

**EVIDEN**

# **External Key Storage for AWS**

**Protect your sensitive and  
critical data by choosing the  
right level of sovereignty**

# Data Encryption, the control is key.

Extend your sovereignty level and protect your sensitive data by maintaining control of your encryption keys.

**What happens if your data is compromised? By encrypting your data and ensuring the safety and control of your encryption keys, only authorized users can decrypt it.**

In 2022, 60% of corporate data were stored in the cloud. A cloud migration strategy allowing companies to harness its scalability, flexibility, and cost-effectiveness.

However, this transition is not without its challenges. With data now residing in remote servers and data centers, ensuring compliance with an evolving landscape of regulations and standards has become paramount.

Simultaneously, the need to guarantee the security and confidentiality of sensitive information in the cloud has become a central concern.

The increasing prevalence of data breaches and cyber threats has further underscored the importance of robust cybersecurity measures in this digital era. As organizations continue to embrace the cloud, the delicate balance between these advantages and the risks they introduce will remain a central theme in the evolving landscape of data management. This requires that organizations tailor their level of sovereignty to align with their data's sensitivity.



## Customer Challenges



### Data control in the cloud

Organizations emphasize control over data and encryption keys, aligning their strategy with data sensitivity. This control ensures that data remains protected, accessible only to authorized users, and in compliance with specific security requirements.



### Sensitive data risks

Organizations have a paramount responsibility to safeguard their critical data, taking measures to shield it from unauthorized access and unauthorized disclosure.



### Data compliance

Organizations are required to conform to a diverse set of standards and regulations, including GDPR, eIDAS, CWA 14167-2-PP, ANSSI, and NATO SECRET, in order to uphold compliance and fulfill their legal and security responsibilities.



### IT teams' overload

Organizations face challenges in securing their IT infrastructure due to the heavy workload on IT support and management teams, who are tasked with numerous responsibilities.

# External Key Storage for AWS at a glance

In AWS, data is encrypted during transit at multiple levels, and AWS customers retain control over data encryption at rest. While data in AWS is encrypted with advanced algorithms, AWS Key Management Service typically handles the encryption keys. For those seeking greater control over key management, we offer a trusted external hardware security module made in the EU.

We offer an end-2-end solution enabling AWS customers to overcome their security challenges and protect their sensitive data.



## Manage keys outside AWS with exclusive control

External key storage for AWS is enabling the storage of additional keys on a hardware security module (HSM) that is operated by Eviden and securely stored in a datacenter outside the cloud, making sure that the entire encryption process is managed.



## Sensitive data protection

To protect the data encryption keys, additional master keys are generated from the HSM to encrypt them (process called envelope encryption). Without the additional key, the original data is inaccessible.



## Data compliance

External key storage for AWS is a complete service for AWS cloud infrastructures and complies with the most restrictive data privacy regulations (GDPR, eIDAS), raising the level of sovereignty over your data in AWS, including the ability to encrypt with key material outside of the cloud provider.



## Ease of management and deployment

End-to-end solution in a SaaS model, fully managed and operated by Eviden, to increase efficiency and reduce costs by simplifying key management and solution deployment.



# When security meets sovereignty

Elevate your sovereignty and fortify the security of your most sensitive data by retaining control of your encryption keys within our Trustway Proteccio™ HSM, securely housed in a datacenter located outside the cloud.

Our External Key Storage solution is based on Trustway Proteccio™ Hardware Security Module, the only HSM with the French national cybersecurity agency's "reinforced qualification".

Our Hardware Security Module merges resilient physical security components with a cryptographic core that upholds the most stringent security criteria, making it one of the world's most certified cryptographic modules for integrating into corporate information systems and cloud services.

With established deployments in vital sectors like critical infrastructure operators, defense, energy, and telecommunications, Trustway Proteccio™ provides a guarantee that both national agencies and businesses can rely on its cutting-edge architecture's dependability and the product's resilience.



## Certified cryptography



The Trustway Proteccio HSM is entirely designed, developed and made by Eviden in France. It complies with the security assessments of the most demanding certification processes covering all of the hardware and software architecture.



ANSSI QR



NATO SECRET



EU Restricted



CC EAL4+



SOG-IS



eIDAS

Qualification is the French government's recommendation of proven cybersecurity products or services officially approved by French national cybersecurity agency (ANSSI). There are 3 levels of qualification, the highest being the "reinforced qualification", based on the CC EAL4+ evaluation. Today, Eviden has the only hardware security module with the ANSSI "reinforced qualification" making it the most secure in the world.

# The right answer to your security challenges

Our solution combines security, ease of deployment and management to support AWS customers in their security journey.

