

# Nominee: ION Accelerator by Fusion-io

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## Nomination title: Fusion ION Accelerator

We live in a world with a never ending thirst for data. From the applications consumers use on smartphones to the business intelligence systems run by enterprises, these tools further drive the unprecedented data demand. People don't just want this data, they want it faster than ever before. From web page load times to urgent analytics reports, users are impatient and companies need to deliver data in a flash.

The Fusion ION Accelerator appliance has been developed to address growing data demands by maximising business critical application performance for data-intensive workloads, such as virtualisation, VDI and big data solutions.

The ION Accelerator is an all-flash shared storage solution built on the Fusion ioMemory platform. With broad high availability (HA), increased performance and scalability, as well as simplified sharing and manageability, ION Accelerator is an ideal flash-based storage consolidation solution for enterprises seeking to add flash memory acceleration to their databases and other mission critical applications. The HA support in ION Accelerator also provides the data availability database administrators require to ensure businesses can operate seamlessly while delivering breakthrough performance.

### ION Accelerator features:

- **Performance:** Up to 1.7 million random IOPS, 56 microsecond access latency, and 23GB/s bandwidth for transactional and sequential workload acceleration.
- **Density and Efficiency:** Incremental scalable storage of up to 32TB of non-volatile ioMemory. 1U – 4U form factors for power, cooling and space efficiency.
- **Flexibility:** Broad application support with multiple application deployment models and seamless integration into highly available, high-bandwidth Fibre Channel, InfiniBand or iSCSI environments.
- **Simplicity:** Easy to deploy, configure and manage. Optimised, fully redundant hardware with simplified management improves availability while eliminating complexity and simplifying ongoing supportability.
- **Flash durability:** Self-healing flash features from proven Fusion ioMemory technology, including Adaptive Flashback, protects data from flash media failures without loss of device, data or business continuity.

### ION Accelerator benefits:

- Application acceleration that handles the needs of the most demanding applications and user workloads to deliver more concurrent users, quicker response times and faster batch testing, processing and reporting.
- Seamless database integration with Oracle, Oracle RAC, SAP, SQL Server, MySQL, DB2, Informix, Sybase ASE, Sybase IQ and NoSQL in physical or virtual environments, providing persistent storage for complete databases or performance sensitive applications.
- End-to-end high availability against component, rack and building outages. ION Accelerator supports a broad range of high availability and multi-pathing features, non-disruptive servicing and end-to-end data integrity using T10 Protection-Information (PI) specification.
- Reduced total cost of ownership through improved infrastructure and operational efficiency that lowers overall datacentre costs.

The ION Accelerator regularly helps Fusion-io partners achieve world record benchmarks. In February 2013, HP achieved its sixth consecutive #1 HP VMmark world record. HP achieved all six #1 benchmarks using ION Accelerator as the all-flash shared storage system in the benchmark configurations. With simple, flexible deployment options, ION Accelerator provides high performance with extremely low data access latencies, cost-efficient density, and enterprise-grade reliability.

With ION Accelerator, customers are able to gain a distinct performance advantage across their business needs including virtualisation, streamlining, and accelerating access to data. Customers are deploying ION Accelerator to improve a broad range of virtualisation and other workload requirements, including transactional (OLTP and NoSQL) and business intelligence (data warehouse and OLAP) applications, allowing higher service levels and business productivity, despite budget reductions. Whether deployed as primary storage or as a top-of-rack solution with customer SAN, multiple ION Accelerators can be clustered and scaled to meet even the most I/O intensive workloads, enabling customers to gain new insight by improving application performance and shortening application response times, ultimately increasing their competitive advantage.

"Fusion's ION Accelerator has earned its place at the heart of our corporate infrastructure through a combination of its stunning performance, ease of use and ability to integrate seamlessly with our existing technology investments. ION has step changed the capability of our storage platform." — Nathan Smith, CEO Americas, Sysrepublic Inc

"We reached our 5x workload requirements, while significantly increasing the available performance. This will ensure applications remain fast and responsive as we grow." — Rudy Dellafiore, Director of IT, Vitacost

One of the largest healthcare providers in northern Europe is using ION Accelerator with Dell servers to store its electronic patient records. In its evaluation, the hospital noted that it required speeds that respond to queries as fast as an Internet search engine. The ease of installation with ION Accelerator made it simple for the hospital to accelerate its system and improve efficiency and save the valuable time of medical staff, allowing them to provide faster patient care.

An American online advertising analytics company is migrating its Oracle database to ION Accelerator to more rapidly evaluate ad placement, pricing and effectiveness. This responsiveness enables the analytics company to provide customers with critical business intelligence, enabling clients to quickly learn from campaigns that are working well and adjust those that need more fine-tuning.

ION Accelerator has also been selected by one of the world's largest air conditioning equipment manufacturers to meet its business requirements to adopt the highest performance solution available. The Asia-based company found that it would require more than 200 disk drives to meet its strict performance specifications. With ION Accelerator, the manufacturer is now able to provide breakthrough performance for its Oracle RAC database in just two 2U servers from IBM.

### Why nominee should win

- Fusion ION Accelerator regularly breaks world record benchmarks and during testing In February 2013, HP achieved its sixth consecutive #1 VMmark world record using ION Accelerator for performance.
- Reduced Total Cost of Ownership through improved infrastructure and operational efficiency.
- Delivers 25-40x application acceleration for demanding application and user workloads, allowing companies to easily integrate high performance flash into its existing shared storage infrastructure.
- Transforms industry standard servers into application acceleration appliances.