

# Thales Luna HSM Hybrid Solutions

Flexible HSM deployment options in the cloud, on-premises or across hybrid environments.

[cpl.thalesgroup.com](https://cpl.thalesgroup.com)

**As your organization embraces digital transformation, you need the flexibility to choose the right solutions to meet your business needs across on-premises, multi-cloud or hybrid environments, without being tied to a particular platform, solution or vendor. Furthermore, your solution of choice must provide the utmost security, enabling you to focus on your core competencies. However, traditionally security is complicated and made even more complex when hybrid environments are involved.**

Businesses like yours are seeking solutions that allow you to easily secure data and the keys to that data. Compromised keys can lead to unauthorized access or even theft, putting you in breach of compliance regulations, and making you accountable to your customers, partners and employees.

Thales Luna HSMs provide you with flexible deployment options that are simple, agile and easy to implement and manage across different environments, including hybrid multi-clouds, ensuring you are in control of your data security and meeting regulatory compliance.

## Innovative hybrid HSM solutions

Thales Luna HSMs can easily be deployed on-premises, in the cloud, as a service, or across multiple environments to create a purpose-built hybrid HSM solution. Thales Luna HSMs have led the market for more than 25 years, and are the foundation of digital trust for traditional and emerging technologies across all environments.

Luna HSMs enable you to always remain in control, with the flexibility to use the same key materials across your organization and move keys freely, and securely between cloud and on-premises environments. Leveraging an unrivalled range of integrations to deliver operational efficiency, repeatability and assure business continuity in an affordable model, Luna HSMs make security simple.

## Luna HSM hybrid solution benefits

**Secure any use case, any application, any industry in any environment**

- **Secure** - always remain in control of your keys and ultimately your data
- **Operational efficiency for reduced costs** - flexibility to move keys freely between cloud and on-premises and vice versa
- **Integrated** - seamless security for hundreds of use cases across cloud, hybrid and on-premises Luna HSM application integrations
- **Future-proof** - crypto-agile, purpose-built hybrid solution

## How does it work?

Easily deploy and manage a single client to support both Luna HSMs on-premises and Luna Cloud HSMs, automatically sharing key material across both environments. Simplify your integration and deployment with a wide variety of APIs, flexible deployment options

and superior performance — you can quickly secure hundreds of applications with out-of-the-box technology partner integrations

## Hybrid-enabled usability

- **Secure Backup** - both Luna HSMs (on-premises and cloud) can be used as a backup HSM with automatic key replication
- **Hybrid Root of Trust** - migration from Luna HSM on-premises to Luna Cloud HSM services and vice versa, with keys flowing securely back and forth between the two
- **Reliability** - both Luna HSMs (on-premises and cloud) can be used as a standby in case one HSM becomes unavailable, optimizing performance and maintaining SLAs
- **Scalability** – enabling effective workload distribution, both Luna HSMs (on-premises and cloud) can be used for bursting of applications between cloud and on-premises to help with peak performance requirements

## Secure backup and key cloning

With Luna HSMs, you can securely backup and restore HSM key material. The keys are directly cloned and can flow from on-premises to cloud and cloud to on-premises. Automatic key replication is enabled for backup to all Luna HSMs, and also for Azure and IBM dedicated Luna HSMs. Additionally, the Luna Cloud HSM is available on the Google Cloud Marketplace and Thales Data Protection on Demand Marketplace.

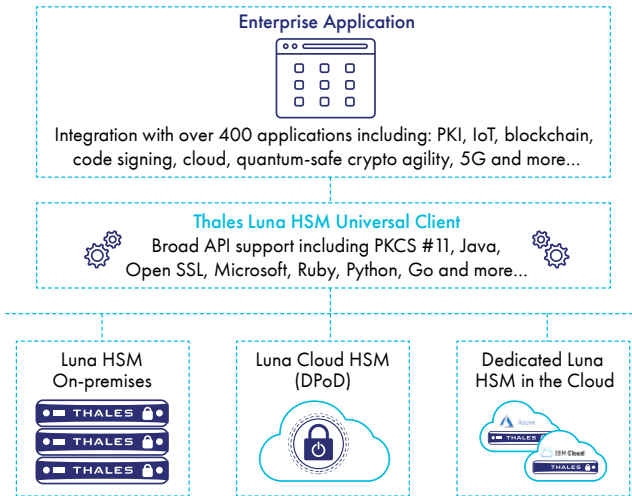
**Luna Cloud HSM Backup Service:** you can be assured that the backup is to a resilient Luna Cloud HSM service (99.95% SLA), and so provides you with the peace of mind that your critical keys are securely stored in FIPS 140-2 Level 3 validated hardware always backed up and highly available - underpinning both your security and compliance mandates.

**Off-line Backup HSM Solutions:** backing up from the Luna Cloud HSM to Luna HSM on-premises, you can be assured that you always have a copy of your keys on-premises, and that your critical keys are constantly protected within the high-assurance, tamper-evident FIPS validated HSMs. Thales offers flexible options to help maintain business continuity, with offline backup HSM and cloud backup HSM solutions. You can backup on-premises Luna HSM hardware to a dedicated Luna Cloud HSM backup service available in Thales Data Protection on Demand (DPoD). Backups are encrypted before being transferred to the cloud backup service (DPoD), ensuring Thales

doesn't have access to your key material. You can also backup encryption keys from the Luna Cloud HSM to a dedicated Luna Backup HSM that is stored in a fire safe or similar secure location on-premises ensuring you always have a secure copy of your encryption keys.

## Luna HSM Hybrid Solutions

Flexible HSM deployment options in the cloud, on-premises or across hybrid environments



## About Thales

Today's businesses and governments depend on the cloud, data and software to deliver trusted digital services. That is why the most recognized brands and organizations around the world rely on Thales to help them protect sensitive information and software wherever it is created, stored or accessed – from the cloud and data centers to devices and across networks. As the global leader in data security and software licensing, our solutions enable organizations to move to the cloud securely, achieve compliance with confidence, create more value from their software and deliver seamless digital experiences for millions of consumers every day.

With seamless key migration between Luna HSM and Luna Cloud HSM Services, Thales helps customers ensure their data and the keys to that data are secure, regardless of where their data resides by supporting third party HSM integrations, common SDK and API support and high availability group access for both on-premises Luna appliances and DPoD services.

Proven and certified as a cloud/environment agnostic data protection market leader, Thales is the only vendor that offers you the flexibility to choose from an extensive range of HSM deployment options, providing a true hybrid HSM solution distribute workloads between on-premises and cloud-based environments.

To learn more about Luna HSM Hybrid Solutions visit: <https://cpl.thalesgroup.com/encryption/hardware-security-modules/hybrid-hsms>