

**FnGuide** has significantly improved its operating environment by replacing its fiber channel-based legacy storage with all-flash storage. The company determined Pure Storage FlashArray to be the best foundation to reinforce the quality and quantity of their financial data, adopt new technologies such as artificial intelligence (AI) and grow to be a global financial information provider. Through this storage upgrade project, FnGuide was able to obtain the optimal infrastructure required for real-time data processing and big data analytics.

**BUSINESS INNOVATION**

Due to excessive data replication latency, FnGuide's service development had been hampered. After adopting FlashArray, the company was able to reduce the data replication time to less than 1 hour and completely eliminate the service delays while easily maintaining the latest data.

**REGION**

Korea

**INDUSTRY**

Finance

**FNGUIDE LAYS THE FOUNDATION FOR BECOMING A GLOBAL FINANCIAL SERVICE PROVIDER WITH ALL-FLASH STORAGE**

FnGuide has contributed to the advance of Korea's financial industry by providing the infrastructure needed for the market participants to make sound decision making. Since being established, the company has collected and systematized vast amount of financial data based on which they have expanded their services to include development of the engines, solutions and consulting in the areas of enterprise value assessment, index development, asset management performance assessment, and risk management. The company is poised to become a global financial information provider by continuously reinforcing the quality and quantity of their financial data and adopting state-of-the art technologies such as artificial intelligence for bigdata analysis.

FnGuide's service development and operations have been suffering due to continued latency issues in the legacy transaction environment which consists of fiber channel-based storage. It took over half a day for data replication, and constant disk replacements were necessary because SATA disks were used. To address these performance issues, FnGuide launched a storage upgrade project and replaced the entire storage system used in online transaction processing, online analysis processing and development with all-flash storage.

Storage is a core foundation for a financial data provider such as FnGuide. After clearly defining their storage requirements and thoroughly reviewing many all-flash storage products available in the market, FnGuide chose Pure Storage FlashArray//M.

Pure Storage's technical support partner Leading Point was charged with deploying Pure Storage for FnGuide. Leading Point is a service provider specializing in secure data storage & protection and data recovery.

**COMPANY NAME:**

FnGuide  
<http://www.fnguide.com/>

**USE CASE:**

- Oracle Database

**CHALLENGES:**

- Accelerate Oracle Database for faster data analysis
- Improve storage reliability and minimize disk replacement frequency
- Optimize IT infrastructure to improve service delivery

**IT INNOVATION:**

- Accelerated Oracle Database performance by more than 3x
- Obtained 99.9999% availability and improved reliability over 5x
- Reduced rack space and power consumption by 80% with 3:1 data deduplication and compression

**DATA ANALYSIS IS ACCELERATED BY OVER 5 TIMES WITH IMPROVED STORAGE PERFORMANCE**

After deploying Pure Storage FlashArray//M, FnGuide reduced the data replication time from 10 hours to less than 1 hour. The processing speed of Oracle Database has also improved by over 3 times, enabling at least 5 times faster data analysis and extraction. As a result, maintaining the latest data became easier, service delays were eliminated and customer experience was greatly improved.

“In the previous operating environment which used FC-based storage, we were having issues because it took more than half a day to replicate data. After successfully deploying Pure Storage FlashArray//M, we were able to reduce the replication time to less than an hour,” said Gwanhong Hwang at FnGuide.

**STORAGE STABILITY WAS DRAMATICALLY IMPROVED**

FnGuide stores, analyzes and develops data to provide useful financial information to their customers. As the systems perform real-time data processing and big data analysis in each step of those procedures, improving stability for financial data was a must for FnGuide.

FnGuide experienced dramatic improvement in the environment in terms of stability after implementing Pure Storage. Before, they had to go through disrupting storage disk replacement frequently. Now with Pure Storage, the company achieved 99.9999% availability, improving stability by over 5 times. The company has a stable data environment in place to provide customers with essential financial investment services.

**DATACENTER RACK SPACE AND ENERGY CONSUMPTION WERE SIGNIFICANTLY REDUCED WITH OUTSTANDING 3:1 DATA REDUCTION**

In addition, FnGuide obtained a 3:1 data reduction rate with data deduplication and compression. Based on that, the company was able to reduce data center rack space and energy consumption by about 80% and drastically reduced costs associated with maintaining the FC-based legacy storage environment.

**FUTURE PLAN**

FnGuide has secured a stable infrastructure and improved productivity with all-flash storage. The company is considering using all-flash storage for their other financial solutions including the risk management engine which is provided as a customer facing service.

**CALL-OUT QUOTES**

“Pure Storage allowed us to minimize the upfront capital cost while improving system performance and achieving the goals set with this infrastructure upgrade project. In our core services which provide customers with the financial investment products, the data processing speed is the most important feature. After moving the entire transactional portion of the system to Pure, we experience a significant improvement in providing real-time business information.”

- Gwanhong Hwang, Senior Researcher, FnGuide



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