Vade Secure Strengthens its Application Ecosystem Backend with OpenIO SDS

OpenIO's data protection and management features simplify operations while improving uptime, availability, and resiliency.

ABOUT VADE SECURE

- Advanced email protection solutions
- Designed for ISPs, OEMs, Hosting companies and Enterprises
- Run on premises and in the cloud

QUICK DATA

150 TB
storage

5000+
customers

3
sites for cloud services

500 M
protected emails

Vade Secure deploys its solutions on premises and as SaaS, and these services require scalability and multitenancy with no compromises on performance and data availability.

They have chosen **OpenIO SDS** because it is open-source software, giving the company full access to the source code, and its superior data protection characteristics and flexibility are a perfect match for their innovative security solutions.

" OpenIO SDS scales seamlessly and quickly. We did this twice already in a few months, without service disruption, and new resources were available in a matter of minutes.

→ Michael Boutoille, COO, Vade Secure

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The context

Vade Secure is a global email security solution provider with more than 5,000 customers worldwide, and protects 500 million mailboxes against email threats and scams. With an increasing demand for email security solutions, Vade Secure has been building a growing application ecosystem to help organizations of any size protect themselves against email threats including ransomware, malware, phishing, spam, and more.

Vade Secure's solutions are designed for ISPs, OEMs, and enterprise organizations of any size, and they run on premises or in the cloud. Because of the critical role of email in all business processes, its services need the highest uptime, scalability, and flexibility to meet the most demanding requirements.

Vade Secure adopted object storage to overcome the limits of traditional file system solutions such as scalability, but also because OpenIO SDS improves data management and protection, with embedded remote replication, and doesn't require traditional backup operations. These characteristics enabled Vade Secure to build a strong backend for its cloud operations and a more reliable product for on-premises installations. The company also saved money managing their cloud infrastructure and simplified it for large on-premises installations.

Vade Secure's solutions analyze, index, process, and store risky emails in real time. Quarantine email repositories do not need very large volumes per customer, but the object store must be capable of handling many customers together with objects of all sizes concurrently, at a high write speed. These data repositories sustain a high change rate in a relatively short time span, but they cannot be too resource hungry. Thanks to the flexibility and lightweight design of the OpenIO SDS object store, Vade Secure achieved these goals and is now able to install its infrastructure backend on a wide range of hardware or virtualized environments. And the same backend is now at the core of Vade Secure's cloud solutions, thanks to its scalability and multitenancy characteristics.

With datacenters in Europe and the US, Vade Secure's SaaS solution, powered by OpenIO SDS, now provides email security services to a growing number of customers across several geographies.

In order to get the best from the object store, Vade Secure developed a specific integration with OpenIO SDS that leverages both native and S3 APIs. The former makes it possible to get full control of the object store at the highest speed, while the latter allows Vade Secure to share data with third-party apps when necessary.

Why Object Storage

Object storage is ideal for storing emails. Rich and customizable metadata available within each object helps categorize, index, and analyze emails without complex tools or databases to manage.

Object storage provides better scalability and multitenancy than file system solutions. Object storage can easily scale up to several billion objects per user and manage many millions of concurrent users in the same namespace.

Object storage has better reliability and availability than traditional storage. Advanced data protection schemes, such as remote replication, distributed erasure coding associated with object versioning, and WORM capabilities, make it possible to avoid traditional backup operations while improving data availability.

The choice

Vade Secure wanted to **improve the overall infrastructure backend** for its solution and deliver better services and products to its customers.

With OpenIO SDS, they simplified operations at the backend, and increased **resiliency, availability, and scalability**, while maintaining the **flexibility** their customers need.

The ability of OpenIO SDS to **grow with small increments, without complex and performance-hindering rebalancing operations**, enables Vade Secure to adapt the infrastructure quickly to changes when necessary and at limited cost.

" Open source was a key differentiator for us. As a security company, we want to avoid any form of lock-in, and we want the option to examine the code when necessary.

→ Michael Boutoille, COO, Vade Secure

OpenIO SDS is now serving as storage backend for several solutions, and we plan to leverage it for future products too. "

Why OpenIO SDS

Vade Secure is a customer-focused company providing security solutions; responsiveness and reliability are key aspects of its strategy, and they wanted the same level of quality for its solution ecosystem. Vade Secure's products, adopted by large ISPs and other organizations of all sizes, must be efficient, constantly updated, and fast under any conditions, whether deployed on premises or consumed as a service.

After testing other solutions, Vade secure opted for OpenIO because it offers the superior technology needed to build a strong, long-lasting backend for their infrastructure. The companies' development teams were able to collaborate on a seamless integration between the products. OpenIO SDS, thanks to its dynamic data protection features and Conscience technology, has demonstrated its ability to efficiently manage very small as well as large objects (like emails and attachments) concurrently by selecting the appropriate data protection and data placement in the cluster automatically, on the fly.

