

# THALES

Someone is stalking your sensitive data. Coveting your intellectual property. Waiting for the slightest crack in the window of opportunity to hack it, misuse it, and run. How can you best protect and control access to your data while in use, at rest, and in motion?



Strong data protection.  
Strategic business value.

[www.thales-ecurity.com](http://www.thales-ecurity.com)





# Advanced Data Protection Solutions from Thales e-Security

*"The protection afforded by our Thales HSMs is the cornerstone of our advantage in the marketplace. They help to enable a level of security that exceeds current standards while also lowering the lifetime operating costs of POS devices."*

**Patty Walters, Vice President of Global Solutions, Hypercom**

Thales e-Security is the global cryptographic security solutions provider of choice for corporate, financial services, defense and government entities around the world. Our high-performance products span all data protection requirements:

- **In use** – Dynamic protection for applications to enforce robust access control policies and simplify the path to data protection compliance
- **At rest** – Persistent protection through storage and database encryption to ensure data integrity and availability
- **In motion** – High-strength encryption to optimize performance and utilization for Internet traffic and backbone private networks

Why Thales? Our solutions increase data security while reducing the scope, cost, and complexity associated with enterprise-wide adoption of encryption and key management best practices. As a result, our customers have greater operational control and more efficient enforcement of security policies across organizations, locations, and applications.

## Thales Technology Solutions

High performance, best-in-class, certified security. Designed to keep data secure regardless of its location – regardless of the threat. Thales enables the implementation of strong encryption, key management and authentication solutions for enterprise, government, and financial services entities. Our latest generation of hardware security modules (HSMs) can be used to complement a host of business applications and other elements of critical infrastructure. What's more, they are the first to span all common deployment scenarios from portable USB connected devices to high-performance data center appliances.

Thales network encryption technology solutions protect networks with the strongest cryptography available today without impacting network performance. In the area of storage encryption, Thales key management systems remove the risk of losing keys and reduce operational costs. Looking beyond the need for data confidentiality our digital signature and timestamping technologies ensure the integrity of your business critical documents, transaction data and identity credentials.



*"Our Thales HSMs protect our encryption keys, safeguarding customer data from breaches. Just as importantly, it helped make achieving PCI DSS compliance far easier and more cost-effective."*

**Terry Mainiero, Director of Store Systems, Follett Higher Education Group**

Collectively these technologies ease your path to compliance and finally bring risk under control. With a proven track record of success around the world, you can trust your sensitive data – in use, at rest, in motion – to Thales and the most advanced encryption technology in the market.

### **Thales Business Solutions**

Thales encryption and secure identity technology leads the market, but we provide more value than that. Thales is also your trusted business partner. As such, we work closely with commercial

application developers, provide tools for in-house software teams and offer custom development services to maximize innovation and deliver complete solutions with your unique business goals clearly in mind.

Public and private entities around the world and in a host of industry sectors rely on Thales to secure their sensitive transactions, data and networks. The world's financial giants depend on our comprehensive solutions for secure online banking, trading payments and PIN processing. Global manufacturers use the power

of Thales HSMs to win the battle against intellectual property theft and product counterfeiting. The trusted security of Thales encryption and strong authentication technologies supports your business goals no matter where you need to keep data secure – in applications, databases, storage systems, networks or in a cloud computing environment. Most importantly, Thales solutions make it easier and more cost effective to achieve compliance with the strictest security standards and data protection laws.







# Thales e-Security Product Portfolio

## Application Data Security

Protect data in use with Thales nShield Hardware Security Modules (HSMs). Highly secure, our HSMs protect the keys and applications that underlie your critical security processes – from the data center to the desktop. They feature sophisticated key management capabilities to tightly control the use and administration of keys – all within a certified tamper-resistant environment for security you can trust, end-to-end, even in hostile environments.

**nShield Connect** – A high-performance, networked HSM providing secure cryptographic services across the data center to support and protect critical applications such as public key infrastructures (PKIs), database encryption and a host of web portal and data processing applications.

**nShield Solo** – An embedded HSM, provided as a PCI or PCIe card, to deliver dedicated cryptographic processing and key management capabilities for application servers, SSL web servers and security appliances.

**nShield Edge** – A revolutionary, portable, USB-attached HSM providing a convenient form factor for offline root CAs, developer code signing, strong authentication/authorization and remote HSM management.

**Time Stamp Server** – A secure signing appliance for assuring data and document integrity and creating trusted digital records – financial transactions, legal documents, lottery records, notarizations, audit logs and more.

## Identity Management & PKI

Thales provides nShield HSMs to support a host of commercial identity management products that enable the provisioning and use of multiple strong authentication mechanisms, including one time password tokens, smart cards, PKI credentials and SMS messaging. By spanning multiple authentication and credential management technologies, Thales enables its customers to adopt security best practices in the context of a wide variety of identity management deployments.

