

CipherTrust Cloud Key Manager for SAP Applications in Google Cloud Platform Providing Bring Your Own Key 'BYOK' and Cloud-native Key Management



The Business Challenge

As enterprise data and workloads continue to migrate to the Google Cloud Platform (GCP), 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 GCP migration discussions – both for the volume of customers that trust SAP applications and for the type of sensitive data they use.

While GCP offers encryption and other data protection schemes to support 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. Google and SAP address these 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 GCP 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 GCP is complicated and time-consuming. Silos of cloud encryption keys makes IT administration more difficult 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 GCP. 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 on GCP 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 GCP-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 on GCP
- Make encryption administration easier 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 140-2 Level 3 security by leveraging CipherTrust Manager or Thales Luna HSMs

In Summary

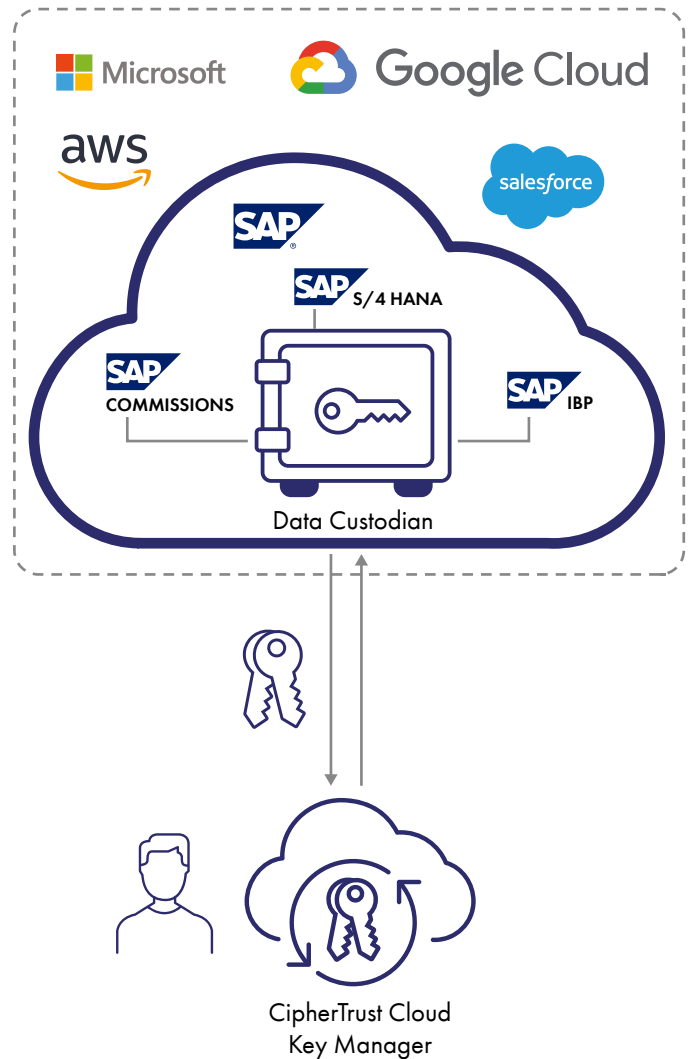
Whether they choose to take advantage of SAP's native security functionality or bring their own keys to the encryption conversation, CipherTrust Cloud Key Manager simplifies ongoing administration and eases the burden of demonstrating regulatory compliance.

Together, SAP and Thales make it easy to demonstrate data sovereignty for SAP workloads on GCP through encryption key control and key lifecycle management via an intuitive 'single pane of glass.'

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.



About SAP

Headquartered in Walldorf, 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.