Open Source
OpenIO SDS is an open-source software-defined storage solution. For a security company like Vade Secure, the ability to examine the code to ensure that there are no backdoors or bugs that can compromise system security is fundamental; the company needs to control the entire stack and fulfill customer expectations on quality control. At the same time, leveraging open-source software avoids any form of lock-in and vendor dependency over the long term.

Scalability and multi-tenancy
OpenIO has a proven track record of installations ranging from a few terabytes up to several petabytes, storing billions of objects, including emails, in the most demanding environments. It has been designed to manage several million users concurrently with consistent performance, while segregating different workloads

and data sets to avoid noisy-neighbor situations.

Efficiency and Flexibility
Vade Secure wanted to install OpenIO SDS in any kind of environment, physical or virtual, and have the freedom to configure and expand its storage system quickly when needed. Thanks to its unique architecture, OpenIO SDS can work on both physical and virtual hardware and on nodes of different sizes and hardware generations. With OpenIO SDS, storage expansions take just minutes, requiring no data rebalancing, and all the new resources are immediately available. Conscience technology, OpenIO's dynamic load-balancing mechanism, oversees available resources in the cluster and optimizes their usage continuously by always providing the best path for each operation.

Dynamic data protection
OpenIO SDS selects the appropriate data-protection scheme in real time when data is written, making it possible to manage both small and large files, including text-only emails and large attachments, constantly ensuring optimal capacity utilization, protection, and performance.

Pro-active and responsive support
Vade Secure found in OpenIO an organization attentive to market and customer needs, ready to add or optimize features accordingly. The two companies' technical teams worked seamlessly and efficiently to bring Vade Secure's solutions to the market in a very short time.
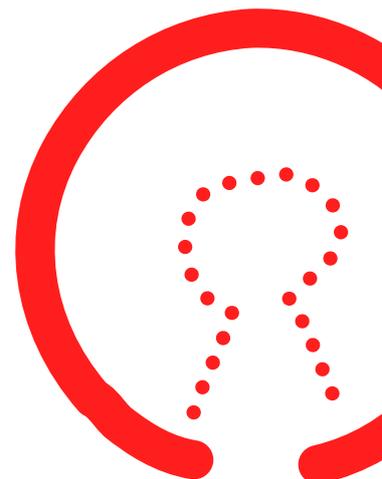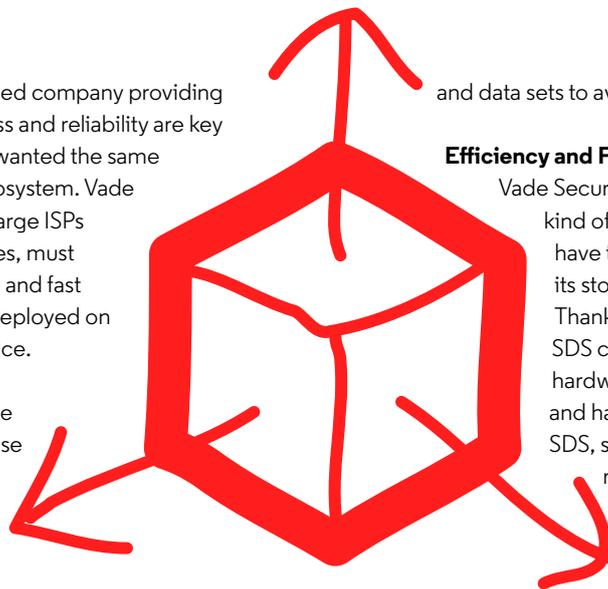
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OpenIO SDS dramatically simplified operations for our cloud services while providing better data protection and remote replication for faster disaster recovery.

→ Michael Boutoille, COO, Vade Secure

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Key takeaways

OpenIO SDS is a next-generation object storage solution that combines unmatched flexibility, ease of use, performance, and TCO.

Its unique and innovative characteristics allow OpenIO customers to build infrastructure backends that can start small and scale quickly depending on business requirements, without service disruptions or limitations. It is perfect for complex cloud environments as well as on-premises installations.

Open source, and with the unmatched flexibility and performance provided by Conscience technology, OpenIO SDS is an easy-to-use solution that can be easily integrated to become the backend for other products.

OpenIO's support and professional services enable third parties to build their application integration quickly with either S3 or native APIs. OpenIO's premium subscription plans extend this collaboration even further, providing specialized and dedicated engineering resources to monitor the storage system and pro-active advice on tuning improvements as well as latent issues.

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