Identity and data protection solutions for banks

Protecting banks from the core to the edge with layered security
Establishing layered security from the core to the edge that provides protection for a bank’s entire operational ecosystem now represents a critical requirement for banks. It is through this security that banks can not only combat advanced cyber threats, but gain the agility needed to effectively compete in disrupted markets. Today, banks can leverage a comprehensive set of offerings from Gemalto that deliver effective, layered security. With these solutions, banks can establish protections from the core to the edge, and ensure cyber resilience—meaning even if a specific defense is compromised, sensitive assets will remain secure.

Core to edge security: The new imperative in banking
For today’s bank executives, there are no shortage of demands. Adapting to market disruption. Surpassing the expectations of mobile consumers. Preparing for the next set of regulatory hurdles. Managing costs in a climate of constrained margins.

Perhaps most critical however, is the need to combat an ever-present specter of cyber-attacks. In fact, success and failure in all these other efforts are increasingly contingent upon strong security. A failure to establish persistent safeguards against advanced, quickly evolving cyber-attacks, is liable to undermine success in other areas.

It is for these reasons that layered security from the core to the edge is emerging as such a critical imperative. It is for these reasons that so many banks count on Gemalto.

Gemalto: Complete solutions for establishing core to edge security
Today, Gemalto equips banks with a comprehensive range of identity and data protection solutions. With these offerings, banks can establish layered security that is strong, persistent, and adaptable. Gemalto solutions enable banks to place strong controls around sensitive data and user access.

By leveraging Gemalto solutions, banks can institute security that provides protections at every level of the infrastructure—from the core to the edge. With these solutions, banks can establish cyber resilience—meaning even if a specific defense is compromised, sensitive assets will remain secure.

With Gemalto, banks can leverage layered protections to achieve strong security in eBanking, transaction processing, and enterprise systems. The following sections offer details on the Gemalto solutions available in each of these areas.
**Solutions for core to edge security**

Gemalto delivers a comprehensive set of solutions that enable banks to establish security from the core to the edge.

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**eBanking**

The evolution towards eBanking and the extension of new banking channels, such as PC, mobile and tablet, trigger inevitably more potential attacks for banks. To guard against these threats and to ensure trust, it is critical for banks to establish strong security around all eBanking channels, online and mobile.

With the Gemalto Ezio Suite, banks can secure any eBanking or eCommerce use cases. By combining visible authentication – tokens, mobile, readers - silent authentication – biometric and behavioral data – and risk management, the Ezio Suite protects banks’ customers from external attacks and helps find the right balance between convenience and security in order to offer a frictionless, yet secure, experience. Our robust and future-proof Ezio solutions allow banks to deploy and enhance their services in a secure and user-friendly way across all digital channels while guaranteeing great flexibility in terms of backend implementation and technologies.

**Transaction processing**

Today, it is imperative for banks to guard transactions against sophisticated, persistent attacks. This entails safeguarding internal systems and data in transit between banks and their customers and partners.

Gemalto offers an array of solutions that help banks address these requirements:

- SafeNet Hardware Security Modules (HSMs). SafeNet HSMs deliver maximum security of cryptographic keys, while offering the operational efficiency that comes with working with a central platform for encryption provisioning, authentication, and digital signing.

**Enterprise security**

Within banks’ environments, vast repositories of sensitive data exist. Establishing strong controls over sensitive data, and who can access it and when, is therefore vital. This includes establishing strong controls for employees, whether they’re within bank’s facilities or logging in from remote locations.

Gemalto offers advanced solutions that enable banks to securely and efficiently address these requirements. Gemalto’s portfolio of solutions features these offerings:

- SafeNet Authentication Service. With this fully automated solution, banks can leverage comprehensive authentication capabilities that can be used to protect access to all enterprise applications, including those residing on-premises, in the cloud, and in virtual desktop infrastructure (VDI) environments.

- SafeNet Encryption Connectors. With these solutions, banks can establish strong data protections across their on-premises, virtualized, and cloud environments. We offer solutions for encrypting data in applications, databases, file systems, network-attached storage, and more.

- SafeNet KeySecure. SafeNet KeySecure is a key management platform that can centrally store and manage keys for Gemalto encryption products and third-party solutions.

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**Glossary**

- **HSMs**: Hardware Security Modules
- **VDI**: Virtual Desktop Infrastructure
- **PIN Delivery**: Personal Identification Number delivery
GEMALTO: TRUSTED BY BANKS EVERY DAY

Gemalto has a 30-year track record of serving the banking industry. The company offers the comprehensive and advanced portfolio of solutions that enable banks to employ layered security in their most critical environments. Today, the world’s largest banks rely on Gemalto solutions to secure intra-bank transfers, ATM transactions, digital identity keys, millions of user devices, and much more.

For more information visit:
www.gemalto.com/financial
www.gemalto.com/bank-layered-security