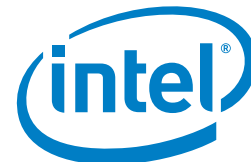CASE STUDY
Intel® Xeon® Processor E5 Family
Intel® Solid-State Drive DC S3500 Series
Intel® Ethernet Adapters
Cloud Computing Solutions

(intel)

Small change, big difference

Jaguar Network delivers performance improvements to customers by introducing Intel® Solid-State Drives to its cloud platform

Founded in 2001, Jaguar Network is a hosted service provider, based in France. It has a presence in 30 data centers and operates over 1,000 outsourced servers both at home and internationally. The company's suite of services evolves in line with customer requirements and in recent years it has developed a cloud-based offering. As part of its mission to boost the performance of its cloud platform with the latest technology, the company invested in the Intel® Solid-State Drive DC S3500 series. The new technology has benefitted both Jaguar Network and its customers.

Challenges

- **Cloud capabilities.** Continue to innovate with cloud solutions to meet changing customer demands
- **Support growth.** Offer scalable, powerful, but affordable support to mid-sized customers that are growing quickly

Solutions

- **Solid-State Drives.** Improve performance and efficiency by using Intel® Solid-State Drives (Intel® SSDs) instead of hard disks
- **Tailored technology.** Custom cloud solutions include Intel® Xeon® processors E5 family and Intel® Ethernet Adapters

Technology Results

- **Performance boost.** Intel Solid-State Drive DC S3500 series increased the performance of one customer's Web platform by 600 percent when replacing older hard disks in cloud server environment

Business Value

- **Growing customer.** Customer CrossKnowledge has doubled its user base in a year without needing to purchase more servers, thanks to new Intel SSDs in its existing hardware
- **Collaborative development.** Working closely with Intel gives Jaguar Network and its customers access to new technologies sooner, for quicker deployment and smarter investment planning

"We found that by replacing just one hard disk with an Intel SSD, we significantly improved our performance. This makes a huge difference for us, as our usage rate doubles every year, yet we haven't needed to add any more servers to our cloud platform."

Kevin Polizzi,
President,
Jaguar Network

Changing customer challenges

Jaguar Network has grown rapidly over the last few years. Building on its origins as a hosting services company, it now offers a diverse range of telecommunications, cloud, hosting and security solutions to its customers. It is particularly proud of its highly scalable and configurable cloud-based infrastructure-as-a-service (IaaS) and platform-as-a-service (PaaS) solutions.

"We saw the potential of the cloud from the outset and wanted to make sure we were well positioned to help our own customers take advantage of what it has to offer," explains Kevin Polizzi, president of Jaguar Network. "We've always made

sure we use best-of-breed technologies in the solutions we develop and so have used servers powered by Intel Xeon processors for a number of years as part of our cloud platform."

Like the cloud itself though, the market segment in which Jaguar Network operates is continuously evolving, and its customers' needs do not stay the same. While it provides services to customers in many industries of many sizes, a large proportion of its customer base is made up of fast-growing small to medium enterprises. They want to take advantage of cloud technologies, but often struggle to support them with limited IT budgets and internal resources.

Leading cloud services provider delivers new solutions with Intel® technology

"These customers need really powerful cloud platforms to support critical business applications, and they need to be easily and rapidly scalable," says Polizzi. "However, they also need to be cost effective. For this reason we decided to look into the possibility of switching from traditional hard drives to solid-state drives as part of our solution stack."

Knowing that replacing the hard drives in existing servers with more power-efficient and higher-performance solid-state drives can deliver strong performance benefits, Jaguar Network began seeking the right technology.

A solid base for the cloud

Internal tests convinced the company that Intel SSDs would fit the bill well. "We found that switching the hard drives in one customer's cloud environment for Intel SSDs would increase the performance of their Web-based platform by 200 percent," says Polizzi. "In addition to the performance improvements, we believe that the lower power consumption of Intel SSDs can deliver strong energy efficiency, which in turn can create cost savings for us and our customers."

Having evaluated the technology and found it capable of delivering significant performance and efficiency benefits, Jaguar Network incorporated Intel SSDs into its cloud offerings.

A fast-growing customer

One customer that relies on Jaguar Network's solutions and Intel® technology is CrossKnowledge. Based in France, it develops eLearning applications and content for large enterprises.

It has hundreds of customers around the world, and millions of users, so the reliability and responsiveness of its platform are essential. "Learners will get bored and give up if their content takes too long to load," explains Vincent Alloo, CTO at CrossKnowledge. "A large volume and variety of multimedia content types combined with a large and demanding user base means we can't afford to get the IT that supports our eLearning resources wrong."

The company needed a solution provider that would deliver network storage, load balancing and firewall, with high performance and scalability throughout. After looking at a number of options it found that Jaguar Network's solution, which included Intel SSDs, the Intel Xeon processor E5 family and Intel® Ethernet Adapters, was the only one to meet its demands affordably.
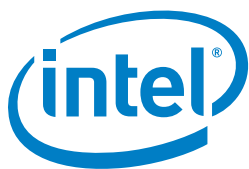
"We were very impressed with the Intel SSDs when we tested them," continues Aloo. "We found that by replacing just one 300GB hard disk with a 600GB Intel SSD S3500 series, we doubled our capacity. This makes a huge difference for us, as our usage rate doubles every year, yet we haven't needed to add any more servers to our cloud platform."

Lessons learned

Sometimes a small change can make a big difference. It's not always necessary to rip and replace an entire platform to deliver strong results. By identifying one element of its solution that could be improved – replacing hard disks with SSDs – Jaguar Network created big cost savings and performance improvements for its customers.

CrossKnowledge looks forward to a continued collaborative relationship with both Jaguar Network and Intel in the future. "Jaguar has just opened a new data center near our headquarters, so we will take advantage of its hosting capabilities," says Alloo. "We also value the opportunity to have access to the latest Intel technologies, since we can evaluate their potential and better plan where and how we need to invest in our IT so that it continues to deliver the outstanding eLearning environment that our users expect."

Find the solution that's right for your organization. Contact your Intel representative, visit Intel's Business Success Stories for IT Managers (**www.intel.co.uk/Itcasestudies**) or explore the Intel.co.uk IT Center (**www.intel.co.uk/itcenter**).

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