



# Software-defined Storage Platform

The availability, performance, agility and TCO needed to meet the demands of next generation storage

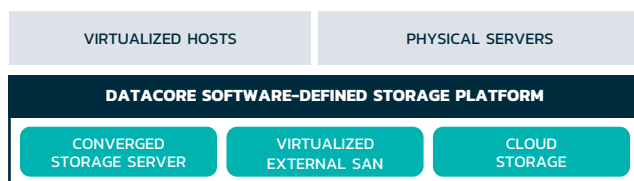
When it comes to IT infrastructure, storage has fallen off the pace. Server performance has dramatically increased, but storage just hasn't kept up, causing applications to slow down. Poor storage and I/O performance are being disguised by techniques that end up spreading workloads unnecessarily across many machines under the excuse of scaling out. In addition, clustered, highly available servers have a Recovery Time Objective / Recovery Point Objective (RTO/RPO) measured in seconds, whereas recovery from storage failures may take several minutes to days of manual processes to restore data from a backup copy or, worse, a Disaster Recovery (DR) site. Lastly, a diverse mix of standardized servers can be managed from a single console, while different storage products and brands each have their own management and can't work together, even if they are from the same vendor.

The DataCore™ SANSymphony™ enterprise-class Software-defined Storage (SDS) platform provides a high-performance, highly available and agile storage infrastructure with the lowest Total Cost of Ownership (TCO).

Compared to enterprise storage arrays and other SDS products, DataCore offers the following advantages:

- **Go faster:** Faster I/O for databases, email, VDI and line of business applications means more transactions processed, more data analyzed quicker and increased customer satisfaction, leading to more revenue.
- **Always on:** Highly-available infrastructure means applications are always up, reducing business disruptions and lost sales.

The net result is faster performance, higher availability and greater cost savings across your company through consolidation.



- **Save money:** Run more workloads with better performance and availability by pooling diverse storage assets, deferring hardware refreshes and simplifying administration. This results in remarkable cost savings in both acquisition (CAPEX) and ongoing operations (OPEX, power, cooling and space).
- **Less risk:** High-performance, highly available, agile infrastructure means efficient operations, reduction in disruptions to operations and productive users (employees, customers and partners).

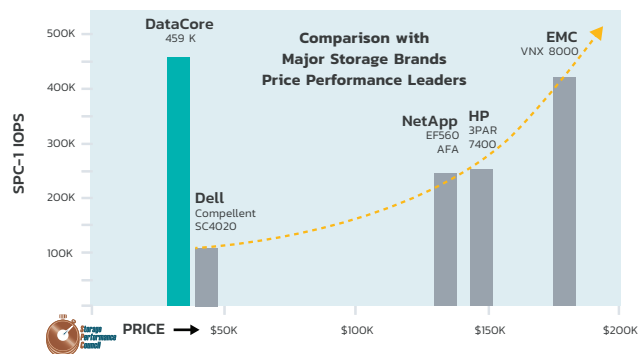
## DATACORE™ SANSYMPHONY™ SOFTWARE-DEFINED STORAGE PLATFORM

DataCore SANSymphony infrastructure software takes isolated storage devices, sometimes spread between different locations, and places them under one common set of enterprise-wide services. It pools their collective resources, managing them centrally and uniformly despite the differences and incompatibilities among manufacturers, models and generations of equipment in use. Key features include:

### Highest Data Performance

- **Fastest response time in the industry:** Utilizing DataCore™ Parallel I/O Technology, proven by Storage Performance Council SPC-1 benchmarks<sup>1</sup>, SANSymphony is 3-10x faster than any other storage infrastructure product. As a result, applications' data can be accessed, updated and stored faster, for more timely decisions and actions.
- **World leader in price performance:** At least 66% better than the next closest competitor, as shown by the SPC-1 benchmark.

