

THALES HELPS FINANCIAL SERVICES ORGANIZATIONS IMPROVE THEIR DATA SECURITY AND COMPLIANCE POSTURES

- Safeguards customer records by rendering them unusable to attackers
- Simplifies compliance with PCI DSS and other data privacy mandates and regulations
- Protects the organization's reputation and revenue against long-term damage
- Secures the most sensitive keys and business processes in the organization in an independently-certified, tamper-resistant environment
- Encrypts sensitive data efficiently, with little to no performance impact

«Thales e-Security»

DATA PROTECTION SOLUTIONS FOR FINANCIAL SERVICES ENTERPRISES



Financial services organizations face unique challenges in their efforts to protect sensitive customer information in compliance with industry regulations and mandates. Adding complexity to this challenge, customer data can be found in a mix of systems and applications across the distributed enterprise – at rest, in use and in transit.

In response, financial services enterprises must implement stringent security controls that protect against threats and abuse, while safeguarding and processing sensitive customer data in a compliant manner - all of which can be administratively and financially burdensome.

One area that continues to evolve is payments. Whereas credit card transactions traditionally occurred by swiping or inserting the card in a POS terminal, the trend is now toward contactless and mobile app-based transactions. As consumers continue to seek convenience and security, and merchants and app developers construct new payment options, financial institutions must keep innovating in kind.

Financial institutions also continue to adopt new and emerging technologies such as cloud computing and containers which, while they offer potential efficiencies and cost reductions, expand the organization's digital footprint.

Significantly, financial enterprises are increasingly exploring the use of distributed ledger technologies, such as blockchain, to streamline transactions and reduce operational risk. These technologies represent significant new opportunities for enterprises, but security must be incorporated from the outset.

DATA PROTECTION SOLUTIONS FOR FINANCIAL SERVICES ENTERPRISES

Some of the risks facing enterprises include:

- Highly motivated adversaries seek to exploit vulnerabilities to extract valuable personally identifiable information (PII) and corporate IP
- Complying with PCI DSS and other data protection mandates requires time and administrative resources
- Administrative costs, penalties, reputational damage and increased regulatory scrutiny resulting from a data breach

THALES DATA PROTECTION SOLUTIONS FOR FINANCIAL SERVICES ENTERPRISES

Financial services organizations worldwide trust Thales to address their unique challenges. Our data protection solutions help enterprises reduce risk, demonstrate compliance and enhance agility while pursuing strategic goals around emerging payment and transaction technologies.

PAYMENT SECURITY

Thales has a broad range of hardware and software solutions that are designed specifically for payment applications and tightly integrated with leading off-the-shelf solutions from the major third party vendors. The Thales payShield 9000¹ is a proven hardware security module (HSM) that performs such tasks as PIN protection and validation, transaction processing, mobile and payment card issuance, and key management. The payShield 9000 delivers high assurance protection for automated teller machine (ATM) and point of sale (POS) credit and debit card transactions. Vormetric Tokenization with Dynamic Masking² lets administrators establish policies to return an entire field tokenized or dynamically mask parts of a field. With the solution's format-preserving tokenization capabilities, managers can restrict access to sensitive assets, yet at the same time, format the protected data in a way that enables many users to do their jobs.

Thales HSMs are also deployed as part of mobile point-of-sale³ and payment processing⁴ solutions with our industry partners, and help ensure compliance with various security requirements including PCI HSM, PCI PIN Security and PCI P2PE.

1. www.thalesecurity.com/products/payment-hsms/payshield-9000
2. www.thalesecurity.com/products/tokenization-data-masking
3. www.thalesecurity.com/solutions/use-case/payments/mpos
4. www.thalesecurity.com/solutions/use-case/payments/payment-processing
5. www.thalesecurity.com/products/data-encryption/vormetric-data-security-platform
6. www.thalesecurity.com/products/data-encryption/vormetric-transparent-encryption

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DATA-AT-REST ENCRYPTION

Thales solutions like Vormetric Data Security Platform⁵, Vormetric Transparent Encryption⁶ and Vormetric Application Encryption⁷ provide a single extensible framework for protecting data-at-rest under the diverse requirements of the banking and financial services industry across the broadest range of OS platforms, databases, cloud environments and big data implementations. This results in a low total cost of ownership, as well as simple, efficient deployment and operation.

Thales Datacryptor Series⁸ encrypts sensitive data traversing enterprise networks – across departments, facilities or regions – with little to no impact on network performance and bandwidth.

ENCRYPTION KEY PROTECTION & MANAGEMENT

Key management solutions from Thales offer hardware-based key protection solutions with Thales nShield HSMs⁹ and enable centralized management of encryption keys via Vormetric Key Management¹⁰ for other environments and devices including KMIP compatible hardware, Oracle and SQL Server TDE master keys and digital certificates.

CLOUD DATA PROTECTION

Thales e-Security provides cloud encryption¹¹ and key management¹² solutions that keep financial institutions in control of their data. Our partnerships with industry-leading IaaS, PaaS, SaaS and managed services providers mean we can support any cloud strategy - public, private or hybrid.

ESTABLISH THE ROOT OF TRUST FOR BLOCKCHAIN & DISTRIBUTED LEDGERS

nShield HSMs help financial services organizations protect and manage the cryptographic keys that underpin blockchain¹³ and other distributed ledger applications. nShield HSMs enable enterprises to design architectures that provide the high-assurance security required for distributed ledgers.

Contact your account representative today or visit www.thalesecurity.com to learn how we can help you improve your data security and compliance.

7. www.thalesecurity.com/products/data-encryption/vormetric-application-encryption
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13. go.thales-security.com/Delivering-Trust-to-Blockchain-Technology