THALES

Building a future we can all trust

Thales helps automotive manufacturer benefit from the full power of Microsoft 365 collaboration and productivity tools

Microsoft DKE together with Thales Luna Key Broker for Microsoft DKE protect sensitive data and meets data privacy regulations and requirements for this manufacturer with a cloud-first strategy.

The Organization

The European-based organization provides software development and IT services for its parent company, an automotive manufacturer. As part of the data processing, hosting, and related services industry, the company serves millions of users every day, leveraging decades of expertise in the IT and automotive trade, with a holistic vision for digital transformation within the industry.

Business need

The organization manages a large amount of sensitive customer data, as well as highly confidential information used by the C-Suite (mergers and acquisitions, etc.) of the parent company. The company is forward thinking, with a cloud-first approach. In addition, it is a complete Microsoft environment and the security and IT teams preferred to select a Microsoft solution. Because GDPR requires enhancements to their data protection practices, implementing

Challenge

While implementing Microsoft Double Key Encryption (DKE), a software and IT service provider needed a solution to manage company-controlled key outside of Microsoft Azure.
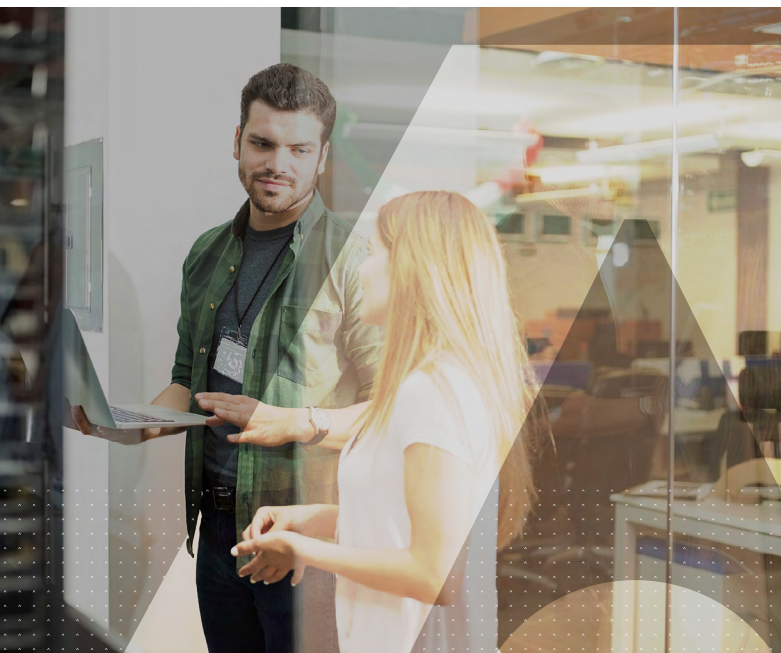
Solution

Luna Key Broker for Microsoft DKE, leveraging Luna Cloud HSM on the Thales Data Protection on Demand (DPoD) platform as the root of trust.

Business Impact

The company maintains full control and ownership of encryption keys outside of Azure, to leverage the benefits of Microsoft DKE, and comply with increasing needs for compliance and audit requirements.

Microsoft Double Key Encryption (DKE) to protect their most valuable information was a logical choice. Not only does it align with the company's IT policies, but also meets the regulatory challenges.

However, the organization needed a solution to manage its company-controlled key outside of Microsoft Azure. Microsoft DKE together with Thales Luna Key Broker for Microsoft DKE protect sensitive data with two keys. The first key remains in the customer's control in a FIPS 140-2 Level 3 validated Thales Luna Cloud HSM, with a second key stored securely in Microsoft Azure. Both keys are required to access protected data, ensuring Microsoft and other third parties never have access to the protected data on their own. As both keys are necessary to access the clear text content, organizations do not need to worry about third-party access as they are always in control of one of the keys.
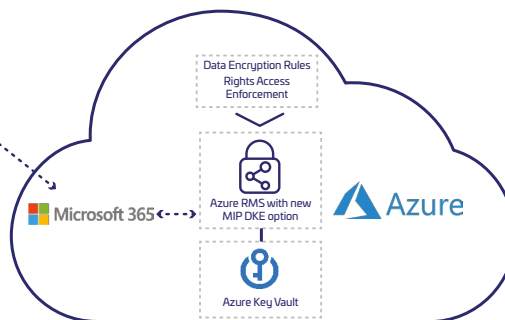
The Solution

