

**LG CNS**, while deploying South Korea's largest virtual desktop infrastructure, wanted to avoid problems with end-user performance. So the company selected an all-flash array from Pure Storage to support its VDI. The Pure Storage FlashArray™ offers superior performance and reliability, improving employee productivity, as well as enhancing storage efficiency.

**BUSINESS TRANSFORMATION**

By using all-flash storage to support its VDI deployment, LG CNS has improved the productivity of employees and partners.

**GEO**

South Korea

**INDUSTRY**

Information Technology Services

“The Pure Storage FlashArray provides the high availability that improves security of the VDI, improving performance for all our employees.”

Seon-hee Jeong, *Assistant Director*

**LG CNS ADOPTS PURE STORAGE FLASHARRAY FOR A LARGE-SCALE VDI DEPLOYMENT**

LG CNS is an information technology service provider that has led the advancement of South Korea's IT infrastructure since it was founded in 1987. Based on continuous investment in advanced technologies and its experience in managing large projects, the company provides comprehensive IT services, including system deployment and operation as well as consulting to business customers in the technology, finance and public sectors.

LG CNS nurtures new business initiatives while adopting new technologies such as big data, cloud and the Internet of Things (IoT). As part of its strategy to stay at the leading edge of technology, LG CNS deployed an extensive virtual desktop infrastructure (VDI).

With about 10,000 users — encompassing employees, customers and partners — the VDI was South Korea's largest. To avoid the performance degradation that sometimes accompanies a large-scale VDI, the company decided to deploy flash storage. To select a flash storage provider, the company reviewed benchmark tests and conducted proof of concept trials with products from multiple vendors. In the end, Pure Storage stood out in terms of performance, reliability and cost-efficiency.

The evaluation team was particularly impressed that Pure Storage arrays include several important capabilities as standard features, including real-time deduplication and data compression, and local and remote replication.

“LG CNS's enterprise-wide VDI work environment required a high-performance storage solution that could support various user-generated data and tasks,” explained Seon-hee Jeong, assistant director of IT at LG CNS who led the project. “We chose Pure Storage with confidence because of its superior data compression and deduplication features and high-availability technology. With Pure, we have achieved reliable performance even in a virtual desktop environment.”

Installation of the FlashArray was carried out by Pure Storage local partner, Makus, which distributes solid-state storage products and provides technical support services to large businesses in a wide range of industries, including manufacturing, telecommunications and finance. It took about four months from equipment shipping and testing to pilot deployment and implementation of the Pure Storage system.

**COMPANY:**

LG CNS  
[www.lgcns.com](http://www.lgcns.com)

**USE CASE:**

- VDI – Citrix® XenDesktop®

**CHALLENGES:**

- Deploy a 10,000+ seat VDI environment to support efficiency improvement of all employees.
- Address performance degradation issues of existing storage.

**IT TRANSFORMATION:**

- Improved virtual desktop performance for VDI users.
- Reduced storage requirements by half through outstanding deduplication and compression (6:1) without compromising performance.
- Improved data security and reliability through backup and recovery.

**IMPROVED DATA RELIABILITY WITH BACKUP AND RECOVERY**

The deduplication and compression features of the Pure Storage array has reduced the company's need for storage capacity by half. In addition, the stable thin provisioning feature allows the company to flexibly allocate storage capacity to applications depending on demand and put non-utilized resources to work instantly, maximizing resource utilization.

“The high performance and thin provisioning of the Pure Storage FlashArray stabilized the virtual desktop workload, thereby reducing storage costs,” Jeong said. “In terms of storage resource utilization, the FlashArray is very efficient.”

LG CNS was able to protect its data more securely with the snapshot and disaster recovery features included in the FlashArray as standard. Also, automated local environment snapshot and remote replication functions significantly enhanced the security of the virtual desktop environment.

“The Pure Storage FlashArray provides the high availability that improves security of the VDI, improving performance for all our employees.”

The Pure Storage FlashArray has improved end-user response times in the VDI, while improving the efficiency and flexibility of the storage infrastructure. To ensure that it has access to the latest technology over the long term, LG CNS subscribes to the Pure Evergreen™ Storage program. Evergreen Storage enables storage that is deployed once and upgraded as needed, for a decade or more. Components can be mixed and matched — all online and without performance disruption — to keep storage dense, efficient, and modern.

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