JD.com Seamlessly Handles Its Highest Site Traffic Ever with Fusion ioMemory™ Solutions

Solution Focus
- Retail
- MS SQL Server

"Before Fusion ioMemory, our site crashed every time we had a big promotion. After we installed Fusion ioMemory, our site experienced its highest traffic ever without a hitch."

"Migrating our SQL Server databases to Fusion ioMemory 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 Fusion ioMemory products in mission-critical OLTP database servers.
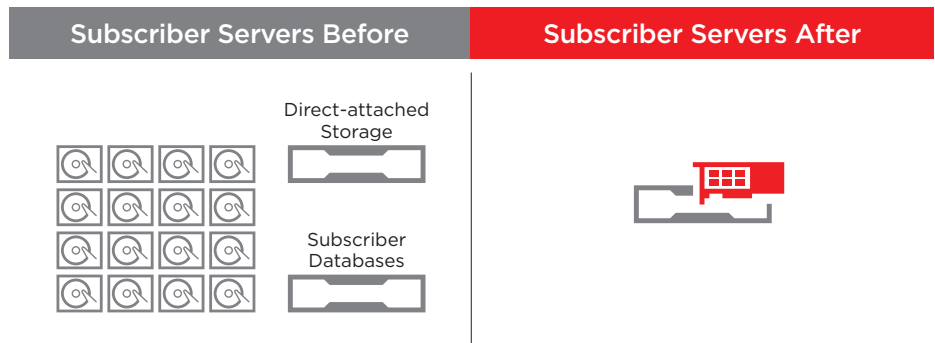
Improvements Achieved

27x performance density

9x faster queries

3:1 server consolidation

3x footprint reduction
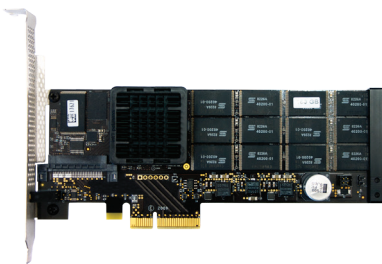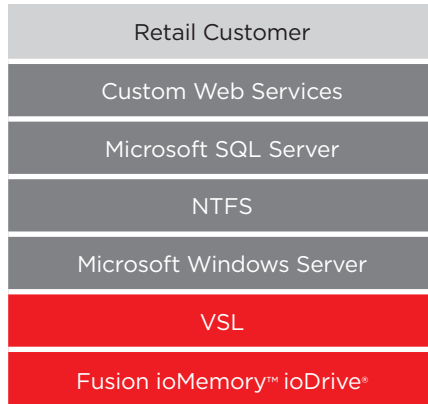
10x IOPS

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
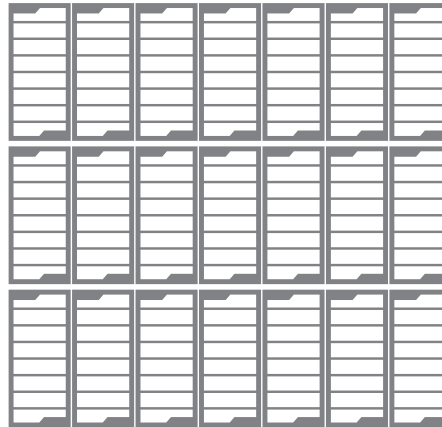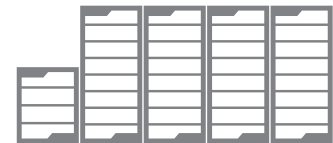
3:1 OLTP Database Server Consolidation

Subscriber Servers Before	Subscriber Servers After

Direct-attached Storage

Subscriber Databases

SanDisk Powered Software Stack

Retail Customer
Custom Web Services
Microsoft SQL Server
NTFS
Microsoft Windows Server
VSL
Fusion ioMemory™ ioDrive®

Fusion ioMemory™ - ioDrive®

Subscriber Footprint Before	Subscriber Footprint After

Database Servers

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

- Consolidated database servers 3:1
- Stored all business data on Fusion ioMemory ioDrive cards
- Eliminated DAS arrays

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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.