

SafeNet Hardware Security Modules

True Hardware-Based Key Management
for Next-Generation PKI Applications



What Is a Hardware Security Module?

A hardware security module (HSM) is a dedicated crypto processor that is specifically designed for the protection of the crypto key lifecycle. Hardware security modules act as trust anchors that protect the cryptographic infrastructure of some of the most security-conscious organizations in the world by securely managing, processing, and storing cryptographic keys inside a hardened, tamper-resistant device.

Why Use Hardware Security Modules?

Enterprises buy hardware security modules to protect transactions, identities, and applications because HSMs excel at securing cryptographic keys and provisioning encryption, decryption, authentication, and digital signing services for a wide range of applications.

What Makes Gemalto the Best HSM Vendor?

Gemalto's SafeNet Hardware Security Modules incorporate features developed through extensive operational experience, implementing best practices in hardware, software, and operations that make the deployment of HSMs as easy as possible.

SafeNet HSMs adhere to rigorous design requirements and must pass through stringent product verification testing, followed by real-world application testing to verify the security and integrity of every device.

With **SafeNet Hardware Security Modules**, You Can:

- **Offload and accelerate** cryptographic operations to a dedicated cryptographic processor that eliminates bottlenecks and maximizes application performance
- **Centralize lifecycle management of cryptographic keys**—from generation, distribution, rotation, storage, termination, and archival— in a purpose-built, highly secure appliance
- **Improve profitability and achieve compliance** with solutions for paper-to-digital initiatives, PCI DSS, digital signatures, DNSSEC, hardware key storage, transactional acceleration, certificate signing, code or document signing, bulk key generation, data encryption, and more.

What Makes Our Hardware Security Modules Unique?

Keys in Hardware

Our portfolio of SafeNet Hardware Security Modules (HSM) provide leverage a keys-in-hardware approach to provide a high-assurance key vault for the protection of your most sensitive cryptographic keys. With the keys-in-hardware approach, applications communicate via a client with keys stored in the hardware security module— but keys never leave the HSM.

Next-Generation Features

With an unparalleled combination of features—including central key and policy management, robust encryption support, simplified integration, flexible backup options, remote management, and more – SafeNet hardware security modules enable organizations to guard against evolving threats and capitalize on the emerging opportunities presented in technological advances.

Common Architecture (SafeNet Network, PCIe, and USB HSM Only)

SafeNet General Purpose HSMs benefit from a common architecture where the supported client, APIs, algorithms, and authentication methods are consistent across the entire General Purpose HSM product line. This eliminates the need to design applications around a specific HSM, and provides the flexibility to move keys from form factor to form factor.

High Performance

SafeNet hardware security modules boast of best-in-class performance across a breadth of algorithms including ECC, RSA, and symmetric transactions.

Route to Cloud

SafeNet Network HSMs support many deployment scenarios, from on-premises data centers to private, hybrid, public, and multi-cloud environments, providing a tremendous amount of flexibility as it enables customers to move keys in and out of cloud environments.

Broad Integration Ecosystem

SafeNet HSMs benefit from one of the broadest ecosystems available on the market and integrate with over 400 of the most commonly used enterprise applications for big data, code signing, TLS, web servers, application servers, databases, and many more.

SafeNet General Purpose HSM Portfolio

SafeNet Network HSM (Formerly SafeNet Luna SA)



SafeNet Network HSM is designed with the security of your cryptographic keys in mind, and is the choice for enterprises requiring strong security for cryptographic keys. As a general purpose hardware security module, SafeNet Network HSM can be easily integrated into a wide range of applications to accelerate cryptographic operations, secure the crypto key lifecycle, and acts a root of trust for your entire encryption infrastructure.

SafeNet PCIe HSM (Formerly SafeNet Luna PCIe)



SafeNet PCIe HSM can be embedded directly in an appliance or application server for an easy-to-integrate and cost-efficient solution for cryptographic acceleration and security. The high-security hardware design of SafeNet PCIe HSM ensures the integrity and protection of encryption keys throughout their life cycle.

SafeNet USB HSM (Formerly SafeNet Luna G5)



SafeNet USB HSM delivers industry leading key management in a portable appliance with an USB interface. All key materials are maintained exclusively within the confines of the hardware. The small form-factor and on-board key storage sets the product apart, making it especially attractive to customers who need to physically remove and store the small appliance holding PKI root keys.

SafeNet Java HSM (Formerly SafeNet Luna SP)



SafeNet Java HSM provides a secure platform for the deployment of Web applications, Web services, and Java applications that require the highest levels of trust by combining a standard application server platform and a dedicated hardware security module (HSM) within a single security appliance.

SafeNet Payment HSM Portfolio

SafeNet Payment HSM (Formerly SafeNet Luna EFT)



SafeNet Payment HSM is a network-attached Hardware Security Module (HSM) designed for retail payment system processing environments for credit, debit, e-purse and chip cards, as well as internet payment applications. It offers secure PIN and card processing, message authentication, comprehensive key management and general-purpose cryptographic processing.

SafeNet PIN Delivery (Formerly SafeNet ViewPIN+)



For banks, credit card issuers, telecom operators, and retailers with membership/PIN cards, the award-winning SafeNet PIN Delivery is the only secure Web-based PIN issuance and management solution that delivers unprecedented customer satisfaction and proven cost savings by eliminating expensive, insecure, and time-consuming paper-based PIN delivery to customers.

SafeNet ProtectServer HSM Portfolio

SafeNet ProtectServer Network HSM and SafeNet ProtectServer PCIe HSM



Available in network attached and PCIe form factors, SafeNet ProtectServer Hardware Security Modules (HSMs) are designed to protect cryptographic keys against compromise while providing encryption, signing and authentication services to secure Java and sensitive web applications. SafeNet ProtectServer HSMs offer a unique level of flexibility for application developers to create their own firmware and execute it within the secure confines of the HSM. Known as functionality modules, the toolkits provide a comprehensive facility to develop and deploy custom firmware.



About Gemalto's SafeNet Identity and Data Protection Solutions

Gemalto's portfolio of Identity and Data Protection solutions 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 SafeNet Identity and Data Protection solutions enable 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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