1.3X faster

random writes versus all-flash storage.[1]

15X faster

random reads versus hard-disk storage.[1]

IDC Frontier Future Proofs Storage System with Intel®™ Optane™ Technology

IDC Frontier offers cloud and data center services as an innovative partner providing foundations for the future. To solve disk capacity and performance issues in its platform for managing the IDCF Cloud, an Infrastructure as a service (IaaS) public cloud that the company provides, IDC Frontier developed a private cloud for its own use by combining Intel® Optane™ SSD P4800X series and VMware vSAN. In terms of cost per input/output operations per second (IOPS), the new system performs random writes of a 4 KB IO size at 1/8th the cost of all-flash storage and 1/14th that of hard disk drive storage. For random reads, it's 1/48th of the cost of hard disk drive storage. There have also been improvements in administrative aspects, with fast virtual machine provisioning and shorter release periods.

"The reasons for our selection were the low latency consistent performance in random reads/writes. Using the solution on bare-metal servers and a particularly significant effect on database response times, which improved application performance."

Takashi Kanai, Director of Cloud Infrastructure Department, IDC Frontier

Products and Solutions
Intel® Xeon® Scalable processors
Intel® Optane™ SSD Series

Industry
Cloud

Organization Size
201–500

Country
Japan

Partners
VMware

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Case Study

1 For more complete information about performance and benchmark results, visit https://www.intel.com/content/www/us/en/customer-spotlight/stories/idc-frontier-private-cloud-customer-story.html