*“Thales HSMs offered the capabilities, integration, and key management we needed. We made the right choice. Today, all our high-security solutions incorporate Thales.”*

**Ionut Florea,**  
Security Consultant,  
certSIGN





**nShield HSMs** – The use of hardware security modules is a widely recognized best practice for organizations deploying identity management systems, particularly those that involve authentication mechanisms that are stronger than traditional passwords. As stronger authentication techniques are employed the relative security of the systems used for issuing, managing and authenticating those credentials must be similarly increased.

Technologies such as PKI and smart card provisioning systems rely heavily on cryptography and benefit greatly from hardware grade, certified protection for key generation and digital signing processes. Thales has long-standing technology partnerships with all the leading players in the identity management market to give customers the option of maximizing security and better managing risk.

## ***Network Encryption***

Protect data in motion with Thales Datacryptor, a high-speed network encryption solution that secures data traversing networks – between data centers, to disaster recovery sites, or anywhere you exchange sensitive data.

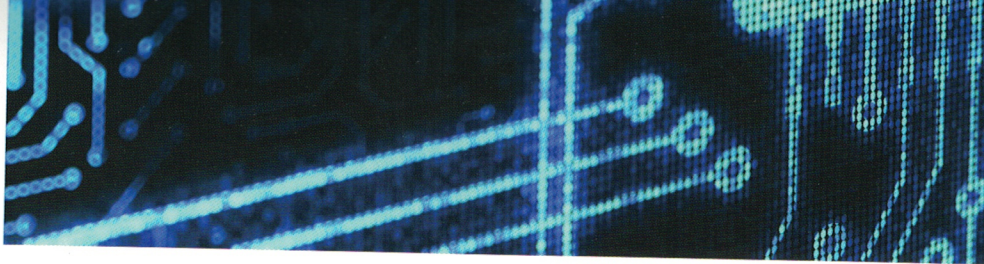
**Datacryptor** – Available as point-to-point Layer 1 and multipoint Layer 2 and Layer 3 encryptors, Datacryptor secures data with the strongest commercially available algorithms. Layer 2 models are specifically designed to meet the high security, high availability demands of lower-cost, higher-bandwidth Carrier Ethernet and MPLS environments. It maximizes network efficiency for 100MB, 1GB, and 10GB Ethernet, as well as for a full range of SONET/SDH networks. Thales Datacryptor is compatible with most routers and switches on the market today and can encrypt data that is sent native or compressed.

## ***Payment Security***

Thales payShield solutions secure retail and financial institutions, as well as some of the world's busiest clearing, settlement, and stock exchange systems. Our payment HSMs integrate with all of the widely used electronic payment and transaction processing applications.

**payShield 9000** – The latest generation of the world's first HSM specifically designed to provide cryptographic security for card-based ATM or POS payment transactions. payShield 9000 meets FIPS 140-2 Level 3 and the latest PCI HSM standards for both issuing and processing all types of magnetic stripe and chip cards (EMV).





*"We realized that we could buy an HSM that was similar to a Thales HSM or we could buy a Thales HSM. We decided to go with Thales rather than a supplier who might be playing catch-up with technology or that might not be around for the long term."*

**Greg Niemeyer,**  
Executive Vice President  
of Marketing &  
Operations,  
North Dallas Bank

**Remote HSM Manager** – Reduce the cost and complexity of managing a dispersed estate of HSMs from a single central location.

**Security Resource Manager**  
– Manage and control multiple Thales payment HSMs to optimize resilience and resource utilization. Designed specifically to support IBM mainframe and Tandem transaction processing platforms.

**payShield for Cardholder Authentication for nShield** – An option pack to enable cardholder authentication on nShield HSMs for authenticating and authorizing "card not present" transactions as part of eCommerce and home banking applications.

neutral approach to unifying mixed storage environments supporting key management industry standards. For storage vendors and consumers, TEMS provides a ready-to-use, turnkey system that reduces the risk of losing keys, enforces key management policies to demonstrate compliance, and automates many of the complex, costly and time consuming tasks of managing the complete key lifecycle. The bottom line: TEMS saves time and lowers total cost of ownership, while eliminating the need to maintain multiple key management systems across tape, disk and SAN infrastructures.

