



USE CASE | FINANCIAL INSTITUTION DATA BREACHES

KSI + bioLock™ offers banking institutions SAP® access and function control, data protection, and accountability

CHALLENGE > Protect account data within SAP®

The reputation of a major international bank has been tarnished by a data breach involving the loss of hundreds of thousands of accountholder records. Repercussions have been swift. The bank has been forced to pay an EU GDPR administrative fine of several million dollars for its failure to protect consumer privacy. Investigators have traced the breach to a single contractor who performed thousands of unauthorized searches of confidential records within SAP before selling the compromised data on the black market.

Knowing the bank can ill afford another breach, and that similar protections will soon likely be adopted within the

United States and elsewhere, leadership will invest in state-of-the-art technology to secure every aspect of SAP®. The bank recognizes the need for a solution that uses the latest hardware and software, while offering the flexibility needed to accommodate



current internal processes. Of critical importance is finding a solution that requires minimal training and doesn't hamper productivity of the bank's global workforce. A security system that documents and prevents attempted unauthorized access portending fraudulent activity is also essential.

The criminality of a single individual has hurt the bank's shareholders and world standing. Implementing foolproof security that protects SAP® logon, customer account data, and access to SAP® functions is now imperative.

SOLUTION > KSI biometrics + bioLock software

The bank's careful research has yielded the answer for failsafe protection against insider threats and fraud. KSI keyboards with integrated biometrics, used in

Key features and benefits of the KSI + bioLock biometric solution

- Prevents breaches, insider fraud, and theft
- Stops unauthorized access and step-up's
- Easy plug-and-play IAM
- Top quality, no-fail biometric hardware
- Certified by SAP® > the first SAP®-certified biometric solution
- Leverages Windows Hello and the Biometric Framework
- Resides within SAP® and cannot be circumvented
- Protects SAP® functions with biometric reauthentication
- Provides granular control of checkpoints within SAP®
- Secures high risk, high consequence areas in SAP®
- Eliminates the dangers of password sharing
- Secures shared workstations
- Supports GDPR, SOX, POPI and other compliance regulations
- Requires zero user training
- Creates an audit trail of access and attempted access
- Links any SAP® transaction to biometric authentication
- Fully customizable in targeting specific SAP® functions
- Strong and measurable return on investment

conjunction with bioLock software and Windows Hello, are the perfect, time-tested, and SAP®-certified vehicles for achieving the high level of security and documentation required to meet the needs of the bank. The integrated solution addresses authentication of users, accountability, traceability, auditability, fraud and theft protection, and compliance with GDPR. The KSI + bioLock solution requires no special training and will help the bank avoid future, costly penalties. Performed by in-house IT, installation and user enrollment are easy and straightforward.



Encrypted biometric authentication and reauthentication restricts access to financial transactions and data

SECURE SAP LOGON AND FUNCTION REAUTHENTICATION

DESKTOP LOGON >
Users log in using the KSI-1700 UB keyboard with integrated biometric fingerprint reader and Windows Hello.



SAP® LOGON >
Access to the SAP® platform is controlled by KSI biometrics and bioLock software hard coded within SAP® ABAP programming language.



REAUTHENTICATION >
bioLock prompts users to reauthenticate, using KSI biometrics, throughout the day to execute protected SAP® functions. Denied requests prompt instant email alerts.



With KSI + bioLock, all user activity is recorded for a clear audit trail

KSI + bioLock provides the best SAP-certified biometric solution

LOGON SECURITY > The KSI + bioLock team met the bank's first objective of two-factor desktop logon with specification of the SAP®-certified KSI-1700 UB keyboard – authenticating the user with an integrated SecuGen 500 dpi fingerprint reader and Windows Hello. Access to the SAP® platform was then secured using bioLock and KSI keyboard biometrics. KSI + bioLock eliminated the bank's need for passwords that can be shared, stolen, or hacked.

TRANSACTION SECURITY > Within bioLock, the bank configured threshold field values to trigger biometric reauthentication for specific SAP® functions considered to offer risk. Any attempt to access unauthorized functions instantly prompted a silent email alert from bioLock to bank activity monitors. Using KSI + bioLock reauthentication, the bank was able to prevent unauthorized access to all SAP® transactions deemed vulnerable to breaches and fraud.

PRODUCTIVITY > KSI + bioLock offered a seamless solution that enhanced the bank's workforce productivity. Without need for passwords, tokens, or smart cards, workflow became more efficient. The KSI-1700 UB's low-profile keys allowed speedier input than a traditional keyboard. bioLock's ability to replace SAP's Digital Signature saved time for bank employees, who could now rely on a secure biometric process to reduce the original procedure from 10+ to just 1 second.

COMPLIANCE > KSI + bioLock supported the bank's quest for GDPR compliance. The solution protected accountholder data using strong two-factor authentication, and reauthentication, to verify the credentials of users and secure every SAP® function that exposed the bank to data loss, breaches or insider fraud. bioLock provided a documented audit trail that could be used by internal and external auditors. The bank was now at reduced risk for internal breach or incurring a GDPR fine.



KSI + bioLock presents an authentication and reauthentication solution that cannot be shared, borrowed, stolen, or hacked



bioLock

SecuGen



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