CASE STUDY

Prominvestbank

Founded in 1992, Prominvestbank is recognized as a Top 1000 World Bank, and is one of the largest banks in Ukraine, according to the National Bank of Ukraine. Prominvestbank was also selected as "The Bank of the Year for Ukraine" in 2003, 2004 and 2006 by The Banker, a Financial Times owned magazine.

Challenge

To be eligible to use Ukraine's System of Electronic Payment (SEP), the National Bank of Ukraine requires every bank to secure transactions using a public key infrastructure. In the past, Prominvestbank employed an internally developed system to comply with this requirement. While this system provided a level of transaction security, Prominvestbank recognized the need for a more robust solution capable of protecting high-risk transactions. They wanted a solution that could assure the security of their private keys, be leveraged by multiple applications, and accommodated their need for high availability. Prominvestbank also required a multi-factor authentication solution to authenticate administrators internally and customers.

The Search

Seeking Proven Solutions Prominvestbank identified Gemalto as an industry leader offering security solutions designed to help customers successfully achieve the correct balance of risk mitigation, cost-effectiveness, and usability. They understood that a PKI solution is only as strong as the security of its private keys. Working closely with Gemalto, Prominvestbank designed a security infrastructure that incorporated hardware security modules (HSMs) for root key protection, authentication tokens to authenticate end users, and a flexible platform to centralize authentication management.

The Solution

Prominvestbank selected a system comprised of several best-of-breed solutions, including the Gemalto SafeNet Luna SA HSM, and the eToken 5100 with Gemalto SafeNet Authentication Manager (SAM) for centralized system management.

Luna SA was the ideal HSM for Prominvestbank because it leverages a defense-in-depth approach to provide unrivaled private key security by maintaining keys in hardware throughout their lifecycle. The Luna SA is the only HSM that offers cryptographically isolated partitions able to work independently from each other while securing multiple applications in a single appliance. The Luna SA automates key synchronization across a cluster of HSMs for load sharing and fault tolerance. This high-availability setup maintains consistent key security by storing private keys within the HSMs at all times.

eToken 5100 is a portable two-factor USB authenticator with advanced smartcard technology that offers secure access and digital signing capabilities on a single device. It utilizes certificate-based technology to generate and store credentials, such as private keys, passwords, and digital certificates inside the protected environment of the smartcard chip. To authenticate and digitally sign transactions, users must supply both their personal Gemalto authenticator and password, which provide a critical second level of security beyond simple passwords to protect valuable digital business resources.

SafeNet Authentication Manager provides organizations with a comprehensive platform to manage the full authentication lifecycle across the enterprise in a single, integrated system. SafeNet Authentication Manager's capabilities include central, delegated, and self-service interfaces that allow customized levels of service and functionality to different tiers of users and administrators. With SafeNet Authentication Manager, IT overhead is significantly reduced by streamlining all authentication operations, including deployment, provisioning, enrollment, and ongoing maintenance.

The combination of these solutions allowed Prominvestbank to expand their PKI usage beyond internal payment systems and into external systems. Now, they can securely authenticate their online banking customers and accept transaction signatures online.

Risk Mitigation:

> Defense-in-depth security for the protection of cryptographic keys
> Industry-proven security
> Multi-factor authentication for secure access
> Transaction security

Usability:

> Automated key synchronization for maximum system uptime
> Centralized management and administration of authentication tokens
> Self-service portals and online enrolment for bank customers

Cost Savings:

> Centralized management of HSMs
> Streamlined authentication operations and administration

"Security is so important to our clients. We needed a solution that would provide the level of trust our customers were demanding. Gemalto solutions not only provided the security we were looking for but did so in a way that won't hinder the development and expansion of our business. Our overall experience was very positive."

-Maxim Shelemekh, Head of IT Risk and Control at ProminvestBank

About SVIT

SVIT IT Ltd. specializes in providing a wide range of services in the field of information security in the following areas:

> Delivery, installation, technical support of modern technologies of information security;
> Testing automated systems to identify vulnerabilities and threats to information security;
> Training and consulting for security specialists and network administrators on usage and configuration of information security systems.

About Gemalto's SafeNet Identity and Data Protection Solutions

Through its acquisition of SafeNet, Gemalto offers one of the most complete portfolios of enterprise security solutions in the world, enabling its customers to enjoy industry-leading protection of data, digital identities, payments and transactions – from the edge to the core. Gemalto's newly expanded portfolio of SafeNet Identity and Data Protection solutions enables enterprises across many verticals, including major financial institutions and governments, to take a data-centric approach to security by utilizing innovative encryption methods, best-in-class crypto management techniques, and strong authentication and identity management solutions to protect what matters, where it matters. Through these solutions, Gemalto helps organizations achieve compliance with stringent data privacy regulations and ensure that sensitive corporate assets, customer information, and digital transactions are safe from exposure and manipulation in order to protect customer trust in an increasingly digital world.

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