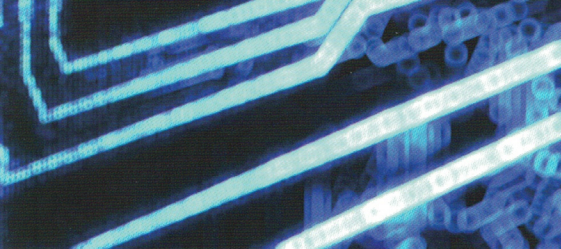
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## **Storage Encryption**

**Thales Encryption Manager for Storage (TEMS)** – This high-performance, enterprise-class, security-hardened appliance manages encryption keys on behalf of storage devices that include native encryption capabilities. The solution offers a vendor

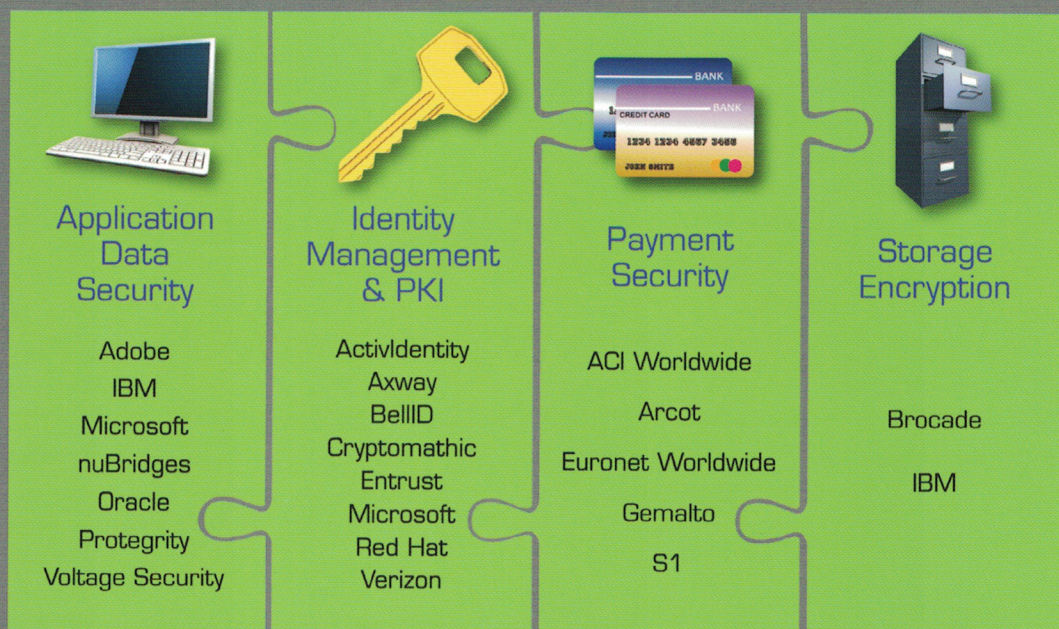






## Thales Solution Partners

Thales is proud to partner with global innovators whose software products and solutions are secured and enhanced by our robust and field-proven encryption and cryptographic security technologies. Here is just a small sample of our partners:



## Thales Professional Services

Thales understands that one size does not fit all. That's why the Thales Advanced Solutions Group (ASG) collaborates with customers as a trusted business partner from project start-up through implementation and beyond.

First, we work closely with you to understand your security policy and design a complete solution to meet your business goals. During development and implementation, Thales consultants ensure that your Thales-based solution has

been developed and deployed for optimal performance. Afterwards, Thales offers extensive training courses on all products – even customized training based on your organization's unique environment. Thales provides training at both customer sites and at Thales offices worldwide.

## How Can Thales Protect Your Sensitive Data?

Your data is at risk – in use, at rest, and in motion – every day. Thales solutions can be your best

defense by rendering your data useless if compromised and ensuring that your critical infrastructure is properly protected.

Contact us and learn how Thales can effectively and efficiently protect your organization and the sensitive data that you rely on – and that your customers expect you to protect.



## About Thales

Thales is a global technology leader for the Aerospace, Defense, Security and Transportation markets. In 2009, the company generated revenues of 12.9 billion Euros with 68,000 employees in 50 countries. With its 25,000 engineers and researchers, Thales has a unique capability to design, develop and deploy equipment, systems and services that meet the most complex security requirements. Thales has an exceptional international footprint, with operations around the world working with customers as local partners. [www.thalesgroup.com](http://www.thalesgroup.com).

## About Thales e-Security

Thales e-Security is a leading global provider of information security providing data encryption solutions to the financial services, manufacturing, government and technology sectors. With a 40-year unrivalled track record of protecting corporate and government information, Thales solutions protect our customers most sensitive data and is used by four of the five largest energy and aerospace companies, government networks around the world, and secures more than 80 percent of the worldwide payment transactions. Thales e-Security has offices in Japan, Hong Kong, United Kingdom and the United States and is represented in over 90 countries around the world. For more information, visit [www.thales-eseecurity.com](http://www.thales-eseecurity.com).

## Contact

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