



Case study

Orange Bank & Trust secures authentication with Identity-Bound Biometrics.



Overview

Orange Bank & Trust, a premier financial institution in New York's Hudson Valley, faced a critical challenge in modernizing its authentication systems to meet stringent regulatory requirements while maintaining a seamless user experience.

With over 220 employees working across multiple branches, and strict policies prohibiting personal mobile phones at workstations, the bank needed a secure, convenient alternative to traditional MFA methods.




At the same time, the solution had to be easy to manage for a lean IT team and deliver uncompromising protection for sensitive financial data.



Challenge

With personal mobile phones prohibited at workstations and employees frequently moving between branches, traditional MFA methods like SMS or hardware tokens were not viable. At the same time, the bank's IT team required a solution that was easy to manage, highly secure, and user-friendly for staff across multiple locations..

Key issues:




-  **Regulatory compliance:** Meeting NYDFS and FFIEC cybersecurity standards while protecting sensitive financial data.
-  **Operational constraints:** No mobile phones allowed at workstations and roving employees requiring seamless authentication across branches.
-  **Ease of use and management:** Implementing a secure MFA solution that minimized disruption for employees and was simple for a small IT team to administer.

Solution

Orange Bank & Trust implemented BIO-key's PortalGuard IAM platform with Identity-Bound Biometrics (IBB) to replace password-based authentication and meet strict regulatory requirements.

The solution enables secure, seamless authentication across multiple workstations using fingerprint scanners, eliminating the need for mobile devices or hardware tokens. This approach delivers strong multi-factor security while maintaining simplicity for both users and administrators.

Technical highlights:

-  **Identity-Bound Biometrics:** Fingerprint authentication tied to individual user identities, ensuring non-transferable credentials.
-  **PortalGuard IAM architecture:** Unified platform supporting MFA, biometric authentication, and centralized management for compliance.
-  **Hardware integration:** Workstation-based fingerprint scanners allow roving employees to authenticate anywhere without additional devices.

Impact

By implementing BIO-key's PortalGuard with Identity-Bound Biometrics, Orange Bank & Trust transformed its authentication process, achieving stronger security without sacrificing convenience.

The solution enabled seamless fingerprint-based authentication across multiple branches, eliminated reliance on mobile devices or tokens, and simplified management for the bank's small IT team.

Key outcomes:



Enhanced security: Delivered a biometric MFA solution that meets NYDFS and FFIEC compliance standards, protecting sensitive financial data.



Improved user experience: Provided employees with fast, frictionless authentication using fingerprint scanners at any workstation, eliminating mobile or token requirements.



Operational efficiency: Reduced complexity for roving users and minimized IT overhead with an easy-to-manage, cloud-based IDaaS platform.

Use cases

- Banking and financial services security
- Passwordless workforce access
- Identity-bound biometrics for compliance

Customer benefits

- Highest level of assurance without complexity
- Reduced risk of credential theft
- Flexible deployment options

Strategic value

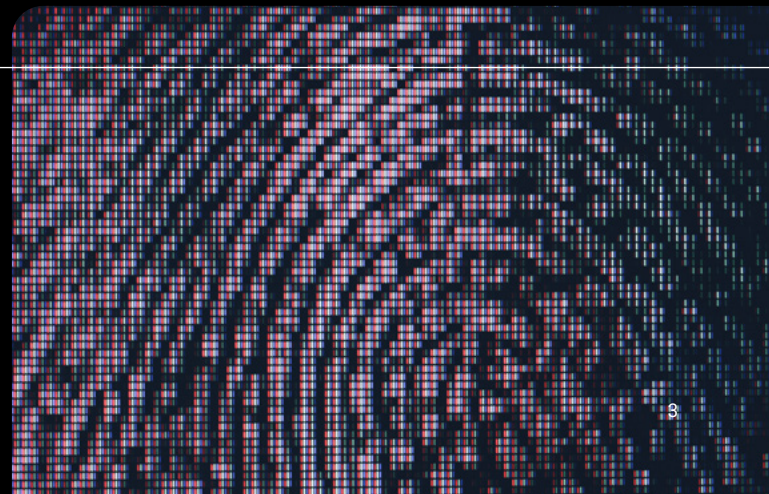
This deployment underscores the critical role of biometrics in financial services security. By placing identity-bound biometrics at the core of its authentication strategy, Orange Bank & Trust demonstrates how banks can meet strict regulatory requirements while delivering a frictionless experience for employees.

It highlights BIO-key's ability to combine compliance, convenience, and trust for organizations that handle sensitive financial data.



“Orange Bank & Trust needed a solution that met strict regulations while keeping operations simple. For security-critical businesses like banks, biometrics must be at the core of identity strategy. By choosing identity-bound biometrics, Orange Bank & Trust showed its commitment this principle, one that BIO-key champions for all organizations that demand trust and protection.”

NAME, BIO-key Leadership





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