigue	Exploitable	Not applicable
Session replay	Possible	No blanket trust
Privilege escalation	High risk	Biometric-gated
Persistence	Achievable	Human approval required
Blast radius	Tenant-wide	Action-contained



Ideal Customer Profiles (ICP)



We are not providing generic IAM.

We are providing:

- **Credential elimination**
- **Privileged action control**
- **Blast radius containment**
- **Quantum readiness**
- **Independent assurance layer**

Our ICP understands & reflects that.

ICP Tier 1 — High-Privilege, High-Regulation Enterprises

- 2,000–10,000 employees
- Complex IAM stack (often hybrid cloud)
- Mature SOC
- Board-level cyber oversight
- Significant privileged workflows
- Highly regulated industry

Target Industries

- Financial services
- Critical infrastructure
- Defense contractors
- Energy & utilities
- Healthcare systems
- Federal government contractors

Tech Environment

- Microsoft Entra ID
- Okta
- PAM (CyberArk, BeyondTrust, Delinea)
- SIEM (Splunk, Sentinel)
- Cloud (AWS / Azure / GCP)

Buying Trigger Signals

- Recent audit findings around privileged access
- MFA fatigue incidents
- Insider threat concerns
- Service account sprawl
- Zero Trust transformation initiative
- Quantum-readiness policy discussion
- Board pressure after high-profile breach
- Change in regulations

Economic Buyer

- CIO / CTO / CDO
- CISO
- Deputy CISO
- Head of Identity
- VP Infrastructure Security

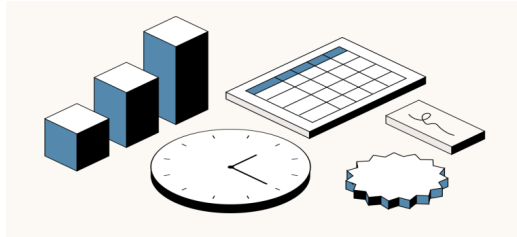
Why They Buy

Not for convenience.

They buy to:

- Adhere to regulations
- Become more secure
- Reduce blast radius
- Eliminate credential-based risk
- Strengthen privileged governance
- Provide board-level assurance

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ICP Tier 2 — Privilege-Heavy Organizations

These are not necessarily regulated — but privilege dense.

Examples:

- Fintechs
- SaaS platforms with admin tooling
- Crypto exchanges
- Payment processors
- Enterprise SaaS vendors

Why attractive:

- High-value admin accounts
- High reputational risk
- High attack probability
- API/service principal complexity

They understand session abuse risk.

ICP Tier 3 — Government & Defense

Particularly attractive due to:

- Post-quantum mandates emerging
- Supply chain security requirements
- Insider threat concerns
- Auditability needs

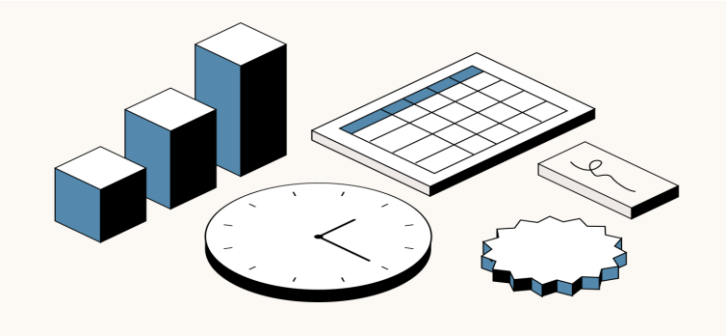
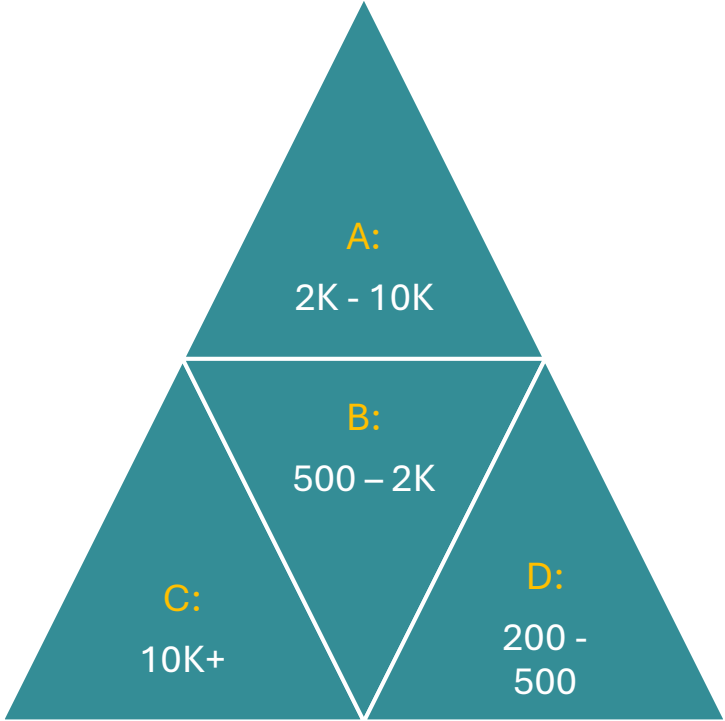
They are slower — but once landed, very sticky.

