

Leading Financial Security Group in Asia Pacific Achieves Digital Transformation and Compliance with Thales

Thales solutions help group address main business challenges

Summary

A leading financial security group in the Asia Pacific deploys highly-scalable Thales solutions for data-at-rest protection, as well as protections for distributed data and key management in different environments; all while providing a model to achieve local regulatory compliance wherever they operate.

The Organization

The group is known as one of the top financial security groups in Asia Pacific. It has built an Asia-led portfolio of businesses focused on structural growth markets to help their customers through life and health insurance solutions. The group maintains a strong presence in the Asia Pacific with millions of customers across several countries such as Singapore, Hong Kong, Indonesia, South Korea, Japan, and Vietnam.

Currently, the group is benefitting from Thales solutions deployed across over 40 different sites globally.

The Business Need

Digital transformation is driving the group's business needs, in order to take advantage of the cloud in their data analytics, business applications, and infrastructure. The group requires solutions that are highly scalable, work in a hybrid and multi-cloud environment, and to provide data protection and key management across different environments.

It is also imperative for the group to provide a safe passage to customers to achieve regulatory compliance while moving their data to the cloud, achieving a shared responsibility model.

The mandatory compliance regulations include the following:

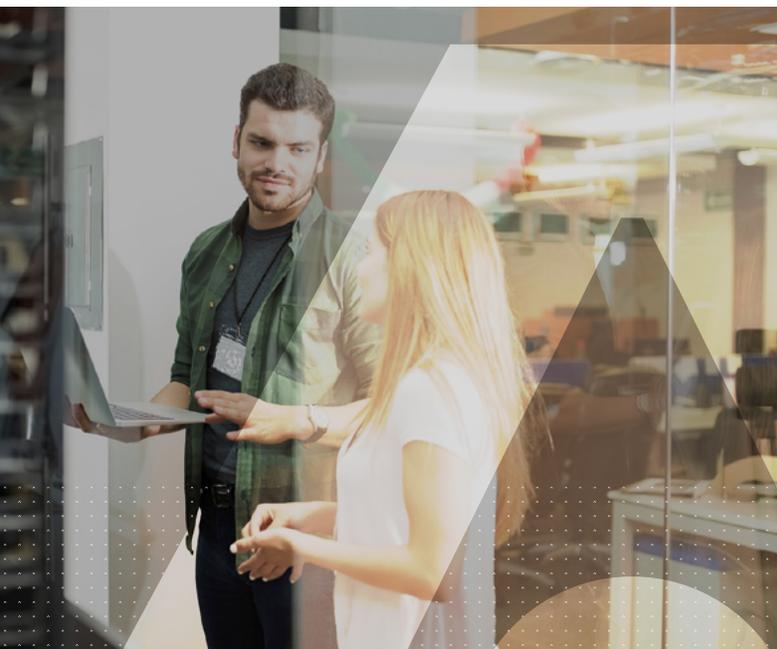
- Personal Data Protection Act (PDPA)
- Health Insurance Portability and Accountability Act (HIPAA)
- Payment Card Industry Data Security Standard (PCI DSS)
- General Data Protection Regulation (GDPR EU)

Challenge

As a part of the financial sector, the group deals with a large volume of personal, health, and financial data. As an insurer, the group's legal responsibility to protect all customer data from any breaches while achieving compliance to deal with critical audit challenges. Any non-compliant to local data privacy law in the countries they operate in will face serious consequences. For instance, according to the PCI Security Standards Council, non-compliant groups may suffer from immense legal costs and settlements, as well as diminished sales.

Thales operates in many countries and is in a strategic position to advise customers in the different local privacy laws.

Thales was selected as the group's first and only vendor to enhance their existing infrastructure by providing tools for data protection at rest, and ensuring that the keys to that data are securely generated, stored and managed in hardware root of trust.



Solution

Thales recognized the group business challenges with regard to digital transformation and compliance and recommended the following solutions to enhance the group's security infrastructure by providing the necessary tools for data protection at rest.

Meeting compliance requirements

Securing data is imperative given the vulnerable nature of personal data and how it's being used, stored, and handled. To protect data and regulations such as HIPAA, GDPR, and PCI-DSS have been put in place to address data security concerns and privacy regulations.

