

# 99.9999 percent data availability

## HPE 3PAR Get 6-Nines Guarantee Program

Maintaining service levels in the event of failure is critical, whether using midrange, high-end, or all-flash storage. Small enterprises to global service providers can now ensure Tier-1 storage availability.

### No compromises

HPE 3PAR StoreServ Storage offers a modern, proven, highly available, Tier-1 architecture.

### Guaranteed availability

Only HPE 3PAR StoreServ Storage offers a 6-Nines data availability guarantee program across midrange, all-flash, and high-end storage arrays for your mission-critical applications.

### Do you know how to maintain 99.9999 percent availability for your mission-critical applications?

#### Get a free high-availability assessment and HPE will show you how to:

- Order the ideal HPE 3PAR StoreServ system for mission-critical applications
- Deploy high-availability features
- Implement HPE 3PAR StoreServ high-availability best practices
- Maintain resiliency over the life of the system



### Prepare for the unexpected

The introduction of virtualization and cloud/ITaaS into your data center requires you to deliver predictable IT service levels in an unpredictable world. At the same time, loss of data access means loss of productivity—which means lost time and money. You need highly available storage that can store and protect data for mission-critical applications with the agility required to handle the unexpected.

Traditional storage vendors, and first-generation flash providers, often promote their Tier-1 storage system as delivering “five-nines,” or 99.999 percent, uptime. But suffering any amount of lost data access can impact

your revenue, reputation, and customer satisfaction—whether those customers are internal or external.

### Storage built for the modern data center

Transition from complicated, traditional storage systems to a modern Tier-1 storage architecture designed for today’s mission-critical applications and environments. With HPE 3PAR StoreServ Storage, you don’t have to sacrifice high availability and Tier-1 resiliency to achieve the agility and efficiency a modern data center demands.

## Solution brief

HPE 3PAR StoreServ Storage offers a single architecture and OS across midrange, all-flash, and high-end storage arrays. The same rich set of data services across the portfolio support Tier-1 resiliency and quality of service (QoS) controls to support mission-critical applications suited to many different environments and budgets.

HPE 3PAR StoreServ Storage offers agile and highly efficient storage infrastructure that allows you to:

- Maintain 99.9999 percent data availability<sup>1</sup>
- Deliver uncompromising QoS levels for even the most demanding workloads
- Accelerate performance with a flash-optimized architecture including inline deduplication<sup>2</sup>
- **Cut capacity requirements by up to 75 percent—guaranteed**,<sup>3</sup> and without sacrificing performance
- Reduce administration and provision virtual machines 8X faster with autonomic management
- Seamlessly refresh storage and load balance across arrays with peer-based federation

<sup>1</sup> Qualification for the HPE 3PAR Get 6-Nines Guarantee Program is subject to your compliance with the Get 6-Nines Guarantee Terms and Conditions, which will be provided by your HPE Sales or Channel Partner representative.

<sup>2</sup> Inline deduplication applies to HPE 3PAR StoreServ All Flash Arrays.

<sup>3</sup> Qualification for the HPE 3PAR Get Thinner Guarantee Program is subject to your compliance with the Get Thinner Guarantee Terms and Conditions, which will be provided by your HPE Sales or Channel Partner representative.

<sup>4</sup> Based on November 2013 analysis by HPE comparing provisioning time of four LUNs to a cluster of VMware ESX® hosts and creating a consistency group snapshot of the four LUNs using similar steps and host configuration for HPE 3PAR StoreServ 7400 vs. EMC VNX5700.



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### The HPE 3PAR Get 6-Nines Guarantee

By deploying any new four-node or larger HPE 3PAR StoreServ system and following best practices outlined in the Get 6-Nines Guarantee Program, you get a highly available storage system with protection for your mission-critical data. Whether this allows you to confidently consolidate costly legacy storage systems, expand the deployment of mission-critical applications, or accelerate application performance, you'll get peace of mind knowing your data access is protected.

We know high availability is crucial to your business, and HPE is committed to standing behind our HPE 3PAR StoreServ Storage arrays to give you the assurance of guaranteed high availability. In fact, we're so certain HPE 3PAR StoreServ Storage will provide you with high availability that goes beyond what competitive storage offerings can deliver that we're willing to back it up. If you experience less than 99.9999 percent availability—while following the terms and conditions of the Get 6-Nines Guarantee Program—HPE will work with you to resolve the issue and provide three additional months of support for free.

### HPE technology is the key

Built on more than a decade of innovation and proven enterprise customer successes, HPE 3PAR StoreServ Storage delivers guaranteed resiliency and technology features that exceed the critical Tier-1 storage requirements of the most demanding environments. HPE 3PAR StoreServ features leading-edge technology that helps you protect access to your data and eliminate the causes of unplanned downtime.

### Minimize performance impacts

HPE 3PAR Persistent Cache eliminates performance impacts caused by a node outage by ensuring your mission-critical applications do not experience degraded performance that frequently leads to failures or other unexpected behavior.

### Eliminate failures

HPE 3PAR StoreServ Storage eliminates all active single points of failure via redundant components and power paths. A tightly coupled cluster allows each volume to be active on all nodes at all times. In addition, leading support and phone-home capabilities, coupled with a dedicated service processor, notify you and HPE of system alerts to proactively address potential issues before a failure can occur.

### Eliminate downtime for maintenance and software upgrades

HPE 3PAR Persistent Ports provide non-disruptive online software upgrades on HPE 3PAR StoreServ Storage without relying on multi-pathing software to initiate failover. This ensures that host paths remain online throughout the software upgrade process.

### Minimize human error

HPE 3PAR StoreServ Storage eliminates manual administration with self-configuring, self-provisioning, and self-optimizing automation. These features not only provide 8X faster provisioning,<sup>4</sup> but also minimize the opportunity for human error.

### Benefit from proven best practices

By following the set of specific best practices outlined in the Get 6-Nines Guarantee Program, you can rest assured your system is configured to provide uninterrupted access to your storage data and meet the needs of your workloads. These best practices ensure your system remains available and your data access is protected, even in the event of a component failure or other support issue.

Learn more at  
[hpe.com/in/en/storage/3par](http://hpe.com/in/en/storage/3par)

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