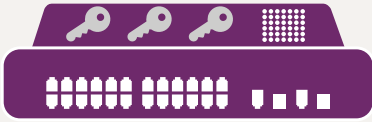


PRODUCT BRIEF

SafeNet KeySecure™



Overview

Centrally manage your encryption keys and ultimately own your data with SafeNet KeySecure, the industry leading enterprise key management platform. Regardless of its location, be it stored in a database, file server, application, traditional or virtualized data center, or public cloud environment, your sensitive data is secure from compromise.

Select from flexible options spanning FIPS 140-2 Level 3 or 1 validated hardware appliances and hardened virtual appliances. Supporting a broad encryption ecosystem— encompassing both Gemalto and a diverse range of third-party products — SafeNet KeySecure supports a hardware root of trust using SafeNet Network Hardware Security Modules (HSM) or the Amazon CloudHSM service.

Highlighted Capabilities

- > **Heterogeneous Key Management.** Manage keys for a variety of encryption products including tokenization, and applications through SafeNet Crypto Pack, as well as self-encrypting drives, tape archives, Storage Area Networks, and a growing list of vendors supporting the OASIS Key Management Interoperability Protocol (KMIP) standard.
- > **Multiple Key Types.** Centrally manage Symmetric and Asymmetric Keys, secret data, and X.509 certificates along with associated policies.
- > **Full Lifecycle Key Support and Automated Operations.** Simplify the management of encryption keys across the entire lifecycle including secure key generation, storage and backup, key distribution, deactivation and deletion. Automated, policy driven operations simplify key expiry and rotation tasks.
- > **Centralized Administration of Granular Access, Authorization Controls and Separation of Duties.** Unify key management operations across multiple encryption deployments and products, while ensuring administrators are restricted roles defined for their scope of responsibilities, from a centralized management console. Also, SafeNet KeySecure can utilize existing LDAP or AD directories to map administrative and key access for application and end users.
- > **High-Availability and Intelligent Key Sharing.** Deploy in flexible, high-availability configurations within an operations center and across geographically dispersed centers or service provider environments using an active-active mode of clustering.
- > **Auditing and Logging.** Detailed logging and audit tracking of all key state changes, administrator access and policy changes. Audit trails are securely stored and signed for non-repudiation and can be consumed by leading 3rd party SIEM tools.
- > **Next-Generation Storage and Archive Solution.** Simplify secure storage and efficiently scale data centers while reducing costs and complexity, with SafeNet KeySecure and leading storage vendors such as NetApp, Dell, Nutanix, IBM, Hitachi, and HPE.

SafeNet KeySecure Benefits

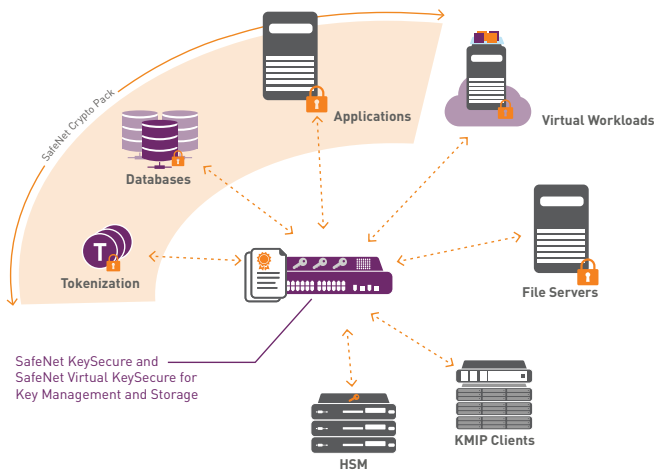
- > **Single, centralized platform** for managing cryptographic content (keys and related data) and applications
- > **Use Case Expansion:** Transform your key management appliance into a server that includes support for the SafeNet encryption connectors SafeNet ProtectApp, SafeNet ProtectFile, SafeNet ProtectDB, and SafeNet Tokenization through the SafeNet Crypto Pack licensing option.
- > **Lower Administration Costs.** Lower the cost of key management and encryption with centralized administration and automated operations
- > **Simplify Compliance.** Efficiently audit key management practices, save staff time, and simplify attainment of compliance mandates with efficient, centralized auditing of key management practices such as FIPS 140-2, PCI-DSS, HIPAA
- > **Lower Total Cost of Ownership.** Leverage a continuously growing list of 3rd party technologies leveraging Gemalto's Encryption Connector family of products and the OASIS KMIP standard
- > **Security and Compliance for Cloud Environments.** Take advantage of the lower costs of virtualized and cloud environments with flexible deployment options and appliance models covering physical, and virtual environments (VMware and AWS Marketplace)
- > **Risk Mitigation with Maximum Key Security.** Tamper-proof hardware options and hardened virtual appliance supporting a hardware root of trust with SafeNet's Network HSM or using Amazon's CloudHSM service
- > **TurnKey Encryption.** In addition to its key management capabilities, the KeySecure appliance offers customers the ability to perform high speed encryption/decryption operations as part of its capabilities. This allows customers to centralize encryption and crypto management operations regardless of its location

