



# Procenne Cloud HSM

Fast, Secure, Reliable

[www.procenne.com](http://www.procenne.com)

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DIGITAL SECURITY



# What Is Cloud HSM?

**Cloud HSM (HSM as a Service – HSMaaS)** is a solution that is as secure as a hardware HSM in your own data center, but also includes the convenience of cloud systems. Eliminating maintenance and repair costs, Cloud HSM offers key storage, generation, signing, encryption and decryption processes such as both general propose usage and payment systems in high-security data centers in a redundant structure. In addition to security, it provides business continuity and geographical redundancy options at very low costs, and keeps corporate investments under protection.





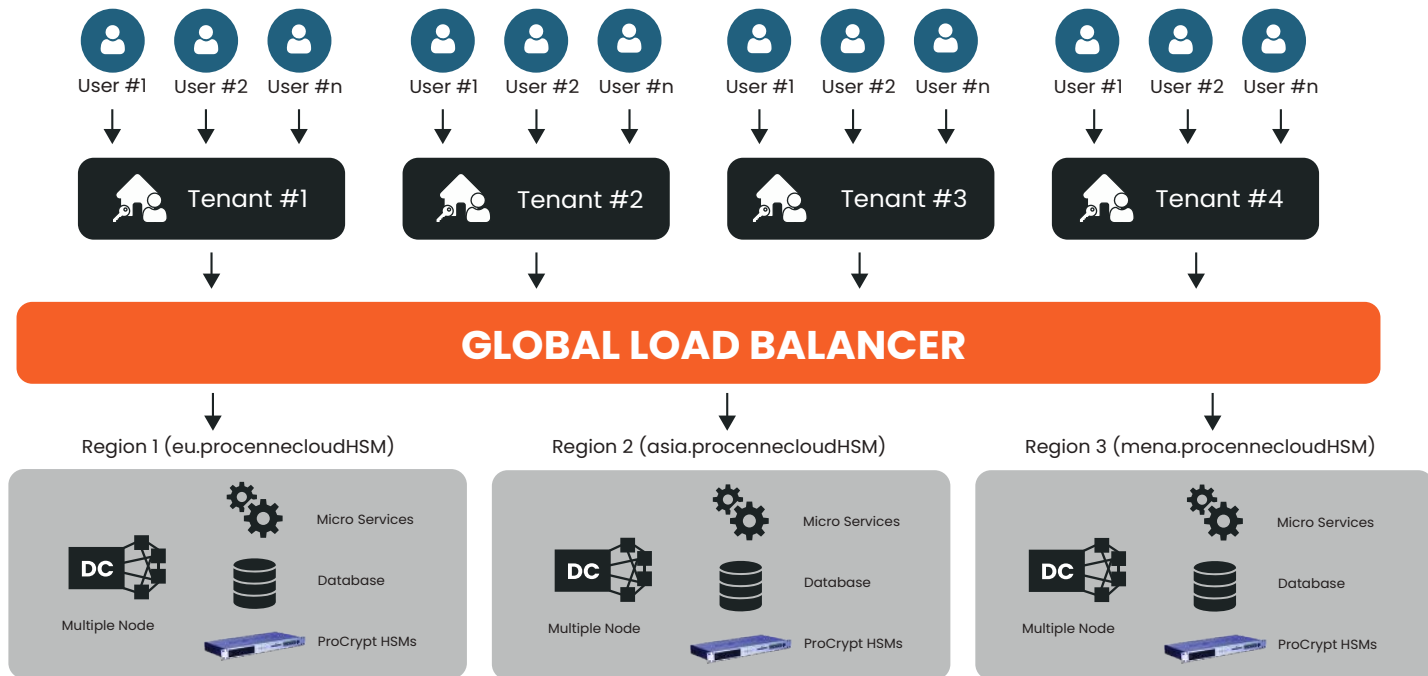
## Procenne Cloud HSM Architecture

With the power of the Procenne CloudHSM feature set in its infrastructure, the Cloud HSM has an architecture that enriches its multi-tenant environment with regional redundancy and provides advantages in terms of business continuity and redundancy.