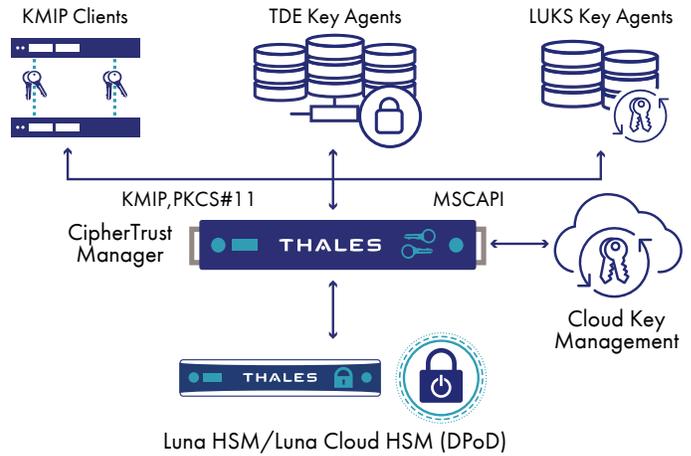
In order to achieve their goals, the group has undertaken a phased approach. The most immediate Phase 1 is to achieve compliance, the customer selected Thales Data Protection on Demand Luna Cloud HSM services and CipherTrust Manager to help the group meet its needs for data security compliance with proven **FIPS 140-2 Level 3** certified cryptographic solutions.

- [Thales Data Protection on Demand](#) is a cloud-based platform that provides a wide range of Luna Cloud HSM and CipherTrust Key Management services through a simple online marketplace. With Data Protection on Demand (DPoD), security is made simpler, more cost-effective, and easier to manage because there is no hardware to buy, deploy and maintain. Simply deploy the protection you need, provision services, add security policies and get usage reporting in minutes. DPoD provides a wide range of cloud-based Luna HSM services to allowing the customer to store and manage cryptographic keys used for data encryption in the cloud, while retaining complete control of their keys for a wide variety of use cases and integrations across environments. Luna HSMs securely manage, process, and store crypto keys and functions inside a hardened, tamper-resistant, FIPS 140-2 validated appliances available as hardware on-premise, or in the cloud and across hybrid environments.
- [CipherTrust Manager](#) offers the industry-leading enterprise key management solution enabling organizations to centrally manage encryption keys, provide granular access control and configure security policies. CipherTrust Manager is the central management point for the CipherTrust Data Security Platform. It manages key lifecycle task, including generation, rotation,

destruction, import, and export, provides role-based access control to keys and policies supports robust auditing and reporting, and offers developer-friendly REST API.

CipherTrust Manager is available in both virtual and physical appliances that integrate with FIPS 140-2 Level 3 compliant Thales Luna HSMs (on-premises, as a service in the cloud through DPoD, or together across hybrid environments) or third-party Hardware Security Modules (HSMs) for securely storing keys with a highest root of trust.

CipherTrust Enterprise Key Management



Vaultless Tokenization to move data safely from on-premises to cloud infrastructure

In Phase 2, Thales recommended **Vaultless Tokenization** to move data safely from on-premise to cloud infrastructure.

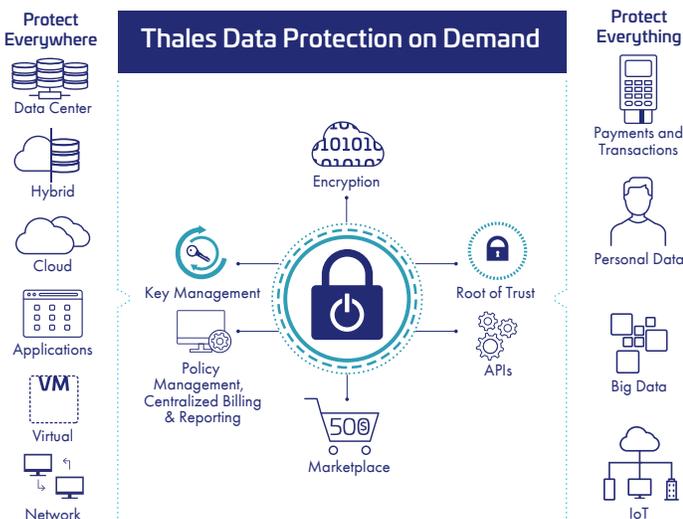
Tokenization reduces the cost and effort required to comply with security policies and regulatory mandates such as the European Union's Global Data Protection Regulation (GDPR) and the Payment Card Industry Data Security Standard (PCI-DSS).

