

Major Global Bank Trusts Arxan to Secure Mobile Applications

A major global financial institution that services retail and investment markets with savings and e-transaction capabilities sought to establish market leadership with a rich mobile banking app. Its goal was to enable peer-to-peer payment for its customers to enhance customer service and loyalty.



Challenge: This technology leader had developed a mobile banking application for a number of smartphone platforms including iOS and Android which allows customers to perform sensitive banking functions like transferring funds, viewing accounts, locally saving statements, and making peer-to-peer payments.

Customers could log-in using two-factor authentication which is highly robust. Similarly, network protocols were cryptographically secure, and security in the server is well-developed and robust.

However, security of the mobile application and the data it handled internally was uncharted territory in the new world of mobile banking. Given that mobile security best practices to defend against new threats on the mobile platform, such as tampering or reverse engineering are being defined, the bank needed to deploy innovative security to protect its mobile peer-to-peer app. Additional complexity came from the sheer number of mobile device platforms and for rapidly emerging new form factors that need to be supported.

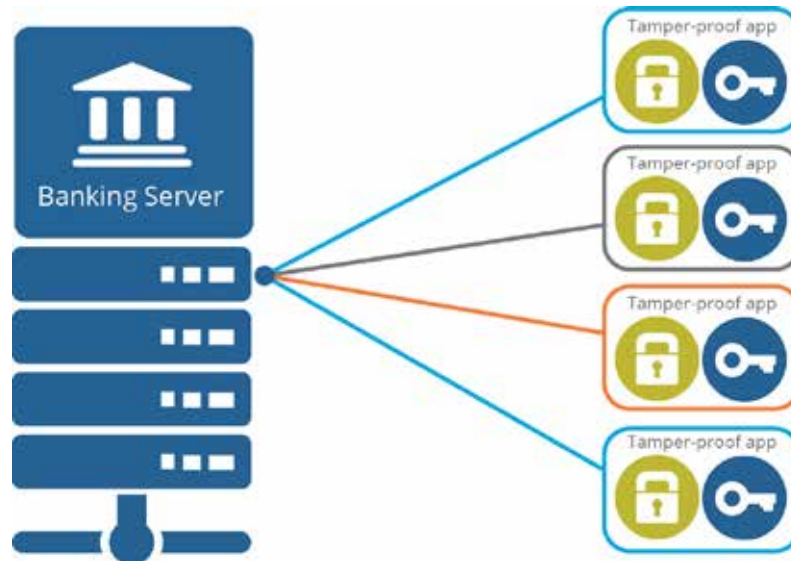


Solution: The application's library, which is the target of protection, resides on the mobile device and is shared by multiple applications. The bank's engineering team leveraged Arxan Application Protection to protect critical cryptography and authentication routines in this application that manage communication with the banking server. The protection works across all devices that the application resides and runs on.

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Results: As innovative new features are rolled out in their mobile banking application, the financial institution can confidently deploy new versions of the app including revised mobile app protection designs with each release. This security best practice is essential to ensuring the security of their application and their customers' sensitive financial and personal data and maintain integrity.



Benefit: The application is protected against reverse-engineering, tampering by malware and tampering by MATE (man at the end) attacks and provides comprehensive security against currently known and potential but as yet unknown threats.

About Arxan Technologies

Arxan is the trusted global leader of Application Attack Prevention and Self-Protection products for Internet of Things (IoT), Mobile, Desktop, and other applications. We help protect our customers against financial loss, brand damage, fraud, IP theft, stolen credentials, fraudulent transactions, unauthorized access, non-compliance with regulatory and industry standards, and more. Our unique patented guarding technology **1. Defends** applications against attacks, **2. Detects** at run-time when an attack is being attempted, and **3. Deters** attacks to stop hackers, send alerts, or repair making customers' applications truly resilient. We are currently protecting applications running on more than 500 million devices across a range of industries, including: financial services, automotive (connected automobiles), healthcare (connected medical devices), digital media, gaming, high tech/independent software vendors (ISVs), and others. The company's headquarters and engineering operations are based in the United States with global offices in EMEA and APAC. **Learn more at www.arxan.com.**