

CipherTrust Cloud Key Manager for SAP Applications

Providing Bring Your Own Key 'BYOK' & Cloud-native Key Management



The Business Challenge

As enterprise data and workloads continue to migrate to the cloud, the need to keep sensitive data secure continues to grow. In a recent IDC Data Threat Report study, 50% of all corporate data is stored in the cloud of which 48% of that data is considered sensitive. With a significant footprint across the large enterprise community, SAP figures meaningfully in cloud migration discussions – both for the volume of customers that trust SAP applications and for the type of sensitive data they use.

While Cloud Service Providers (CSPs) offer encryption and other data protection schemes to support cloud migration efforts, best practices, regulations, and government policies are increasingly requiring a level of sovereignty in data protection. Ultimately, organizations must keep control of their keys separate from the data they secure. CSPs address these customer requirements through various Bring Your Own Keys (BYOK) design architectures that enable the companies owning the workloads to control their encryption keys and their workloads.

The separation of data from encryption keys provides the sovereignty they need to ensure that their data can remain securely within the confines of a specific geography and that their sensitive data in the cloud is useless even if it is accessed by unauthorized users.

In addition to this, the flexibility and benefits of a multi-cloud deployment also increase the complexity of managing encryption keys across the enterprise's workloads. Managing the lifecycle of both BYOK keys kept within the enterprise, and cloud-native keys kept in the CSP environment is complicated and time-consuming. Silos of cloud encryption keys can negatively impact IT efficiencies and complicates the reporting needed to establish regulatory compliance.

When taken all together, these challenges can present serious obstacles to customers moving their SAP investments into cloud environments. Fortunately, SAP and Thales are working together to address these challenges for our customers.

The Solution

Thales and SAP now offer external, multi-cloud key lifecycle management for SAP applications. With the integration between SAP's Data Custodian and Thales' CipherTrust Cloud Key Manager, organizations can seamlessly manage the encryption key life cycle of SAP applications from the same pane of glass as their other cloud encryption implementations. The SAP Data Custodian offers integrated visibility and security functionality in addition to key management to secure cloud-based SAP data. By adding CipherTrust Cloud Key Manager, highly-regulated customers can externally root their encryption keys in a purpose-built hardware appliance, or generate their own encryption keys to be used by their SAP applications.

Features and Benefits

- Generate encryption keys with HSM based entropy and bring them to your SAP applications
- Gain higher IT efficiency with centralized key lifecycle management across multiple cloud environments
- Comply with the most stringent data protection and sovereignty mandates with encryption and key management
- Simplified compliance reporting with detailed audit logs and prepackaged reports
- Root keys in up to FIPS 140 Level 3 security by leveraging CipherTrust Manager or Thales Luna HSMs

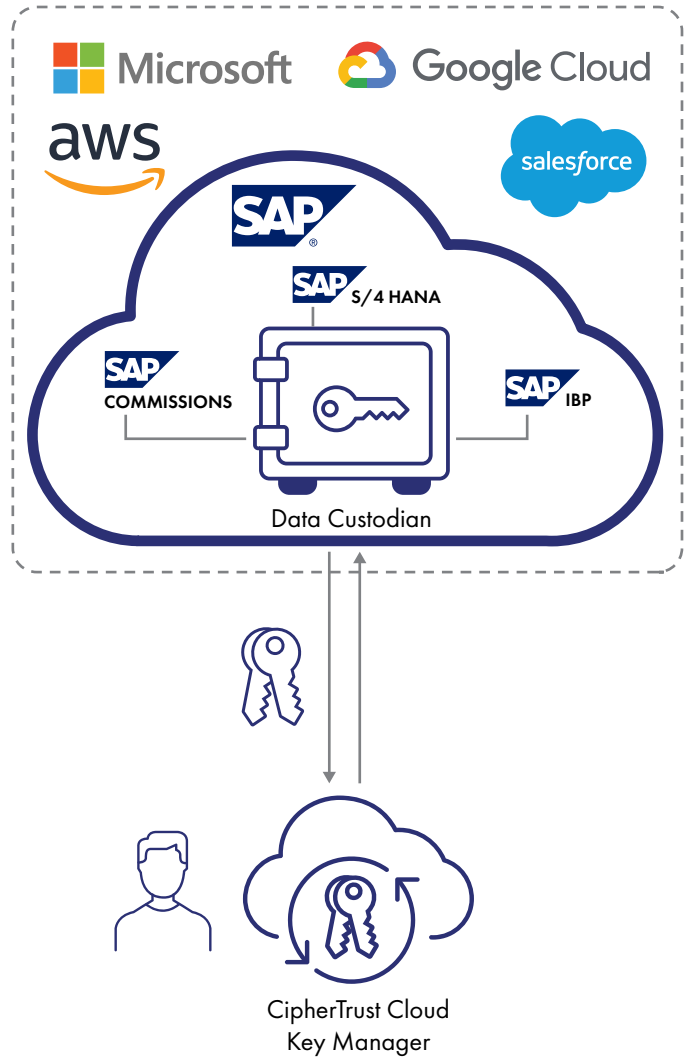
In Summary

Whether they choose to take advantage of SAP's native security functionality or bring their own keys to the encryption conversation, CipherTrust Cloud Key Manager simplifies ongoing administration and eases the burden of demonstrating regulatory compliance. Together, SAP and Thales make it easy to demonstrate data sovereignty through encryption key control and key lifecycle management via an intuitive 'single pane of glass.'

About Thales Trusted Cyber Technologies

Thales Trusted Cyber Technologies, a business area of Thales Defense & Security, Inc., is a trusted, U.S. provider of cybersecurity solutions dedicated to U.S. Government. We protect the government's most vital data from the core to the cloud to the edge with a unified approach to data protection. Our solutions reduce the risks associated with the most critical attack vectors and address the government's most stringent encryption, key management, and access control requirements.

For more information, visit www.thalestct.com



About SAP

Headquartered in Waldorf, Germany, SAP is the world's largest inter-enterprise software company, and the world's third-largest independent software supplier overall. SAP employs over 28,909 people in more than 50 countries. Their professionals are dedicated to providing high-level customer support and services. For more information, visit www.sap.com.