



Thales

Meeting Compliance and Data Privacy Requirements

#FITforCOMPLIANCE



While organizations are creating, sharing and storing data at an unprecedented level, data protection mandates worldwide are becoming increasingly stringent.

Wherever you operate, Thales can help you improve your data security posture and become fit for compliance.

Notable data protection mandates impacting the Americas

- FDA/DEA – CSOS & EPCS
- FedRAMP
- FIPS 140-2
- FIPS 199 & 200
- FISMA
- GDPR
- SOX/GLBA
- HIPAA
- Mexico Data Protection Law
- NCUA
- NYDFS Cybersecurity Regulation
- PCI DSS
- NIST800-53
- PCI HSM
- 50 US State breach notification laws
- California Consumer Privacy Act
- Brazilian LGPD
- Canada PIPEDA



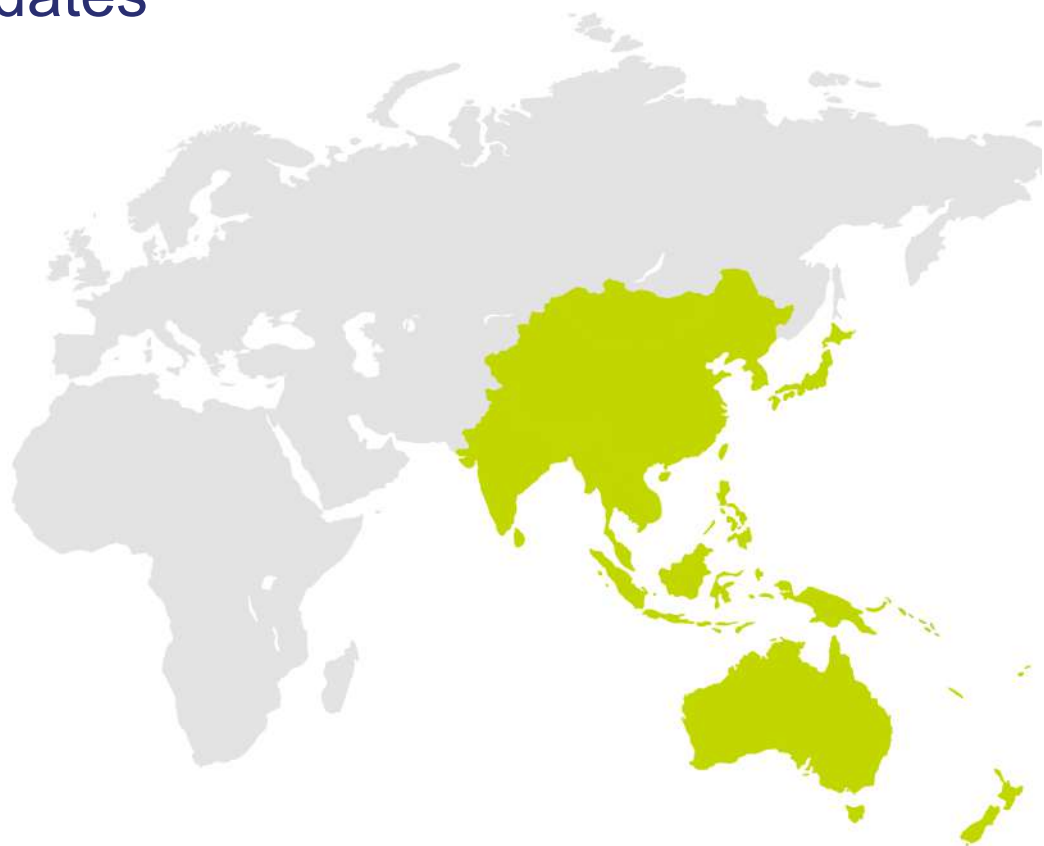
Notable data protection mandates impacting EMEA

- DEFCON 658
- eIDAS
- GDPR
- PCI DSS
- PCI HSM
- PSD2
- South Africa POPI Act



Notable data protection mandates impacting EMEA

- Australian Privacy Amendment
- Japan APPI / My Number Compliance
- Monetary Authority of Singapore
- GDPR
- PCI DSS
- PCI HSM
- Philippines Data Privacy Act of 2012
- South Korea's PIPA



Thales helps you meet common compliance and data privacy requirements ...



