



SafeNet Data Encryption and Control

**Securing data over its lifecycle,
wherever it resides from the
data center to endpoints and
into the cloud**



Ensure Data Protection with Data Encryption and Control

Across a wide range of industries, organizations today rely on information technology to reach new customers, enhance business collaboration, increase operational efficiencies, and deliver better services. As they rapidly expand their use of IT across the enterprise, organizations will continue to realize important benefits. But they also will confront new challenges. Retailers, healthcare providers, financial institutions, manufacturers, utilities, and government agencies need new approaches to enterprise security that can protect the large and growing collection of valuable data assets produced by this IT explosion while enabling those organizations to maintain ownership of their data throughout its lifecycle.

Organizations need to secure corporate information, customer data, and intellectual property throughout its lifecycle, as it is created, shared, stored, and accessed. They need to ensure that protection follows data wherever it goes, from the data center to the endpoint and into virtualized settings, including cloud computing environments. And they need a platform that will continue to deliver the utmost security even as their business and industry changes. These solutions must protect information at every step in its lifecycle—as it is created, shared, accessed, and stored. They should confirm the identity of a customer using an ATM, secure a subsequent electronic fund transfer between banks, protect that customer data when it is accessed later by a call center agent, and defend against breaches as the banks back up data to remote facilities. Only holistic, end-to-end solutions can offer full protection at every step along these information pathways.

SafeNet: Information Lifecycle Protection

SafeNet delivers the next generation of information lifecycle protection with solutions designed to secure identities, transactions, data, and communications. With a broad set of offerings, SafeNet can help you find the right solution to address your specific, immediate security needs. At the heart of data protection, SafeNet offers data encryption and control solutions that protect information at critical points in its lifecycle.

Data Encryption and Control

SafeNet data encryption and control solutions focus on data, providing persistent protection of sensitive data throughout its lifecycle, wherever it resides. Information is protected at every moment—when it is created by an employee on a company laptop, shared with a business partner by e-mail, stored in an enterprise database, processed by an application, and accessed by a field employee on a mobile device. Security extends from the data center and cloud computing environment to desktops, laptops, mobile devices, and removable media. Even if devices are lost, stolen, or misappropriated, data remains protected from all unauthorized users.

SafeNet solutions offer comprehensive security to organizations of all sizes. Select solutions that address current needs. Then scale solutions when you add customers and employees, open new stores, and collaborate with new partners, or when you need to protect against new threats or comply with new regulations. SafeNet solutions give you the confidence to expand your business.

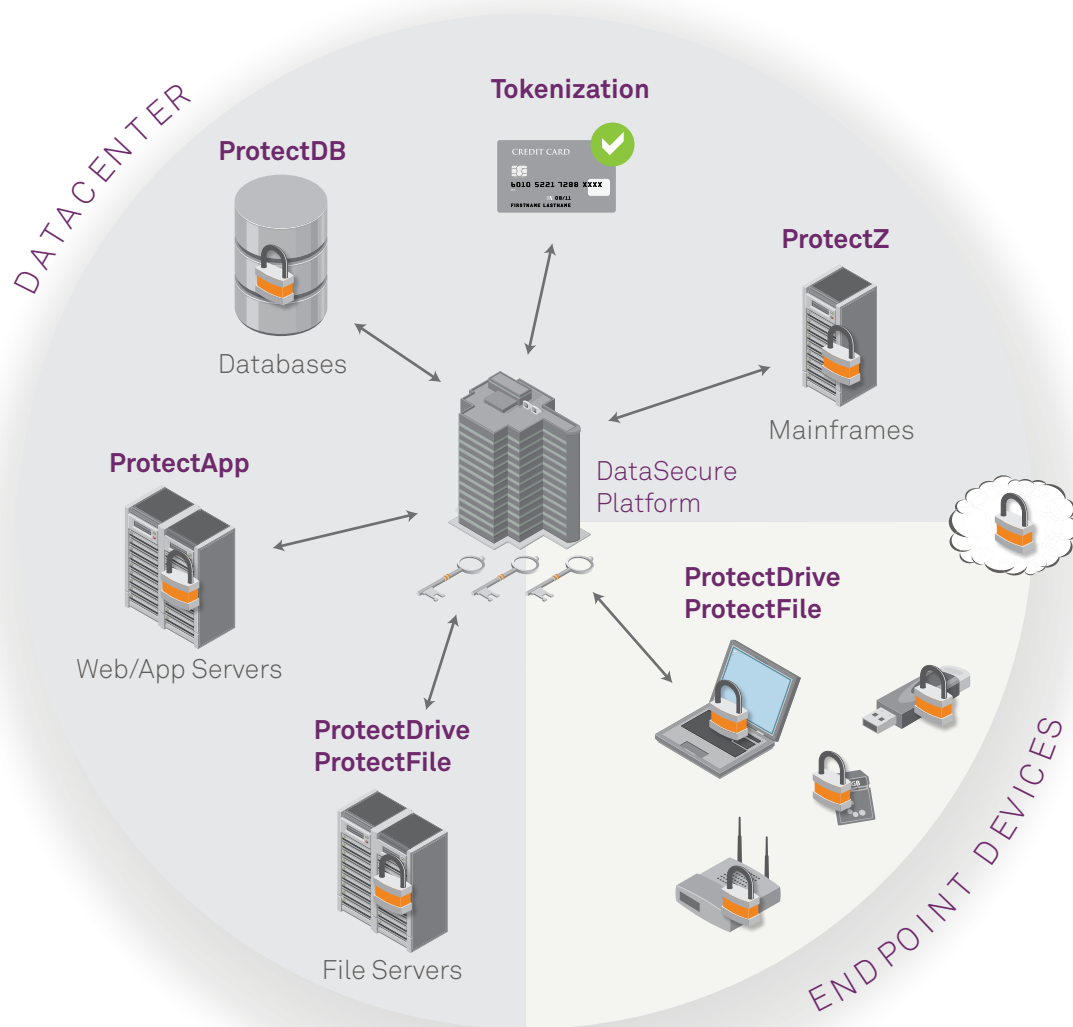
Securing data over its lifecycle, wherever it resides from the data center to endpoints and into the cloud.