The organization's security team selected the Luna Key Broker for Microsoft DKE, leveraging Luna Cloud HSM on the Thales Data Protection on Demand (DPoD) platform as the root of trust, to protect their most sensitive data and maintain full control and ownership of encryption keys outside of Azure cloud. With Luna Cloud HSM and the Luna Key Broker for Microsoft DKE, the company now has a secure root of trust that serves as a trustworthy environment for their DKE keys, as well as the ability to generate and manage encryption keys according to its own security policies.
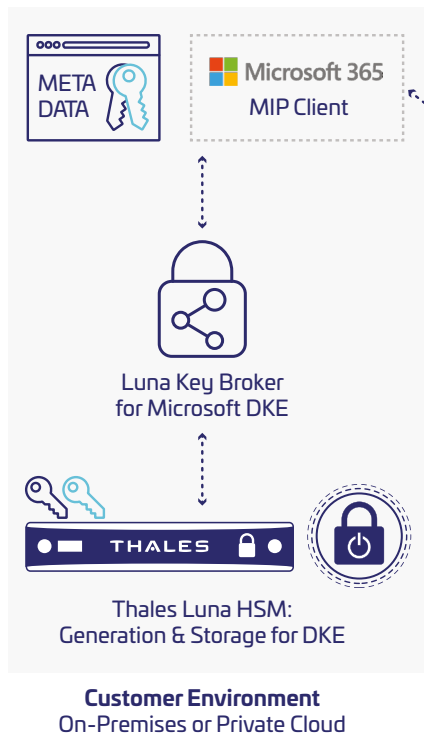
The security and IT teams recognized using the Luna Cloud HSM within DPoD as an opportunity to address not only protection of highly sensitive data, but also their GDPR and Schrems II concerns quickly, easily, and inexpensively, without needing to deploy hardware within their data centers.

Luna Key Broker for Microsoft DKE can be deployed either in the cloud, on-premises or in hybrid environments. The solution works with Luna Network HSMs and Luna Cloud HSMs enabling the organization the flexibility to secure hybrid deployments too.

META DATA
Microsoft 365 MIP Client

Data Encryption Rules
Rights Access Enforcement

Microsoft 365

Azure RMS with new MIP DKE option

Azure

Azure Key Vault

Luna Key Broker for Microsoft DKE

Thales Luna HSM: Generation & Storage for DKE

Customer Environment
On-Premises or Private Cloud

Customer's Key in Azure

Customer's Key in Double Key Encryption (DKE) Service

Implementation

After implementing the Thales solution with ease, the team was impressed how quickly they were up and running with a solution that met their security needs, while matching their budget. With DPoD, there is no equipment to purchase and no upfront investment, so businesses with limited budgets enjoy the convenience of a cloud service, without compromising on security, and this suited their cloud-first approach. Luna Cloud HSM on DPoD and the Luna Key Broker for Microsoft DKE allow the company to maintain full control and ownership of encryption keys outside of Azure, to leverage the benefits of Microsoft DKE, and comply with increasing needs for compliance and audit requirements.

Benefits

Thales Luna HSM is the only brand offered as an on-premises hardware solution, as a cloud HSM on the DPoD platform, or as a hybrid of both, giving organization a true choice in deployment models. In addition, Thales solutions work seamlessly with Microsoft

DKE, and hundreds of other applications. DPoD better suited the company's needs, providing the security they need, with no hardware to manage.

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.

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