



JD.COM 京东



Lenovo™

CASE STUDY

JD.com Seamlessly Handles Its Highest Site Traffic Ever with High IOPS Adapters

Solution Focus

- Retail
- MS SQL Server

“Before High IOPS adapters, our site crashed every time we had a big promotion. After we installed High IOPS adapters, our site experienced its highest traffic ever without a hitch.”

“Migrating our SQL Server databases to High IOPS adapters removed the disk bottleneck. The whole system is now more stable and nimble. Even the biggest promotion in JD.com history had no issues.”

Technical Principal, JD.com

The SanDisk® Solution

Eliminated site slowness and unresponsive servers by moving data off direct-attached storage shelves onto High IOPS adapters in mission-critical OLTP database servers.

Improvements Achieved

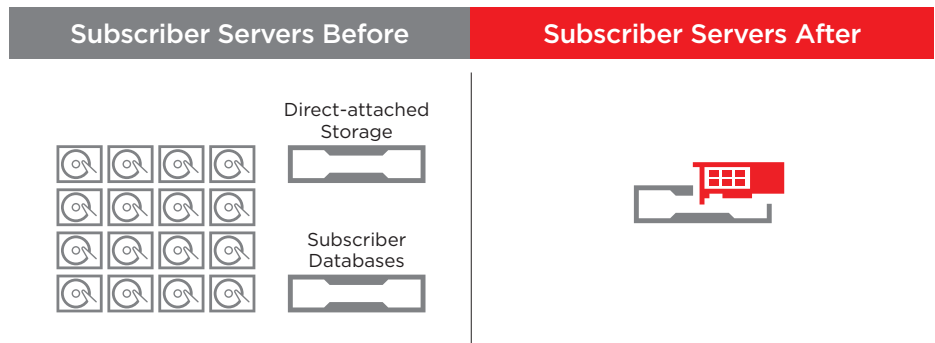
- 27x** performance density
- 3x** footprint reduction
- 9x** faster queries
- 10x** IOPS
- 3:1** server consolidation

The Bottom Line

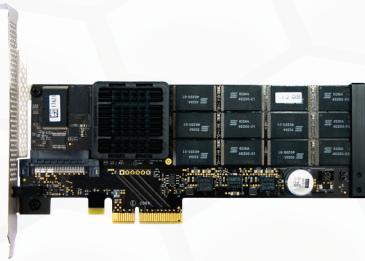
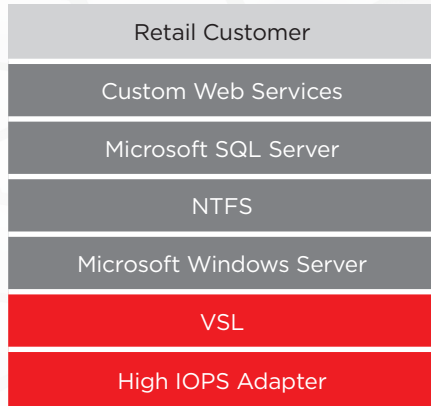
Higher performance with far less infrastructure:

- Eliminated lost sales from site outages and slow response times
- Footprint consolidation and increased server workload delivers ROI from savings on:
 - Software licenses
 - Storage upgrades
 - Monitoring and maintenance
 - Floor space
 - Power and cooling
- Deferred expensive planned SAN upgrade

3:1 OLTP Database Server Consolidation



SanDisk Powered Software Stack



High IOPS Adapter

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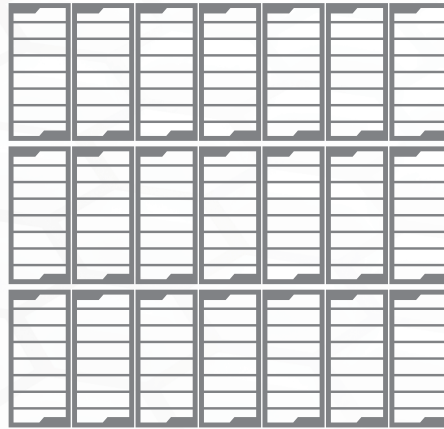
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SanDisk®
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At SanDisk, we're expanding the possibilities of data storage. For more than 25 years, SanDisk's ideas have helped transform the industry, delivering next generation storage solutions for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

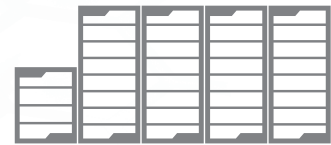
Subscriber Footprint Before



Database Servers

- Hundreds of 4U primary database servers
- 2U direct-attached storage array on each server

Subscriber Footprint After



- Consolidated x3850 X5 database servers 3:1
- Stored all business data on High IOPS Adapters
- Eliminated DAS arrays

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

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