DataSecure: The Foundation for Data Encryption and Control

SafeNet DataSecure appliances are the heart of all SafeNet data encryption and control solutions. Using hardware-based encryption, DataSecure appliances deliver the highest level of data security available in a commercial solution, covering the broadest variety of data types. DataSecure offers a unified platform with data encryption and granular access control capabilities that can be applied to databases, applications, mainframe environments, and individual files. By providing centralized management of keys, policies, logging, auditing, and reporting functions, DataSecure simplifies management, helps ensure regulatory compliance, and maximizes security.

Flexible deployment options enable you to select the appliance that meets your processing and security-level needs now and in the future. Once you choose the appliance, you can select among software security options for data center and endpoint protection. Work with SafeNet to tailor solutions for your specific enterprise needs.

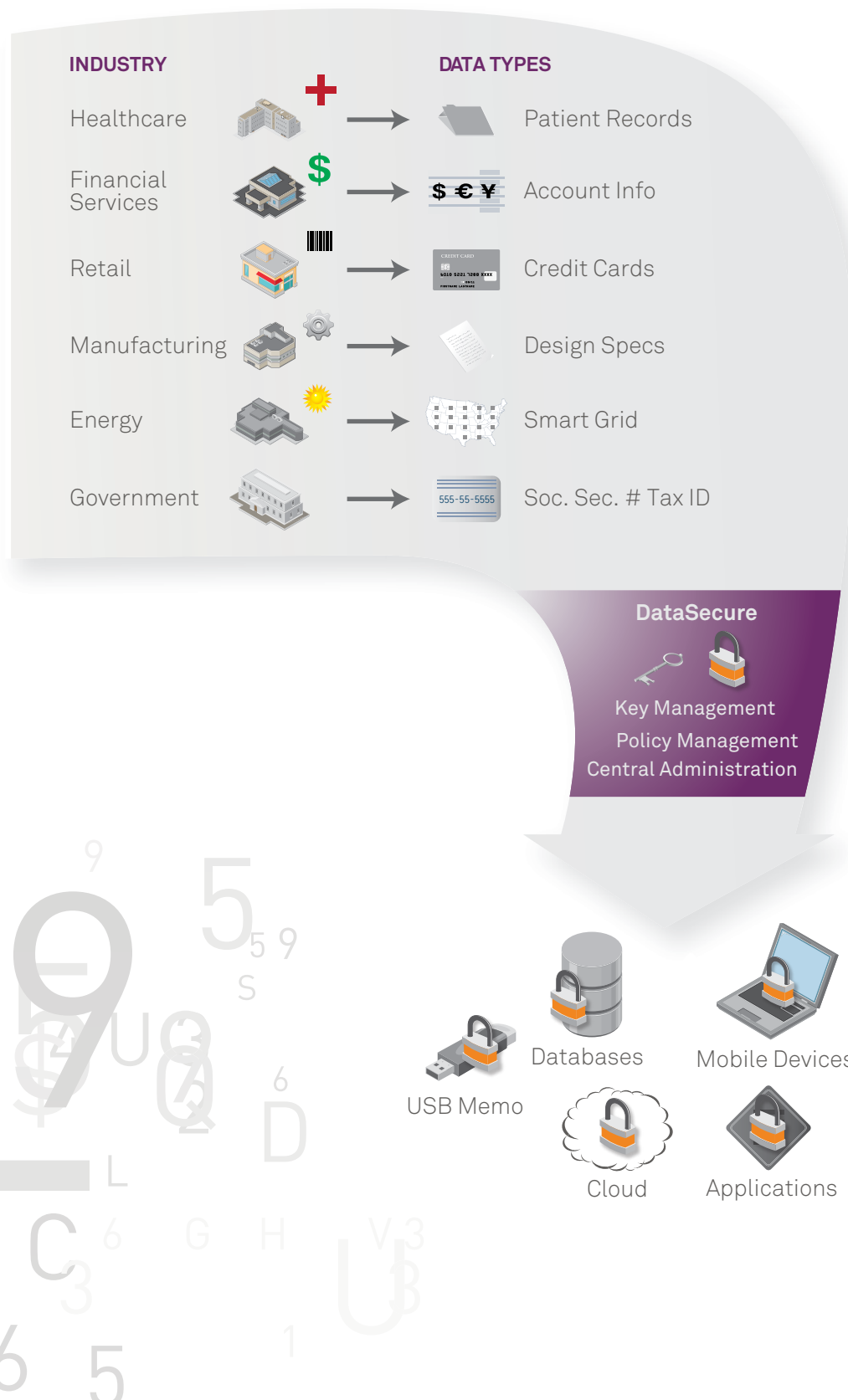


DataSecure provides centralized management of keys, policies, and essential functions

Data Center Protection

SafeNet solutions for the data center are designed to secure all of the sensitive information that is stored in and accessed from enterprise data centers, including patient records, credit card information, social security numbers, and more. With the SafeNet data encryption and control solution suite for the data center, you can protect the structured data stored in databases, applications, and mainframe environments as well as the unstructured data kept in file servers. By combining robust encryption, policy-based access controls, and centralized administration, SafeNet data center solutions keep valuable assets protected while ensuring regulatory compliance.

SafeNet solutions secure sensitive information through a combination of encryption, access controls, and centralized administration.



Data Center Protection Solution Suite

ProtectDB

SafeNet ProtectDB software is integrated with a DataSecure appliance to deliver powerful protection for the sensitive corporate and customer information stored in databases. With ProtectDB, you have the flexibility to encrypt data at the column level within databases, at the application layer, and during batch-driven data transformation and transaction processes. ProtectDB helps avoid the risks of “privileged-user” access by allowing for the separation of administrative duties. Centralized key and policy management provided with DataSecure simplifies the enforcement of data encryption in virtually any number of databases across heterogeneous environments.