**Top 1**  
Managed Security Services European Vendor by Gartner\*

Only HSM on the market developed, manufactured and supported in France with the highest qualification from the **ANSSI (QR)**



**End-to-End service** with 24/7 service operations with all support tiers

**Full as-a-Service** delivery with an OpEx price model

State-of-the-art and secure architecture including:

- AWS **Private Link** for customer interconnexion
- AWS **Direct Connect** between AWS and HSM

\* Revenue based

## How it works ?



### Customer journey

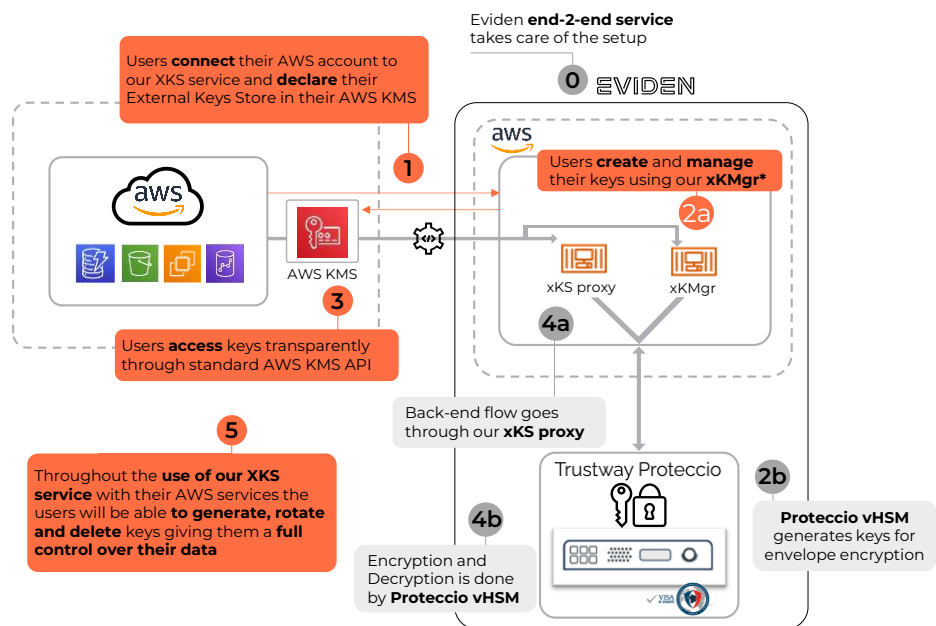
End-2-end service including deployment, operation and management by Eviden.

Maintain control of your encryption keys with additional keys generated from the HSM to encrypt them.

AWS KMS forwards API calls to securely communicate with the HSM.

Integration with most AWS services.

The service also includes xKMGr, a component to manage HSM keys lifecycle through REST API, to allow easy DevOps integration.



# Eviden, your trusted AWS partner

Eviden and AWS have worked closely to develop uniquely designed solutions to protect and monitor organizations' essential AWS resources in hybrid and multi-cloud environments.

Our well recognized expertise will support AWS customers to drive innovation and remain secure.



**14**  
AWS Competencies



**2400+**  
Certifications



Partners  
since **2013**



**AWS level 1**  
Managed Security  
Service Provider  
Competency



AWS Well-  
Architected Partner



**2022**  
EMEA GSI  
Partner of the Year

They trusted us,  
discover **40+** customers references on our  
[website](#)

# EVIDEN

## About Eviden<sup>1</sup>

[Eviden](#) is a next-gen technology leader in data-driven, trusted and sustainable digital transformation with a strong portfolio of patented technologies. With worldwide leading positions in advanced computing, security, AI, cloud and digital platforms, it provides deep expertise for all industries in more than 47 countries. Bringing together 53,000 world-class talents, Eviden expands the possibilities of data and technology across the digital continuum, now and for generations to come. Eviden is an Atos Group company with an annual revenue of c. € 5 billion.

<sup>1</sup> Eviden business is operated through the following brands: Alia Consulting, AppCentrica, ATHEA, Atos Syntel, Bull, Cloudamize, Cloudreach, Cryptovision, DataSantics, digital.security, Eagle Creek, EcoAct, Edifixio, Energy4U, Engage ESM, Evidian, Forensik, IDEAL GRP, IDnomic, In Fidem, Ipsotek, Maven Wave, Miner & Kasch, Motiv, Nimbix, Processia, Profit4SF, science+computing, SEC Consult, Visual BI, Worldgrid, X-Perion, zData

## About Atos

Atos is a global leader in digital transformation with 105,000 employees and annual revenue of c. € 11 billion. European number one in cybersecurity, cloud and high-performance computing, the Group provides tailored end-to-end solutions for all industries in 69 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos is a SE (Societas Europaea) and listed on Euronext Paris.

The [purpose of Atos](#) is to help design the future of the information space. Its expertise and services support the development of knowledge, education and research in a multicultural approach and contribute to the development of scientific and technological excellence. Across the world, the Group enables its customers and employees, and members of societies at large to live, work and develop sustainably, in a safe and secure information space.

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