ZOOM | **THALES**
Building a future we can all trust

CipherTrust Cloud Key Management for Zoom

Enhanced sovereign control of encryption keys to meet data security and compliance

The Challenge

The pandemic drove new hybrid working environments, increased the number of employees working remotely and expanded the need for modern collaboration tools from the likes of Zoom communications. Customers are using Zoom not just for virtual meetings, but also for daily interactions (voice, chat, online whiteboards, webinars, meeting transcripts, etc.). This has led to an increasing amount of new sensitive data generated daily, much of which is stored in the cloud. This is particularly a challenge for enterprises working in highly regulated industry verticals. Especially after the ruling of the SCHREMS II judgement, companies are looking for a more comprehensive solution to address data sovereignty.

Data sovereignty mandates enterprises to maintain control over their customer data. Leveraging encryption and stronger access controls restricts data from foreign and unauthorized entities, in adherence to regulations. The underlying encryption keys should be controlled and managed by the enterprise themselves, separately from the cloud provider. Data sovereignty maximizes the ability for enterprises to benefit from the cloud by balancing opportunities and risks, and achieve desired business, technical and trust outcomes.

The Solution

To address the complex set of data compliance regulations, Thales and Zoom have partnered to deliver a simplified integration, providing enterprise customers with choices in managing their data encryption keys in multi-cloud environments.

Zoom has implemented a Customer Managed Key (CMK) service that allows users to provide and manage their own encryption keys that protect their Zoom content such as cloud recordings, voicemails, webinars, and calendar access tokens. This allows for encryption of applicable content stored in the Zoom Cloud using the keys that the organization controls.

Combining this CMK feature with Thales CipherTrust Cloud Key Management (CCKM), Zoom customers can store these encryption keys outside of the cloud, under their control located within their sovereign boundary. The solution leverages the AWS External Key Store (XKS) service, which together with Thales CCKM, allows customers to protect their Zoom data using encryption keys stored physically outside the cloud. A combination of AWS XKS with Zoom CMK allows customers to store their encryption keys in their own control leveraging Thales CCKM solution.

Thales CCKM Integration with Zoom CMK and AWS XKS
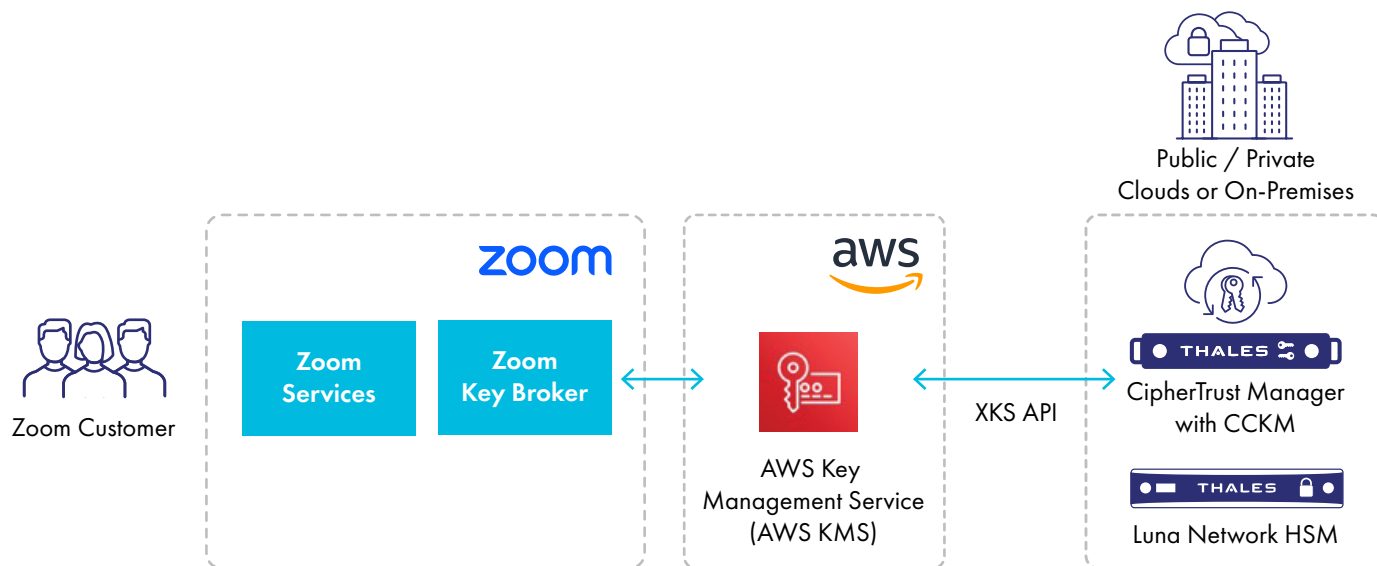
Gain Strong Key Control and Security

Zoom CMK enables customers to separate key management from content stored in the cloud, offering a crucial layer of separation of duty and control. Thales CCKM delivers key generation, reporting, and key lifecycle management that helps fulfill internal and industry data protection mandates with optional FIPS 140-2 Level-3 certified hardware security modules.

Meet Organizational Needs with Flexible Deployment Options

Thales CCKM is available in virtual and physical form factors: Virtual CCKM is an all-software offering easily deployed and can be run in the cloud or on-premises and may be found in several cloud provider marketplaces for fast instantiation. Deployment environments include public cloud, private cloud, hybrid cloud, and physical appliances. Physical appliances are available for customers who prefer an on-prem solution. Regardless of how and where CCKM is deployed, CCKM can manage keys, as well as access to the keys, in any reachable, supported cloud.

Increase Efficiency

Thales CCKM centralizes encryption key management across all supported clouds, and multiple cloud accounts, regions, subscriptions and projects, from a single pane of glass. Advanced cloud key management services and capabilities include automated key rotation, key expiration handling, and cloud key vault synchronization--dramatically reducing the time required for cloud key life cycle management.

Align with Best Practices

Together, Thales and Zoom deliver compliance, best security practices (such as CSA CCM EKM-04) and control of customer data by separating encryption key control from data encryption and decryption operations. Gain operational insights on encryption key usage with reports and logs provided by Thales CCKM.

About Zoom

Zoom is for you. We help you express ideas, connect to others, and build toward a future limited only by your imagination. Our frictionless communications platform is the only one that started with video as its foundation, and we have set the standard for innovation ever since. That is why we are an intuitive, scalable, and secure choice for large enterprises, small businesses, and individuals alike. Founded in 2011, Zoom is publicly traded (NASDAQ:ZM) and headquartered in San Jose, California.

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.