ProtectApp

To protect the data that resides within enterprise applications, select SafeNet ProtectApp software. Whether you need to protect credit card information, e-mail addresses, health records, or national IDs, ProtectApp offers persistent protection by combining proven encryption algorithms with granular, policy-based security. Data is secured transparently, without affecting application performance or the user experience. The centralized key and policy management provided with the integrated DataSecure appliance enables administrators to support a large number of applications.

ProtectFile

SafeNet ProtectFile software enables you to secure the unstructured data residing on data center servers. Working with a SafeNet DataSecure appliance, ProtectFile encrypts data and controls access to sensitive folders and files kept on the hard drives of local and remote servers, network drives, and file servers. By selecting ProtectFile, you can facilitate collaboration with the confidence that your word processing documents, spreadsheets, designs, and images will all remain secure throughout their lifecycle.

ProtectZ

SafeNet ProtectZ software works with DataSecure to protect application data in IBM z/OS mainframe environments, which have long been the choice for running mission-critical enterprise software. Administrators also can encrypt or decrypt specific fields in bulk within flat files—such as credit card numbers, social security numbers, or e-mail addresses—to move large amounts of sensitive data in and out of data stores. With ProtectZ, you gain simple ways to protect some of your most valuable applications and data.

Tokenization

SafeNet Tokenization can play an important role in SafeNet data center solutions, keeping encrypted information safe and secure while ensuring smooth application performance and transparent operation for end users. Employed for online credit card transactions or transmission of other sensitive data, tokenization works by replacing sensitive data with tokens that preserve information formats. SafeNet Tokenization offers a range of integration options so you can protect multiple types of data without affecting critical IT components. Tokenization also helps simplify audit compliance by reducing the audit scope.

Securing Wireless Customer Information

A leading U.S. wireless service provider adopted a SafeNet data center solution to better protect consumer privacy and ensure compliance with the PCI Data Security Standard. With a SafeNet DataSecure appliance and ProtectDB software, the company is able to encrypt and safeguard vital customer data, including credit card numbers and bank account information.