Who Is NOT Our ICP

Avoid:

- SMB under 500 employees
 - Low-regulation industries
 - Cost-driven IT buyers
 - Organizations that view MFA as “solved”
 - Pure consumer security markets
- Your solution is architectural, not commodity.

Ideal Customer Profiles (ICP)



Criteria	Ideal	Not Ideal
Employee Count	2k+	<200
Privileged Density	High	Low
IAM Maturity	Advanced	Basic
Board Involvement	Active	Minimal
Regulatory Pressure	Medium–High	Low
Security Budget	Strategic	Tactical

Ideal Customer Profiles (ICP): Departments



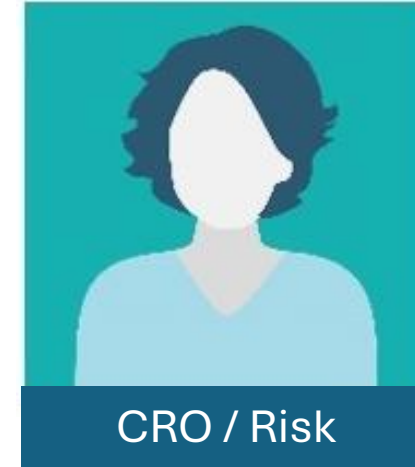
CISO

Identity Risk Reduction



CIO

Infrastructure Assurance

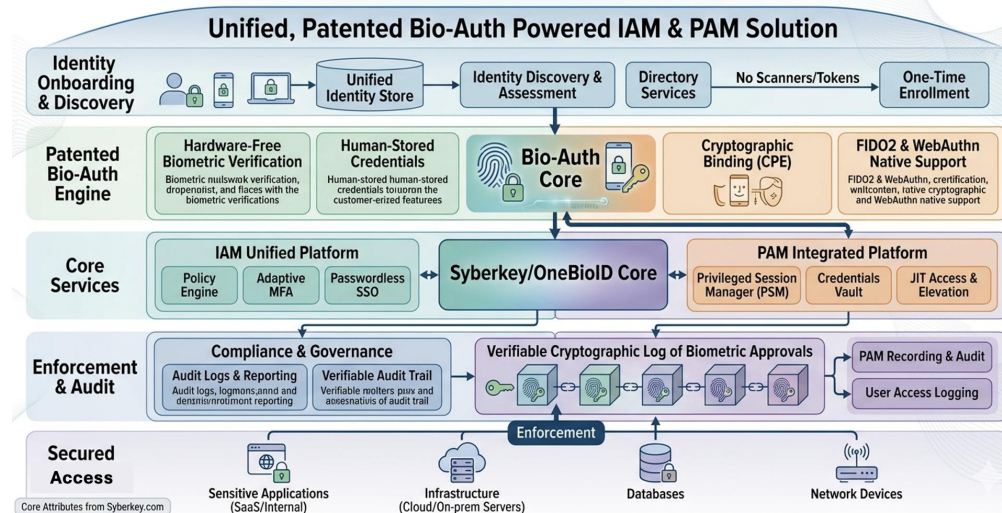


CRO / Risk

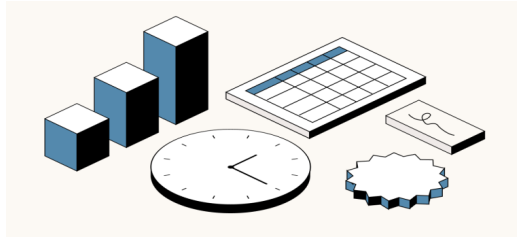
Regulatory Exposure



Syberkey/OneBioID Integrated Identity & Access Governance Architecture



Customer Scenarios – Use Case 1



We are not providing generic IAM.

We are providing:

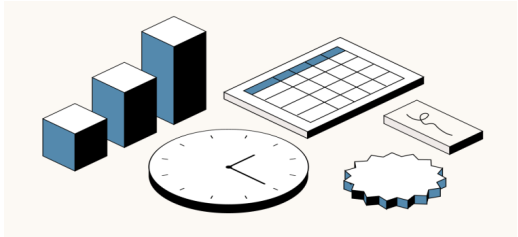
- **Credential elimination**
- **Privileged action control**
- **Blast radius containment**
- **Quantum readiness**
- **Independent assurance layer.**

Use Case 1: Administrative Pathway Protection

Strategic Distinction: Securing the consequences of an admin-level breach.

- **"Locking the Administrative Perimeter – Moving from 'Admin Access' to 'Admin Authenticity.'"**
- **"The SyberKey Fix:** A compromised administrative session (hijacked token) is useless. Critical internal actions, such as creating new privileged users, disabling logs, or exporting sensitive data, automatically trigger an out-of-band **Human Presence Assertion**. The system demands and receives a unique **Human Action Certificate** before the execution can complete."

Customer Scenarios – Use Case 2



We are not providing generic IAM.

