

Ensure True Privacy by Hosting Your Own Google Cloud Encryption Keys

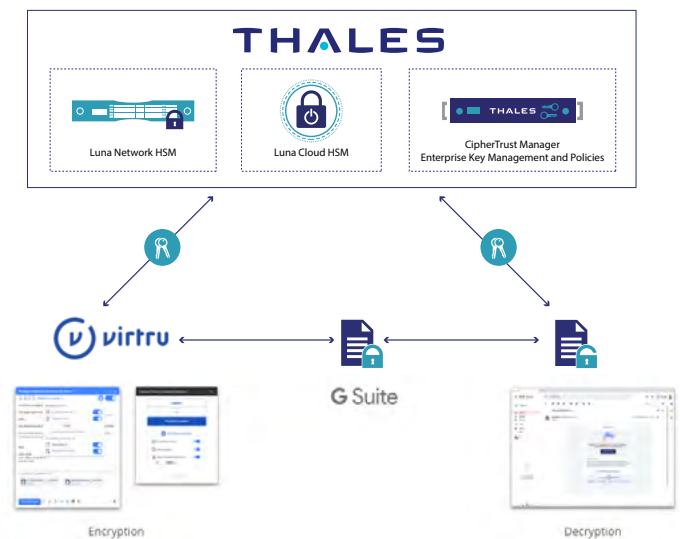


Achieve Zero-Trust Gmail and Google Drive security by integrating Thales' enterprise key management and hardware key storage with Virtru's seamless interface for end-to-end email and file protection.

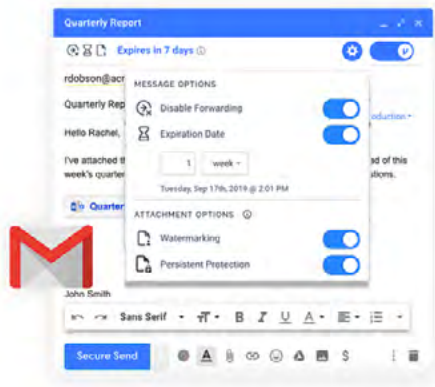
Thales and Virtru Tailor HSM Key Management for G Suite Enterprises

When migrating to the cloud, many organizations want to ensure their data is secure – often with cryptography – without disrupting their ability to freely share, audit, and access information. While many cloud service providers intend to strike this balance, most of them force you to choose between giving up full control of your encryption key or losing control of where data travels and how it is consumed.

Thales' and Virtru's data protection solutions eliminate these compromises by allowing organizations to host their own keys – on-premises or in the cloud – without relinquishing control to third party providers or disrupting Gmail and Google Drive data sharing workflows. Organizations can leverage Thales' enterprise key manager or hardware security modules (HSM) to store and manage the keys used to facilitate the encryption, authentication, authorization, and consumption of data protected by Virtru's client-side G Suite endpoints. Keys remain under your full control, as do the emails and files they secure, facilitating Zero-Trust privacy and granular audit throughout the full data lifecycle.



Encrypt G Suite and Gmail data while maintaining full key ownership



Control message security directly from the Gmail taskbar

Three Options to Secure and Manage Your Keys

- **Thales Luna Network Hardware Security Modules (HSM)**

Thales Luna Network HSMs are purpose built hardware appliances that store cryptographic materials in a trusted manner. Luna HSMs protect the entire encryption key lifecycle within the tamper-resistant, FIPS 140-2 Level 3 validated confines of the appliance. Thales' unique approach to protecting cryptographic keys in hardware makes these appliances the most trusted general purpose HSMs on the market, and ensures that encryption keys always benefit from both physical and logical protections.

- **Thales Cloud HSM Service.**

Thales Cloud HSM Service is a cloud-native hosted service based on Luna Network HSM technology. Organizations can now deploy key storage more simply, and more cost effectively without any hardware to buy, deploy and maintain. Though a hosted service, customers have sole access to their keys allowing them to maintain full control, in hardware confines, without anyone else having access.

- **CipherTrust Key Manager (CTM).**

CipherTrust Key Manager is a centralized platform for managing cryptographic content (keys and related data) and applications that is capable of running on-premises, in the cloud or hybrid environments. Available as a physical or virtual appliance, customers can choose from flexible options spanning FIPS 140-2 Level 1 or 3 versions. With CTM, customers can manage their Virtru encryption keys along with a wide variety of keys for other third-party encryption solutions, or with the rest of the Thales encryption portfolio. Using CTM, organizations can easily fit Virtru into their larger security strategy without having to worry about additional administrative overhead.

Trusted Customer-Controlled Key Management for Maximum Privacy and Data Access Control

Zero-Trust Cloud Security

Split knowledge architecture separates keys from content, while seamless HSM key storage or enterprise key management adds an extra layer of customer-controlled security. You're never forced to trust Thales, Virtru, Google, or a cloud service provider with access to your data.

End-to-End Encryption and Persistent Control

Protect Gmail and Drive with end-to-end encryption that prevents unauthorized access to data stored in Google Cloud and shared outside of your ecosystem. Disable forwarding, set expiration, and revoke access. Watermark files to deter leaks, and maintain persistent control wherever files are shared.

Granular Audit Trails

View when and where sensitive emails and files have been accessed throughout digital sharing workflows, and adapt controls for evolving privacy & compliance requirements. Thales HSMs and CTM securely log access to encryption keys and key state changes for comprehensive oversight that allows you to demonstrate data control and regulatory compliance.

Cloud Data Protection Built for Global Organizations

Data Residency and Compliance

Meet data protection and residency requirements for sharing data in the cloud by choosing where the keys protecting that data are stored. Additionally, Thales CTM's and HSMs' FIPS 140-2 Level 3 validation facilitates organizational compliance with such mandates as PCI DSS and HIPAA.

True Cloud Privacy

Host your own keys in the cloud with Thales' cloud-based HSM offerings so that unauthorized parties can never access your Google Cloud data, ensuring it stays private as you adopt cloud-first strategies. Available as either a cloud-based HSM as a Service or a CSP hosted appliance, you can choose the option that best fits your architecture and operational model.

Government Surveillance Protection

Avoid blind subpoenas that force security and cloud vendors to give governments your data without authorization. By controlling your own encryption keys, cloud service providers will never have the capacity to turn over your data to third parties in a readable state. With Thales and Virtru, only you can respond to government data requests.

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 Virtru

At Virtru, we empower organizations to unlock the power of data while maintaining control. Our portfolio of privacy technologies governs data throughout its lifecycle.

Learn how Thales and Virtru simplify HSM key management in Google Cloud by contacting us today.