

# Hybrid Thales Luna HSM Solution



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 and compliant.

## The only true hybrid HSM

Thales Luna HSMs provide a unique solution that was engineered for hybrid, multi-cloud environments. For over 20 years, Luna HSMs have provided a secure root of trust for organizations that understand the value of their data, and with the launch of Thales Data Protection on Demand (DPoD) - Luna Cloud HSM service,

they combined their proven, technological superiority with the most innovative transformation tools available.

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.

## Hybrid Luna HSM 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. Moreover it affords seamless integration of over 400 technology partner applications such as PKI and certificate security through to Code signing, as well as securing keys for applications such as CyberArk or TDE databases from Oracle and Microsoft. Naturally the Luna HSM family is fully integrated using industry standard interfaces such as Java, PKCS#11, and more.

## 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

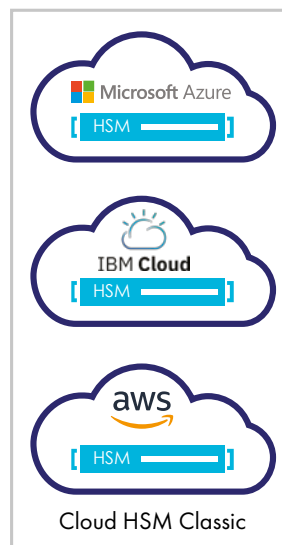
## Secure backup and key cloning

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 Luna Cloud HSM, Luna HSMs on-premises (including Luna Backup HSM) and also for Azure, IBM and AWS Classic dedicated Luna HSMs.

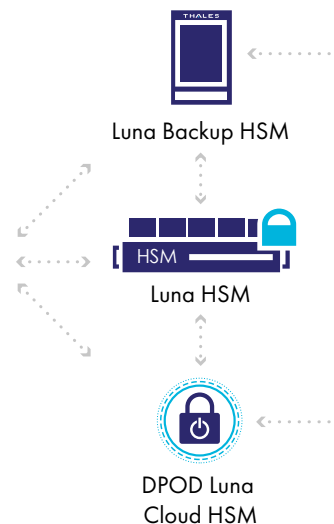
When backing up to Luna Cloud HSM Services, you can be assured that the backup is to a resilient Luna Cloud HSM service (99.95% SLA), and so provides you with the peace of mind that your critical keys are securely stored in NIST FIPS 140-2 Level 3-certified hardware, always backed up and highly available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

When 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 140-2 Level 3-certified HSMs. On-premises Luna HSMs offer market leading performance with over 20,000 ECC and 10,000 RSA operations per second for high performance use cases, and provide the ability to develop and deploy custom code within the secure confines of the HSM via a Functionality Module (FM).

### Cloud Provider Hosted Luna HSM Services



### Hybrid/Cloud/On-premises Luna HSMs



With seamless key migration between Luna HSM and DPoD Luna Cloud HSM service, 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 for over 30 years, Thales is the only vendor that offers you the flexibility to choose from an extensive range of HSM deployment options, providing a truly hybrid HSM that can distribute workloads between on-premises and cloud-based environments.





To learn more about Hybrid Luna HSM visit our website: [safenet.gemalto.com/data-encryption/hardware-security-modules-hsms/](https://safenet.gemalto.com/data-encryption/hardware-security-modules-hsms/)

Or why not get a FREE evaluation of Luna Cloud HSM on Thales Data Protection on Demand? Visit: [safenet.gemalto.com/data-protection-on-demand/](https://safenet.gemalto.com/data-protection-on-demand/)

## 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.

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

**Americas** - Arboretum Plaza II, 9442 Capital of Texas Highway North, Suite 100, Austin, TX 78759 USA • Tel: +1 888 343 5773 or +1 512 257 3900 • Fax: +1 954 888 6211 • E-mail: [sales@thalessec.com](mailto:sales@thalessec.com)  
**Asia Pacific** - Thales Transport & Security (HK) Lt, Unit 4101-3, 41/F, Sunlight Tower, 248 Queen's Road East, Wanchai, Hong Kong • Tel: +852 2815 8633 • Fax: +852 2815 8141 • E-mail: [apacsales.cpl@thalesgroup.com](mailto:apacsales.cpl@thalesgroup.com)  
**Europe, Middle East, Africa** - 350 Longwater Ave, Green Park, Reading, Berkshire, UK RG2 6GF • Tel: +44 (0)1844 201800 • Fax: +44 (0)1844 208550 • E-mail: [emea.sales@thales-esecurity.com](mailto:emea.sales@thales-esecurity.com)