



PRESS RELEASE

## Atos enforces security of IoT ecosystems with new dedicated Hardware Security Module

Paris, May 16, 2019 – At the 4th [Atos Technology Days](#) at [VivaTech](#), Atos, a global leader in digital transformation, today announces the launch of its new **Hardware Security Module (HSM)<sup>1</sup> for IoT**, a high-performance security device designed to protect IoT ecosystems through cryptographic features. The new HSM, part of the [Horus](#) portfolio, combines 'as-a-Service' access, centralized key management system and IoT security services for a fully-integrated solution.

### An HSM for 'as-a-Service' applications with customization features

The new Horus HSM for IoT by Atos is available for applications running in **SaaS mode** (software-as-a-service) and enables several tenants to benefit from ultimate encryption as if they had their own dedicated HSM. Indeed, the HSM solution is divided into several 'security domains' which can be personalized by each tenant, and act as tamper-proof strongboxes with high levels of isolation between tenants, users and roles. The security teams can remotely manage HSMs without any physical access - which simplifies security management and saves time.

### Centralized Key Management for multi-site deployments

To securely manage IoT devices, each connected object must be given a trusted identity through the provision of secure cryptographic keys via HSMs. The Horus HSM for IoT provides a **Key Management Center** which reduces the number and complexity of operations for security officers, while ensuring consistency in key distribution for multi-sites deployment contexts.

### Support of IoT security services and protocols

Beyond 'classic' HSM features, the Horus HSM for IoT offers embedded IoT security services, such as the authentication of communicating devices and the processing and confidentiality of data transmitted. These services are specific to each industry sector and follow the latest IoT security protocols, such as: LoRAWAN 1.0/1.1 for telecommunications, DLMS/COSEM for Utilities and smart meters, LWM2M/OSCORE for machine to machine communications and device management in industrial IoT.

*"The Horus HSM by Atos is suitable for all sectors" says **David Leporini, IoT Security Director at Atos**. "In digital banking, payment solution editors can use it to secure transactions in banking processing. In manufacturing, the Horus HSM for IoT could be used to secure all smart machine to machine communications".*

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<sup>1</sup> A hardware security module (HSM) is a physical device that provides extra security for sensitive data. This type of device is used to generate and provision cryptographic keys for critical functions such as encryption, decryption and authentication for the use of applications, identities and databases.

For its 4th edition, [The Atos Technology Days](#) are co-located with [VivaTech](#), the world's rendezvous for start-ups and leaders to celebrate innovation, with over 100,000 attendees. Come and visit us Hall 1, Lab D39.

Read more about Atos solutions for [IoT security \(Horus portfolio\)](#), [Atos vision for IoT security](#) and [Digital vision for cybersecurity](#) – on [atos.net](#) website.

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### **About Atos**

Atos is a global leader in digital transformation with over 110,000 employees in 73 countries and annual revenue of over € 11 billion. European number one in Cloud, Cybersecurity and High-Performance Computing, the Group provides end-to-end Orchestrated Hybrid Cloud, Big Data, Business Applications and Digital Workplace solutions. The group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and operates under the brands Atos, Atos Syntel, and Unify. Atos is a SE (Societas Europaea), listed on the CAC40 Paris stock index.

The purpose of Atos is to help design the future of the information technology space. Its expertise and services support the development of knowledge, education as well as multicultural and pluralistic approaches to research that contribute to scientific and technological excellence. Across the world, the group enables its customers, employees and collaborators, and members of societies at large to live, work and develop sustainably and confidently in the information technology space.

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