We are providing:

- **Credential elimination**
- **Privileged action control**
- **Blast radius containment**
- **Quantum readiness**
- **Independent assurance layer**

Our ICP understands & reflects that.

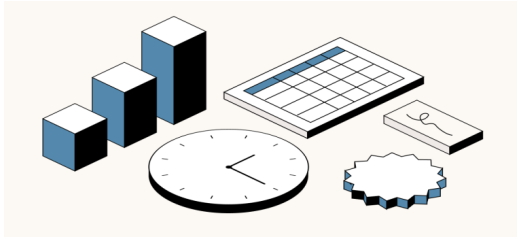
Use Case 2: Multi-Factor Authentication (MFA) Evolution

Strategic Distinction (Solving MFA's Fatal Flaw):

Solving the core vulnerabilities of traditional MFA: **Phishing and Push Bombing.**

- **"Evolving from MFA to Human Zero Trust.** Traditional MFA verifies *nothing* beyond the possession of a device or a secret."
- **The SyberKey Fix:** Our hardware-free, biometric-approval approach means **phishing is technically impossible** as there is no password or shared secret for the user to type. We eliminate 'MFA Fatigue' by making the approval process seamless and **action-aware.**

Customer Scenarios – Use Case 3



We are not providing generic IAM.

We are providing:

- **Credential elimination**
- **Privileged action control**
- **Blast radius containment**
- **Quantum readiness**
- **Independent assurance layer**

Our ICP understands & reflects that.

Use Case 3: Securing Financial Transactions

Strategic Distinction (The Non-Repudiable Transaction):

Providing unique, non-repudiable protection for high-value financial actions compared to standard MFA.

- **Current State:** A compromised session (hijacked token) allows an attacker to authorize a wire transfer invisibly.
- **The SyberKey Fix:** The transfer request itself triggers an out-of-band **Human Presence Assertion**. The bank receives a cryptographic **Human Action Certificate** that proves—at the *moment* of the transfer—the actual, authorized human was present and approved. This makes fraud and transfer repudiation technically impossible.