



# Passwordless Phone-Centric Authentication



Passwords are no longer safe:  
Eliminating the Locks, So Stolen Keys Don't Matter

## About Streamed Access Management

Passwords are the weakest link in security. More than **60% of breaches come from stolen or weak credentials, or from phishing attacks** (Verizon Data Breach Investigations Report, 2024).

They create friction, require constant resets, and remain vulnerable to phishing and credential theft.

**Excalibur eliminates passwords entirely**, replacing them with **seamless, phone-centric authentication** that uses biometrics, geolocation, QR -codes, device trust, and cryptographic verification—that authentication happens only from an authorized, secure phone—blocking unauthorized devices even if someone steals the user's credentials.

## Integrated MFA & PAM

While having a reliable and at the same time separate PAM and MFA could be a valid and effective approach, there is a lot to gain from having the systems integrated.

Excalibur addresses this by ensuring that every action within the PAM system platform is cryptographically signed using key material tied to the MFA. We leverage secure enclaves in mobile devices, similar to the security used in mobile payments, providing robust security guarantees.

This integration ensures that each user action is securely verified and recorded, with the user's identity cryptographically linked to all authentication factors.

By tightly integrating MFA with PAM, Excalibur eliminates the security gaps that might arise from using third-party MFA solutions lacking standardized cryptographic signing capabilities. Unlike OTP hardware tokens, which merely display OTPs for retyping and cannot cryptographically sign actions, Excalibur's integrated solution ensures **comprehensive security by signing every user activity**.

## Key Components

- QR code authorisation
- Phone-centric, seamlessly integrated MFA
- End-to-End Encryption
- Real-time dynamic ID verification
- Zero Trust Access Control
- Non-repudiation



## We increase the security posture of organizations by seamlessly integrating MFA & PAM

This ensures that only the authenticated user can perform actions within the PAM system, significantly enhancing security and trust in the authentication process.

A seamless integration between MFA & PAM, as the one Excalibur provides, brings this and many other benefits that increase the security posture of organizations, reduce exposure and strengthen their Zero Trust architecture.



## Excalibur & Non-repudiation

When MFA and PAM are not fully integrated, critical opportunities to enhance security and non-repudiation are left on the table. These separate systems can lead to weak points where the PAM cannot undeniably verify that an authenticated user is indeed the one performing privileged actions and it can introduce vulnerabilities, reducing effectiveness and leaving the organization **exposed**.

In contrast, by deeply integrating MFA directly with PAM, organizations can achieve a system where each action is cryptographically tied to the user's authenticated identity. This level of integration goes beyond the capabilities of standalone systems, ensuring that security doesn't just "end" at the boundary between authentication and access management, but is **continuous and comprehensive**.

Excalibur offers a more robust, non-repudiation capability, making it **impossible to deny actions** taken within the system and enhancing the overall trustworthiness of the security infrastructure.

Excalibur ensures that every action within the PAM system is **cryptographically signed** using key material directly tied to MFA. This tight integration closes gaps that might otherwise exist with third-party MFA solutions.

**Join us in our journey to democratize Privileged Access Management and try Excalibur today.**

## What Customers Need

**IAM, MFA & Zero Trust** are the most important priorities for CISOs.

"Our mission is simplifying security by replacing VPNs and direct exposure with Streamed Access Management (SAM)—combining PAM, MFA, and secure browser-based access streaming to eliminate exploitable vulnerabilities. SAM enables MSPs to deliver enterprise-grade security affordably to SMEs, disrupting traditional cost and complexity barriers."

**Ivan Klimek**, CEO  
Excalibur



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