

weavr

Enhancing Fintech Security with Approov Mobile App Protection



Client Overview

Weavr is a London-based fintech company specializing in embedded finance solutions. Through its unique architecture, Weavr enables brands to seamlessly integrate financial services directly into their applications. As the company expands its mobile ecosystem, maintaining strong security, compliance, and operational integrity across diverse client environments has become increasingly critical.

The Challenge

Weavr's headless delivery model allows customers to integrate financial capabilities into their own mobile applications while retaining full control over the user experience. However, this architecture significantly expands the attack surface, as Weavr does not directly control the security posture of the end-client application environment. The company needed a way to ensure that only legitimate, untampered applications could access its financial APIs and backend services.

Operating within the highly regulated banking and financial services sector also introduced strict compliance requirements, including PSD2 and Strong Customer Authentication (SCA). Weavr needed to demonstrate to customers, regulators, and partners that its mobile channel was hardened against fraud, automated attacks, and unauthorized access.

In addition, Weavr required a scalable security framework capable of supporting long-term growth and operational continuity as the company transitioned from an initial deployment to a multi-year strategic partnership with Approov.

“At Weavr, our mission is to make financial services as easy to integrate as any other cloud plug-in, without compromising security or compliance. Approov has become a foundational component of our mobile security architecture, providing the real-time app attestation and dynamic certificate pinning capabilities required to securely scale our embedded finance platform across diverse customer environments.”

—Adrian Mizzi, Co-Founder and CTO, Weavr

The Solution

Approov provides a multi-layered mobile application security strategy designed to protect Weavr's APIs, SDKs, and embedded finance ecosystem.

Core Security Capabilities

- **Continuous App Attestation**

Every API request is verified in real time to ensure that only genuine, approved applications running on safe devices can access Weavr services.

- **Dynamic Certificate Pinning**

Approov eliminates Man-in-the-Middle (MitM) vulnerabilities through cloud-managed certificate pinning, removing the need for hardcoded certificates and enabling updates without app releases.

- **Advanced Environment & Tamper Detection**

The SDK continuously monitors for emulators, debuggers, app cloners, rooting/jailbreaking, and advanced instrumentation frameworks such as Frida and Xposed.

- **Real-Time Threat Visibility**

Security teams gain immediate insight into active threats, suspicious activity, and attack patterns through real-time monitoring and reporting dashboards

Implementation & Administration

Approov integrated seamlessly into Weavr's existing development and operational workflows through:

- **CI/CD Integration** for automated security within the development pipeline.
- **Role-Based Administration** using CLI tooling across Linux, macOS, and Windows environments.
- **Over-the-Air Security Updates** enabling rapid deployment of policy and protection changes without requiring app store releases.

The Result

By implementing Approov, Weavr strengthened the security and integrity of its embedded finance platform while maintaining the flexibility of its headless architecture.

Approov's mobile app attestation capabilities ensure that only verified, untampered applications can access Weavr's APIs, effectively blocking bots, scripts, and unauthorized clients. Runtime Application Self-Protection (RASP) and advanced tamper detection capabilities help protect high-value financial transactions by identifying compromised environments in real time.

Dynamic certificate pinning further protects against Man-in-the-Middle attacks without disrupting development cycles. Combined with real-time threat intelligence and monitoring, these capabilities provide Weavr with a scalable and compliant mobile security foundation aligned with the demands of modern embedded finance.

Executive Perspectives

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“We are thrilled to extend our long-term partnership with Weavr as they continue to redefine the embedded finance landscape. In a ‘headless’ service model, the traditional security perimeter disappears, making mobile app integrity the new frontline of defense. By integrating Approov, Weavr has demonstrated a security-first mindset, ensuring that their financial infrastructure remains accessible only to legitimate users and resilient against sophisticated automated threats targeting the fintech sector.”

- Ted Miracco, CEO, Approov Limited

Conclusion

Through the deployment of Approov’s mobile application security platform, Weavr has established a resilient and scalable security framework for its embedded finance ecosystem. The solution enables the company to protect sensitive financial transactions, maintain regulatory compliance, and confidently scale its SDK offerings across diverse mobile environments while preserving trust with customers, partners, and regulators.



Approov protects your revenue by ensuring that only your own mobile apps—running in safe environments and communicating over secured connections—can use your APIs and backend resources. Botnets, malicious scripts, tampered and fake apps are blocked.

Find out more about Approov Mobile Security: www.approov.com