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SEIJO UNIVERSITY

Improving I/O Latency with All-Flash HCI Using Intel® Optane™ SSDs for Caching

Seijo University is a university for humanities and social sciences. Five years had passed since VMware vSAN was first deployed and the university was at the point of hardware replacement, so they considered migrating to the next hyperconverged infrastructure (HCI). All-flash configurations were deployed for the next-generation platform where high-speed SSDs and NAND SSDs were combined to find the optimal balance between cost and performance. In this process, they turned to Intel® Optane™ SSDs and 2nd Gen Intel® Xeon® Scalable processors. By moving to the new system, the university saw a significant improvement in performance and system stability as expected. A unit of measurement for I/O latency, which used to be milliseconds in the previous HCI environment, improved to microseconds[1]. It led to a huge improvement in application response for security and log management.

> ""I/O latency, which used to be milliseconds in the previous HCI environment, improved to microseconds.[2] It led to a huge improvement in application response for security and log management."
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> **Kazuhiro Igarashi, Media Network Center Manager, Seijo University**

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