SafeNet KeySecure

SafeNet KeySecure offers customers a complete key management and data encryption platform providing the following advantages:

- > Single, centralized platform for managing cryptographic content (keys and related data) and applications capable of running on-premises, in the cloud or hybrid environments
- > SafeNet Crypto Pack – a simple licensing option that transforms your key management appliance into a server that includes support for the Gemalto encryption connectors SafeNet ProtectApp, SafeNet ProtectFile, SafeNet ProtectDB, and SafeNet Tokenization

SafeNet Crypto Pack Solutions



Available Solutions:

SafeNet KeySecure k460 & k450

- > Capacity for large number of keys and encryption transactions

SafeNet KeySecure k250

- > Designed for small / medium businesses
- > FIPS 140-2 Level 1

SafeNet Virtual KeySecure k150v

- > FIPS 140-2 Level 1 validation
- > Virtual security deployed on VMware (ESXi 4 and ESXi 5) or AWS Marketplace
- > Hardened OS
- > Hardware root of trust using SafeNet Network HSM or Amazon's CloudHSM Service for master key

Supported Technologies (All Models):

API Support

- > Java, C/C++, .NET XML open interface, KMIP standard

Network Management

- > SNMP (v1, v2, and v3), NTP, URL health check, signed secure logs & syslog, automatic log rotation, secured encrypted and integrity checked backups and upgrades, extensive statistics

Appliance Administration

- > Secure Web-based GUI, Command Line Interface

Authentication

- > LDAP and Active Directory

SafeNet KeySecure Model Comparison

Feature	SafeNet KeySecure			
	k460	k450	k250	k150v
Max keys	1,000,000	1,000,000	25,000	25,000
Max concurrent clients per cluster	1,000	1,000	100	100
Redundant HDs & PSU	Yes	Yes	No	N/A
FIPS 140-2 Support	Level 3	Level 1	Level 1	Level 1
HSM Integration*	Yes	No	No	Yes
SafeNet Crypto Pack**	Optional	Optional	Optional	Optional
CPU	1 CPU Required	1 CPU Required	1 CPU Required	1 CPU Required
RAM 1024 MB Ram Required	1024 MB Ram Required	1024 MB Ram Required	1024 MB Ram Required	1024 MB Ram Required
Disk Space Required for Install	150G	150G	150G	150G

Gemalto Third-party Integration Support

Analytics: IBM Qradar, HPE ArcSight, Splunk, RSA Security Analytics, Above Security
 Application Servers: IBM WebSphere, Oracle Weblogic, Microsoft IIS, Apache Tomcat, Red Hat JBoss
 Backup Solutions: Commvault Simpana, Symantec NetBackup (via NetApp)
 Cloud Storage: Nutanix, Amazon Web Services S3, Dropbox, Google Cloud Storage, Google Drive, NetApp Cloud ONTAP, NetApp AltaVault, Panzura Storage Controller
 Cloud Access Security Brokers: CipherCloud, SkyHigh Networks, Perspecsys (Blue Coat), Hitachi Sepaton VTL, CSC ServiceMesh, Netskope
 Databases: MS SQL Server (EKM), Oracle (TDE), IBM DB2, Oracle MySQL, Oracle Database, Teradata
 File and Disk Encryption: PKware, MongoDB
 Identity Management: Centrify Privilege Service
 Key Managers: Hadoop KMS, CloudEra Navigator Key Trustee Server
 Physical Storage: NetApp NSE, Dell Compellent (SC and XC), HPE MSL/ESL Tape Libraries, HPE 3Par StoreServ, HPE XP7, Hitachi VSP, Hitachi HUS, Hitachi RAID700, IBM XIV SED, Quantum Scalar Series(i6000, i500 & i40/80), Viasat, Brocade FS8-18

* SafeNet KeySecure will integrate with both SafeNet Network HSM and Amazon CloudHSM

** Remote encryption within the SafeNet KeySecure appliance using the connectors (SafeNet ProtectApp, SafeNet ProtectDB, and SafeNet Tokenization) requires the purchase of SafeNet Crypto Pack. Local encryption, SafeNet ProtectV and SafeNet ProtectFile do NOT require SafeNet Crypto Pack feature activation.

About Gemalto's SafeNet Identity and Data Protection Solutions

Gemalto's portfolio of SafeNet Identity and Data Protection solutions enables enterprises, financial institutions and governments to protect data, digital identities, payments and transactions—from the edge to the core. Our solutions take a data-centric approach to security with innovative encryption methods, best-in-class crypto management, and strong authentication and identity management to help customers protect what matters, where it matters.

Contact Us: For all office locations and contact information, please visit www.safenet-inc.com

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