### DataCore Price Performance is Off the Curve



<sup>1</sup> [http://www.storageperformance.org/results/benchmark\\_results\\_spc1\\_top-ten](http://www.storageperformance.org/results/benchmark_results_spc1_top-ten)

## Highest availability with multi-layered protection

- Zero Touch, Zero Downtime means that data is always available, including across a stretch cluster. Storage failures are handled automatically, without any downtime, as is failback.
- For DR purposes, an efficient asynchronous replication scheme assures another copy of the data is available hundreds of miles away for recovery from large-scale regional disasters.
- To protect from ransomware, virus outbreaks and malware, Continuous Data Protection (CDP) keeps all changes up to the previous 2 weeks so applications can be rolled back before the infection occurred.

## Lowest TCO

- Single pane management provides a common provisioning and monitoring framework across all storage devices, decreasing time spent on storage administration.
- Hardware-independent storage services ensure heterogeneous storage devices benefit from a consistent set of advanced services, including support for OpenStack and VVols.
- Freedom to substitute different hardware from competing suppliers when appropriate results in a cost-effective solution, unlike competitors that restrict choice.

| VIRTUALIZED HOSTS                                 |                          | PHYSICAL SERVERS         |                           |                   |                           |
|---|--------------------------|--------------------------|---------------------------|-------------------|---------------------------|
| <b>DATAcore SOFTWARE-DEFINED STORAGE PLATFORM</b> |                          |                          |                           |                   |                           |
| AVAILABILITY                                      |                          | PERFORMANCE              |                           | EFFICIENCY        |                           |
| Synchronous Mirroring                             | Asynchronous Replication | Caching                  | Auto-tiering              | Storage Pooling   | Thin Provisioning         |
| CDP   | Snapshots / Backups      | Random Write Accelerator | Quality of Service (QoS)  | Data Migration    | Deduplication/Compression |
| MANAGEMENT  |                          |                          |                           |                   |                           |
| Centralized Management                            | Analysis & Reporting     | Wvols                    | NAS/SAN (Unified Storage) | Cloud Integration |                           |

## Risk Mitigation

- Data can be migrated to different storage devices without disrupting applications' access to data, minimizing risk.
- New technology can be integrated seamlessly, without requiring downtime. This minimizes the uncertainty associated with deploying new technologies and makes storage devices completely interchangeable.

## DATAcore CUSTOMERS REPORT UP TO



75% reduction in costs  
Lower Cost of Ownership



10x performance increase  
Faster Applications



100% reduction in storage-related downtime  
Higher Availability



90% decrease in time spent on routine storage tasks  
Greater Productivity

Source: TechValidate  
www.techvalidate.com



### CASE STUDY: REDUCED DOWNTIME AND PERFORMANCE GAINS IN HEALTHCARE

Englewood Hospital and Medical Center is focused on delivering safe, high-quality and efficient care to their patients. There is zero tolerance for error, from the operating room to the server room, with greater expectations for IT. As Englewood virtualized their servers, they were seeing performance bottlenecks in their applications. In addition, since they ran 24x7, storage downtime, both planned and unplanned, was disruptive to their operations. Additionally, they were expecting a 10x growth in data over 4 years.

To solve their problems, Englewood deployed DataCore SANSymphony SDS platform. The most immediate benefit was the increased performance of their applications. Their Exchange environment responded significantly faster, while their Payroll system ran in half the time and their backups went from 8 hours down to 3 hours. They've also seen the benefit of running in an active-active configuration, as their storage downtime has been eliminated, allowing them to deliver patient care seamlessly and without interruption. Lastly, Englewood has been able to better utilize their existing capacity, extending the life of their current storage assets and driving down the costs of storage.

For additional information, please visit [datacore.com](http://datacore.com) or email [info@datacore.com](mailto:info@datacore.com)



© 2018 DataCore Software Corporation. All Rights Reserved. DataCore, the DataCore logo and SANSymphony are trademarks or registered trademarks of DataCore Software Corporation. All other products, services and company names mentioned herein may be trademarks of their respective owners.