About
Yangpyeong County Office
Yangpyeong is a county of around 117,000 people located in the east of South Korea's capital city, Seoul.
https://www.yp21.go.kr/

Geo
South Korea

Industry
Government

Solution Area
Database

Products in Use
FlashArray//X10
Purity

Yangpyeong County Office Speeds Up On-nara System with Pure

Yangpyeong County Office relies on the performance of the On-nara internal business process system to improve the efficacy of government services. When its legacy storage system failed to keep pace with the growing demands, it installed an FlashArray//X10 from Pure Storage. Now, data processing speed and reliability of Yangpyeong County Office's On-nara system have improved significantly, making county office workers access faster service operations.

> "Pure Storage helped us to build high-performant, reliable, and efficient system, which provided fast response speed for the employees and increased work productivity."
>
> **YU-RI JI,**
> PUBLIC OFFICER,
> YANGPYEONG COUNTY
> OFFICE

Impact on Yangpyeong County Office

50%
Reduced rack space

71%
Reduced energy consumption

3X
Achieved capacity saving ratio above 3:1

Challenges

Increase system performance by eliminating the bottlenecks in the existing HDD and flash storage.

Reduce storage operating costs and effectively manage rapidly growing data.

Results

High performance storage provides reliable service during high workload periods.

Pure Storage maximized storage efficiency through data compression and deduplication.

50%
Reduced rack space

70%
Reduced energy consumption

3X
Achieved capacity saving ratio above 3:1

ANGPYEONG COUNTY OFFICE ADVANCES ITS ON-NARA BUSINESS PROCESS SYSTEM WITH PURE STORAGE FLASHARRAY//X10

Yangpyeong is a county of around 117,000 people located in the east of South Korea's capital city, Seoul. A critical component of its IT infrastructure is the On-nara business process system (BPS). The On-nara BPS is one of the "e-Government" projects intended to enhance the efficiency and effectiveness of government services.

The On-nara system keeps track of every step of a task and enables sharing of feedback and simultaneous dissemination of information to multiple users. It also supports internal document approval and data searching and viewing services.

Yangpyeong County Office was using the On-nara system built on HDD and flash storages from other vendors. Yangpyeong County Office was frequently experiencing service delays of the On-nara system during the peak seasons such as month-end and quarter-end when the workload surges. Due to the overload, there was slowdown of internal approval and administrative process, leading to delay in civil administration service for resolving requests or complaints of citizens.

The county office decided to upgrade the On-nara system by implementing an all-flash storage to improve performance and IT service reliability.

IMPROVED PERFORMANCE, RELIABILITY, AND STORAGE EFFICIENCY

After a comprehensive evaluation, the county office opted in Pure Storage's all-flash storage arrays. Among all other all-flash storage arrays, Pure Storage stood out with superior performance, reliability and storage efficiency.

Also, due to the nature of On-nara system and governments services, data protection was essential to protect privacy right of its citizens. With Pure Storage's RAID-3D technology and Purity software for FlashArray, the county office could ensure data protection during a failure and always-on encryption without performance penalty or additional cost.

Especially, as the amendments to three major data privacy laws in Korea passed on Jan 2020, public agencies including local governments were expected to convert individual identification information retained for public purpose into pseudonymous data.

With the encryption by Purity, the county office became able to meet local regulatory requirements for pseudonymous data, and increase trust in its administrative services using personal information.

REPLACING TRADITIONAL STORAGE TO ALL-FLASH STORAGE SOLUTION

The benefits from the Pure Storage array were instantly obvious in terms of system performance and reliability. With the storage's fast response time, overall searching and viewing speed on On-nara system nearly doubled. In addition, the storage delivered consistently high performance with latencies under 1ms. The system now provides reliable service without any performance impact even during the month-end and quarter-end closing times when demands on the storage system shoot up.

As a result, the efficiency and productivity of the administrators and employees who use the system have increased as they can handle their tasks way faster. With Pure Storage, the county office could speed up the delivery of civil services such as passport issuance, and administration related to automobile or agriculture. Citizens in Yangpyeong county can now benefit from more responsive administrative services, which leads to improvement of their quality of life.

Also, Industry-leading data compression and reduction features of Pure Storage allowed the county office to achieve capacity saving ratio of more than 3:1. Through better storage efficiency Pure provides, Yangpyeong County Office reduced storage footprint, energy consumption and initial introduction cost significantly, laying foundation for realizing Green IT.