



CASE STUDY

Financial services firm improves end-user trading experience with eXFlash™ DIMM technology

Solution Focus

- Financial services
- Database performance

Products

- 70 CA System x3850 X6
- 280 CA System x3650M5
- 20 CA eXFlash DIMM 400GB*
(ULLtraDIMM 400GB DDR3 SSDs)

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At SanDisk, we're expanding the possibilities of data storage. For more than 25 years, SanDisk's ideas have helped transform the industry, delivering next generation storage solutions for consumers and businesses around the globe.

Background

The customer is one of the leading brokers in the financial industry with the aim of providing superior local and overseas securities and futures trading services through various electronic channels, such as the Internet and through a Smartphone trading platform. The convenience of the company's trading and account management allows investors to access accounts and invest in the global markets—anytime and anywhere. The company also offers a comprehensive suite of products and services, including sales and trading of equities and structured products, investment advisory services, and private wealth management. The company is licensed in a number of regulated activities, such as dealing in securities and futures contracts, leveraged foreign exchange trading, advising on securities, and advising on futures contracts.

The Challenge

The customer has been experiencing significant business growth and needed to improve their customers' end-user experience. To accomplish this, the company determined that they needed to upgrade their trading system through the purchase of high-end rack servers, and high IOPS storage devices.

The Solution

The company evaluated two major OEM solutions, both that utilize PCIe flash cards. However, the customer selected Lenovo, because they demonstrated a better understanding of the customer's needs and the ability to solve the customer's trading platform performance issues. Lenovo has been the first to market with low-latency eXFlash DIMM technology.

Although the customer's OLTP SQL database requires high IOPS for random mixed reads and writes, the architecture does not require redundancy for data. Based on customer requirements, Lenovo implemented one 400GB eXFlash DIMM (ULLtraDIMM 400GB DDR3 SSD) in the SQL Server (x3850X6 and x3650 M5) because the eXFlash DIMM can provide impressive random read access performance. In addition, the product can provide low latency for write access.

The Result

Since the implementation of the eXFlash DIMM device, the customer's business system has experienced significant performance improvements. The system has not required any additional application or database performance tuning, reducing the risk for the customer.

* 1 GB = 1,000,000,000 bytes. Actual user capacity less.

The performance results and cost savings discussed herein are based on internal testing and use of ULLtraDIMM products. Results and performance may vary according to configurations and systems, including drive capacity, system architecture and applications.

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