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# Procenne Cloud HSM Architecture



# What Are The Use Cases of Procenne Cloud HSM?



## Certificate-based Signing Processes

*Ex: E-Invoice, E-Signature, E-Ledger, E-Foreclosure*



## Payment Systems

*Ex: 3D Secure, EMV, Card Issuing and Personalization*



## SSL Offloading



## User Authentication



## File & Database Encryption



## Blockchain Applications



## IoT, 5G and Post Quantum Cryptographic Operations.

# What Advantages Does Procenne Cloud HSM Offer?

- It provides a fast, dynamic, change-ready and agile cryptographic infrastructure.
- It saves costs with the pay-as-you-grow model.
- Avoids CAPEX for redundancy, HSM management, availability and physical security of your cryptographic assets.
- Provides an economical solution to seasonal high needs with its high scalability.
- Provides continuous availability, high redundancy and multi-layered security.
- Eliminates many cost items such as hardware purchasing, space in the data center, cooling, electricity and personnel for HSM management.
- Does not push processes such as initialization, hardware management and software updates to you.
- With the Plug and Play easy-to-use API libraries, the cryptographic needs of your applications are instantly solved. For this reason there is no business delay, not necessary to change coding on applications

# Why Procenne Cloud HSM?

1

Provides compliance with security regulations such as Common Criteria EAL 4+ and PCI HSM v4.0

2

Saves time with easy access and management, designed for especially to reduce business delays

3

Keeps costs at an appropriate level with the pay-as-you-grow method

4

Easily adapts to expansion needs with unlimited growth options

5

Data security is taken to the next level with its redundant structure



# How does Procenne Cloud HSM work?

Procenne Cloud HSM basically has the same features as the hardware solution; however, in this service, which is offered as a service platform, you access security resources through APIs that will be provided to you.

You can benefit from high performance, quality and secure service by performing many operations such as payment systems security, signing, digital transformation (*Ex. e-invoice*), encryption and decryption with ready-to-use APIs.

Another benefit of the CloudHSM is the elimination of hardware and management costs. That means you do not need to co-locate your HSM appliances to migrate cloud infrastructures, this will enable qualified personnel in the management of HSM to better manage their time and increase efficiency.

# To Sum Up

## Procenne Cloud HSM:

- Eliminates hardware and operating costs.
- Performs **Electronic Signing, Verification, SSL Offloading**
- Performs financial cryptographic transactions such as **EMV, 3D Secure, Card Issuing, P2P Encryption.**
- Eases the costs of **Regional and Geographical redundancy.**
- Provides **plug-and-play** services from day one with its fast and easy-to-apply API library.
- Supports you to comply with Security Regulations (**PCI HSM v4.0 and CC EAL 4+ Certificates**)
- Provides national regulations compliancy due to multitenant architecture (**Ex. GDPR**)
- Protects your investments with a **pay-as-you-grow structure.**
- Enables high control in cascading user authorization as well as high accessibility with its **multi-tenant infrastructure.**

# About Procenne

Turkey's digital security R&D center Procenne produces digital security products and solutions of critical importance for many sectors from public to finance, from education to telecom. Headquartered in Istanbul, Procenne was established in 2013 and after a 5-year R&D process, it produced the ProCrypt HSM family, which meets the need for general purpose and payment systems HSM on a single platform, and received **CC EAL4+** certificate in 2019, **PCI HSM v3.0** certificate in 2021 and **PCI HSM 4.x** certificate in 2024.

Working to meet the ever-increasing needs with its HSM Gateway CryptAway and cloud HSM products, Procenne is on its way to becoming a global school committed to the values of the first day with its more than 100 employees.

*\*In progress*



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