Use Case | Pharmaceutical Sector

How KSI + bioLock meets the security and productivity needs of pharma running SAP®

CHALLENGE: Prevent unauthorized access to SAP transactions and loss of intellectual property while increasing employee productivity

Data pertaining to an important vaccine has been exfiltrated by an employee planted by a competing pharmaceutical company. Discovery of the theft resulting from unauthorized access has highlighted the urgent need to shore up access to the entire network, particularly all SAP transactions.

At the same time, employees have long complained that end authentication using SAP Digital Signature is burdensome and inefficient. A robust, all-encompassing security solution that does not impact productivity must be implemented to ensure protection of critical data and valuable intellectual property.

Several criteria must be met in selecting a security solution. The solution must:

- Not allow circumvention,
- Restrict access to SAP transactions,
- Eliminate the use of passwords, which can be lost or compromised,
- Provide an audit trail of end user activity,
- Be plug-and-play without complex programming to implement,
- Conserve time and be easy to use without impact to workflow,
- Require minimal training and setup,
- Leverage use of existing employee laptop computers.

Attacks on biotech and pharma increased 50% between 2019 and 2020, with nation-state espionage aimed at stealing vaccine research being a significant and emerging threat.*

* BlueVoyant® Biotech and Pharmaceutical 2020 Report



Secure Sap Logon and Transaction Reauthentication

DESKTOP LOGON >
Users log in using the KSI-1900 FFFB pod 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® transactions. Denied requests prompt instant email alerts.

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

LOGON SECURITY: The KSI + bioLock team met the company's first objectives of non-circumvention and restricted access to SAP transactions with two-factor desktop logon. Specification of the SAP-certified KSI-1900 FFFB compact security pod authenticated end users with an integrated HID® TouchChip TCET Module and Windows Hello. Access to the SAP platform was then secured using bioLock and KSI biometrics. KSI + bioLock eliminated the company's need for passwords that can be shared, stolen, or hacked.

TRANSACTION SECURITY: The company configured threshold field values within bioLock to trigger biometric reauthentication for specific high-risk SAP transactions. Any attempt to access unauthorized transactions instantly prompted a silent email alert from bioLock to company activity monitors. Using KSI + bioLock reauthentication, the company was able to protect against unauthorized access to SAP transactions deemed vulnerable to breach and fraud.

AUDIT TRAIL: KSI + bioLock offered clear accountability for auditors and security teams by creating log files that detailed status of all SAP transactions, whether accepted or rejected.

EASY INSTALL: Specification of the KSI compact security pod conserved desktop space, offered a plug-and-play rollout, and allowed the company to use its existing laptops. bioLock required minimal training and setup, and the company was able to quickly get up to speed on customizing transaction protections down to a granular level.

PRODUCTIVITY: KSI + bioLock offered a seamless solution that enhanced the company's workforce productivity. Without need for passwords, tokens, or smart cards, workflow became more efficient. bioLock's ability to replace SAP's Digital Signature with a more streamlined solution saved time for employees, who could now rely on a secure biometric process to reduce the original authentication procedure from 10+ to just 1 second.



KSI-1900 FFFB

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

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