With data stored in 36 application and database servers across three data centers, centralized management capabilities are extremely helpful in simplifying ongoing administration while also providing the flexibility for change. “We continue to add new types of data that need to be encrypted,” says one of the company’s project managers. “Because our SafeNet solution offers centralized management of keys and security policies, we can add new elements into our encryption processes very efficiently.”

DataSecure appliances deliver the highest level of data security available, covering the broadest variety of data types.

Building a Foundation for Secure Endpoints

Vernon Building Society—a British mortgage, savings, and investment organization—needed a security solution that could safeguard the customer data residing on laptops used by mobile employees. The organization chose SafeNet ProtectDrive, which can encrypt the entire hard drive of laptops, servers, workstations, or desktops as well as removable media.

If any of the Vernon Building Society laptops are lost or stolen, sensitive customer information will be fully protected. ProtectDrive also helps ensure that the company can comply with privacy regulations.

According to the assistant IT manager, Manmohan Purewal, ProtectDrive has been easy to incorporate into company operations: “ProtectDrive was very simple to install and manage. It integrated seamlessly with the Microsoft Windows environment with no performance hit. It was almost completely transparent to the end user.”

Endpoint Protection

Data protection cannot end with the data center. It is critical to ensure persistent protection of sensitive information as it reaches the variety of endpoints used by employees and business partners. Combining policy and end-user protection, the SafeNet data encryption and control solution suite for endpoints ensures that sensitive data remains secure as it is accessed, shared, and stored beyond the data center. With this SafeNet suite, you can secure critical, unstructured data located on the broadest range of endpoint devices, including desktops, laptops, mobile devices, and removable media. Administrators can enforce encryption for particular files and folders or entire disk drives while end users can choose to protect specific data.

ProtectFile

In addition to securing the unstructured data on data center servers, SafeNet ProtectFile can be used to protect the folders and files stored on endpoints, including desktops, laptops, and removable media. Working together with a SafeNet DataSecure appliance, ProtectFile software combines encryption and access control policies to secure word processing documents, spreadsheets, images, designs, and more. ProtectFile enables administrators to set policies and lock down files that might wind up on a variety of endpoints, while end users also can encrypt the files that they use on the move, with their laptops, netbooks, and removable media.

By protecting data wherever it goes and however it is used, ProtectFile helps boost productivity and provides the confidence to deepen collaboration.

ProtectDrive

SafeNet ProtectDrive is an award-winning full-disk encryption product that secures entire hard drives in laptops, workstations, and servers, as well as removable media. By using ProtectDrive, you can ensure that sensitive information remains secure and compliance is maintained even if a system is lost, stolen, or disposed of improperly. Centralized administration makes ProtectDrive easy to deploy and manage.

Cloud Security

More and more organizations are adopting cloud computing paradigms to increase IT flexibility, improve resource utilization, and reduce costs. For example, some organizations are moving toward cloud solutions to provide elastic storage. With SafeNet cloud security solutions, enterprises can secure their data in the cloud for backup, disaster recovery, and data archiving—maintaining ownership with confidence. SafeNet solutions provide the flexibility to support evolving cloud delivery models, from today's software-as-a-service (SaaS) offerings and private clouds to emerging hybrid and public clouds models. With SafeNet security solutions, organizations can fully leverage the business benefits of cloud environments while ensuring trust, compliance, and privacy.

A Solid Foundation for the Future

SafeNet data encryption and control solutions play a crucial role in delivering information lifecycle protection. Incorporating SafeNet data center and endpoint solutions allows you to ensure that valuable data assets remain protected throughout their lifecycle, no matter where they are stored or how they are accessed.

The SafeNet data protection solution family is easily tailored to your specific, immediate needs. Building a security infrastructure on SafeNet products also provides a solid foundation for the future. Whether you add applications, open new remote offices, enable access to corporate networks from new mobile endpoints, or integrate cloud computing into IT, SafeNet can help you make sure sensitive information remains secure.

SafeNet can help make
sure sensitive information
remains secure.

Supporting SafeNet Offerings

To deepen data center security, incorporate supporting offerings from SafeNet such as content security or authentication.

SafeNet eSafe SmartSuite is a simple and intelligent gateway offering that combines real-time Web and mail content inspection, pragmatic data-loss protection, anti-virus capabilities, malware and spam prevention, plus application control. With the eSafe SmartSuite, you can ensure that the data passing into and out of the organization has been secured.

SafeNet offers a wide range of multi-factor authentication (MFA) solutions to make sure only authorized individuals can access sensitive data residing in the data center and on endpoints. Use public key infrastructure (PKI) smart cards, certificate-based PKI USB authenticators, software authenticators, and hybrid USB authenticators (which combine one-time password [OTP], encrypted flash memory, and certificate-based technology on one device), to ensure critical information is well protected on PCs and laptops.



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