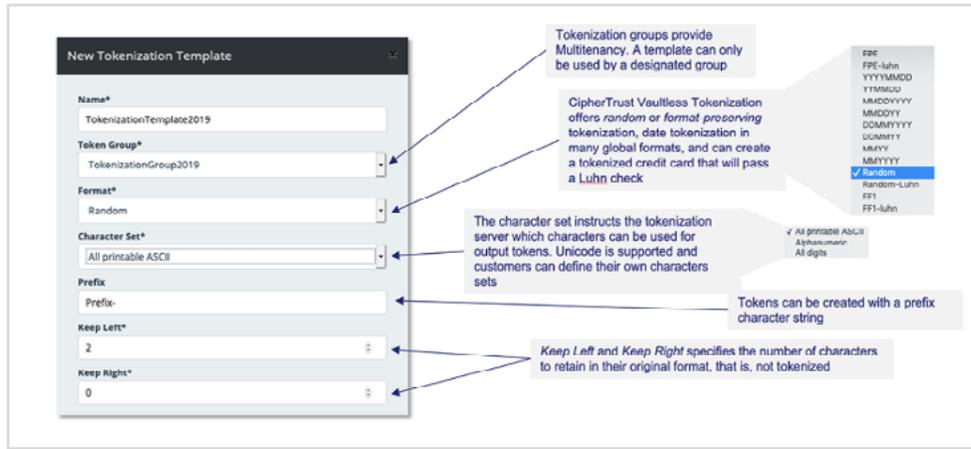
- [CipherTrust Tokenization](#) offers application-level tokenization services in two convenient solutions that deliver complete customer flexibility: Vaultless Tokenization with Dynamic Data Masking and Vaulted Tokenization. Both solutions secure and anonymize sensitive assets—whether they reside in the data center, big data environments, or the cloud.

Bring Your Own Key (BYOK)

Thales deployed the **Ciphertrust Cloud Key Manager (CCKM)** for the group to leverage a BYOK approach with the public cloud solution provider's key vault. The group's main objective of deploying Thales CCKM was to ensure the ownership of the cryptographic keys instead of wholly generated and stored cryptographic keys generated by the public cloud solution provider for data stored in the cloud and data used in collaborative applications. This solution enables the group to fulfill strong keys management practices while meeting stringent audit and compliance.

After a two-year BYOK deployment, the group has since moved from Bring Your Own Keys (BYOE) to **Bring Your Own Encryption (BYOE)**, the highest level of protection in cloud security.



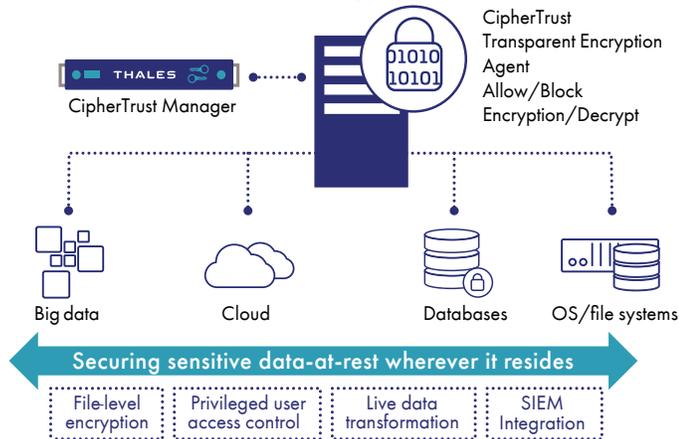


Vaultless Tokenization offers centralized configuration for a clear separation of duties.

Database encryption amid changing environments

Safeguarding sensitive data requires much more than just securing a data center's on-premises databases and files. Along with deploying [CipherTrust Manager](#), we recommend [CipherTrust Transparent Encryption](#) to support the group's digital transformation journey while securing their large volume of personal, health, and financial data.

CipherTrust Transparent Encryption



- [CipherTrust Transparent Encryption](#) delivers data-at-rest encryption with centralized key management, privileged user access control, and detailed data access audit logging that helps organizations meet compliance and best practice requirements for protecting data, wherever it resides.

CipherTrust Transparent Encryption additionally allows organizations to meet compliance and best practices requirements for encryption, access control, and data access logging using a proven hardware-accelerated encryption solution that secures files, volumes, and linked cloud storage while enabling access control and data access audit logging in physical, virtual, and cloud environments.

Benefits

Strengthen Security and Compliance

Thales data protection products and solutions address the demands of a range of security and privacy mandates, including the electronic IDentification, Authentication and Trust Services (eIDAS) regulation, Payment Card Industry Data Security Standard (PCI DSS), the General Data Protection Regulation (GDPR), the Health Insurance Portability and Accountability Act (HIPAA), the Federal Information Security Management Act (FISMA) and regional data protection and privacy laws.

Optimize Staff and Resource Efficiency

Thales delivers the broadest support of data security use cases in the industry with products designed to work together, a single line to global support, a proven track record protecting from evolving threats, and the largest ecosystem of data security partnerships in the industry. At Thales, we are hyper-focused on ease of use, APIs for automation and responsive management to assure your teams can quickly deploy, secure, and monitor the protection of your business. In addition, our Professional Services and partners are available for design, implementation, and training assistance to assure fast and reliable implementations with the least amount of your staff's time.

Reduce Total Cost of Ownership

The Thales data protection portfolio delivers a comprehensive set of data security products and solutions that easily scale, expand into new use cases, and have a proven track record of securing new and traditional technologies. With Thales, you can future proof your investments while reducing operational costs and capital expenditures.

About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing number of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.