**Protection of
sensitive data
against
unauthorized
access**



**Audit logs and
reports for
data access and
data security
management
operations**



**Data encryption
anonymization
and tokenization**



**Secure, FIPS
certified central
encryption key
management**

... across traditional and next generation platforms



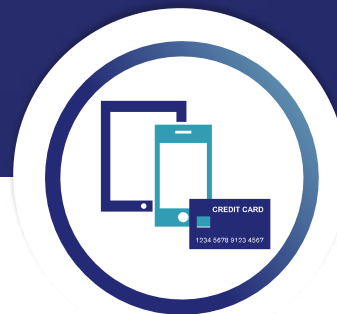
**Multicloud data
security**



**Secure sensitive
information in
Big Data
analytics**



**Container data
security**



**Card and
digital payment
security**

Thales solutions address key compliance requirements

Encryption of data



File, database and application-level encryption for data at rest



Network encryption for data in motion

Strong encryption key protection & management



Flexible, centralized, encryption key and policy management



On- or off-prem, hybrid, Big Data

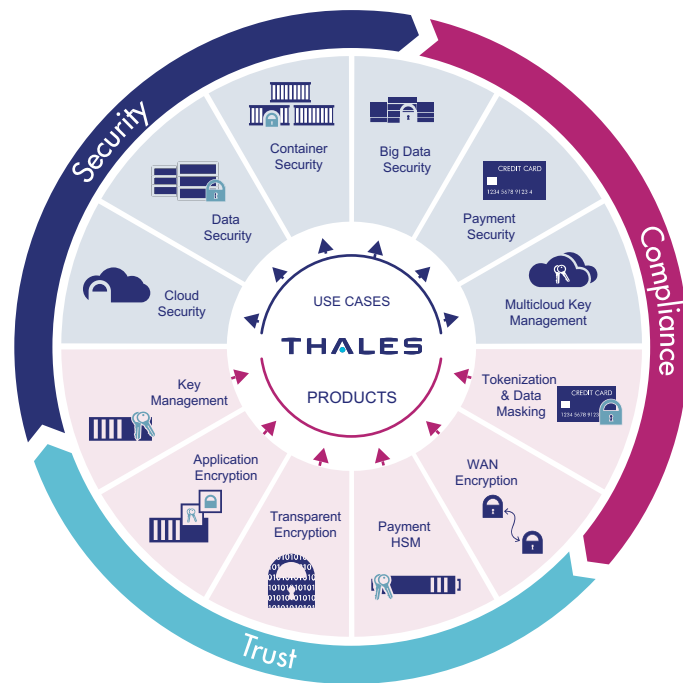
Control access and provide auditable evidence
















Privileged user access management and strong authentication limit access to personal data
















Logs capture all attempts to access sensitive data



Thales addresses key GDPR Requirements

Requirements	GDPR	Thales Supporting Capabilities
Pseudonymisation and Encryption	Article 25, 32	 Transparent File and Volume Encryption  Application Encryption  Tokenization  Multicloud Key Management  Multicloud Data Security
Breach notification (avoidance)	Article 3, 34	 Transparent File and Volume Encryption  Application Encryption  Tokenization  Multicloud Key Management  Multicloud Data Security
Data access controls	Article 5	 Policy-based Access Controls  User and Device Authentication
Evidence of Data access	Article 5	 Data Access Audit Logs

Thales addresses key PCI DSS Requirements

Requirements	PCI DSS	Thales Supporting Capabilities
Protect cardholder data	3.4, 3.5, 3.6	 Transparent File and Volume Encryption  Application Encryption  Tokenization  Multicloud Data Security  Enterprise Key Management
Encrypt data transmissions	4.1	 WAN Encryption
Restrict access to cardholder data	7.2	 Policy-based Access Controls  User and Device Authentication
Identify and authenticate access to system	8.1, 8.3, 8.7	 User and Device Authentication  Policy-based Access Controls  HSM-based Key Protection
Track access to cardholder data	10.1, 10.2, 10.3	 Data Access Audit Logs  Policy-based Access Controls

Thales addresses data breach notification laws

Requirements

Encrypt data and control access to protect against data breach notification requirements

Thales Supporting Capabilities



Transparent File and Volume Encryption
For databases, files, big data environments, containers, SAP HANA and loud environments



Application Encryption



Tokenization and data masking



Multicloud Key Management



Enterprise Encryption Key Management



Policy-based Access Controls



Multicloud Data Security

Thales addresses data residency requirements

Requirements

Thales Supporting Capabilities

Data encryption



Transparent File and Volume Encryption
For databases, files, big data environments, containers, SAP HANA and Ioud environments



Application Encryption



Tokenization and Data Masking



Multicloud Key Management



Multicloud Data Security

Encryption key protection



Enterprise Key Management



HSM-based Key Protection



Customer Control of Keys

Data access controls



Policy-based Access Controls



User and Device Authentication

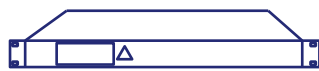
Data protection hardware



Vormetric Data Security Manager



payShield
Payment HSM



Datacryptor 5000
Multi-layer network encryption

Data protection software



Vormetric Transparent Encryption

File and database encryption, access control and data access logging across systems, big data, containers, SAP HANA and more



CipherTrust Cloud Key Manager

Multicloud Key Management
On-premises or in the Cloud



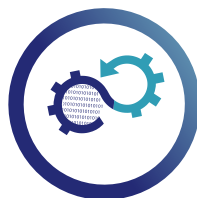
Vormetric Application Encryption

Easily incorporate encryption into applications with standards-based APIs and interfaces.



Vormetric Tokenization with Dynamic Data Masking

Format-preserving tokenization to protect sensitive fields in databases and policy-based dynamic data masking for display security.



Vormetric Batch Data Transformation

Quickly encrypt, tokenize or mask large data sets in databases or files



Vormetric Enterprise Key Management

Manages and secures encryption keys for database TDE encryption and KMIP compatible devices or environments.




Vormetric Orchestrator

Automates deployment, configuration, management and monitoring of Vormetric Data Security Platform solutions

For more information on how Thales can help you meet your compliance and security needs, contact:

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