



# HPE 3PAR OPERATING SYSTEM SOFTWARE

## Storage Device Management Software



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### WHAT'S NEW

- Quality of Service with HPE 3PAR Priority Optimization Software
- Peer Persistence support for quorum witness
- All Flash HPE 3PAR StoreServ 7450
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- Data at Rest Encryption
- Web services API expansion

### OVERVIEW

Supported across all HPE 3PAR StoreServ Storage platforms, HPE 3PAR Operating System Software utilizes advanced internal virtualization capabilities, features, and tools to increase storage management efficiency, capacity utilization, and performance in enterprise and cloud data centers. The OS simplifies storage management by handling provisioning and change management autonomically, intelligently, at a subsystem level, and without administrator intervention.

Autonomic provisioning features eliminate traditional storage planning by delivering instant, application-tailored provisioning. Fine-grained virtualization of lower-level components and wide striping of data ensure that service levels remain high and predictable, even as the use of the system grows or in the event of a component failure. Industry leading ease of use is delivered through the simple, unified HPE 3PAR Management Console and the powerful, scriptable HPE 3PAR Command Line Interface (CLI).

## FEATURES

### **Autonomic Provisioning Features Eliminate Traditional Storage Planning**

HPE 3PAR Rapid Provisioning is an HPE 3PAR Operating System Software feature that delivers instant, application-tailored volume provisioning. Provisioning is managed intelligently and autonomically while traditional storage planning and change management are reduced.

HPE 3PAR Autonomic Groups is a feature designed to simplify storage provisioning for clustered and virtual server environments. Use of Autonomic Groups reduces opportunities for human error by reducing manual repetition of tedious commands, making the provisioning process more reliable.

The HPE 3PAR Scheduler feature enhances management automation, reduces administration time, and decreases the chance of administrative error by giving users full control over automated virtual copy snapshot creation and deletion.

### **Simple, Powerful Administration Tools Deliver Industry-Leading Ease Of Use**

The unified HPE 3PAR Management Console simplifies storage management by placing everything you need to administer and optimize your entire HPE 3PAR StoreServ Storage deployment in a single window, including remote replication to disaster recovery sites.

The scriptable HPE 3PAR Command Line Interface (CLI) simplifies storage management by giving you powerful customization capabilities that are simple to configure and which reduce the need for extra management tools and costly consulting services.

SNMP and the Storage Management Initiative Specification (SMI-S) enable open, standards-based management.

Access Guard is an HPE 3PAR Operating System Software feature that delivers user-configurable volume security at logical and physical levels that enables you to secure hosts and ports to specific virtual volumes.

Native support for Lightweight Directory Access Protocol (LDAP) within the HPE 3PAR Operating System Software delivers centralized user authentication and authorization using a standard protocol for managing IT resources.

### **Advanced Virtualization Capabilities Deliver High And Predictable Service Levels**

The HPE 3PAR Operating System Software stripes data in a massively parallel and fine-grained fashion across all internal resources. This enables service levels to remain high and predictable as the use of the system grows or in the event of a component failure.

HPE 3PAR Persistent Cache maintains service levels by preserving write-caching through rapidly re-mirroring cache to the other nodes in the cluster in the event of a cache or controller node failure.

### **Data Protection and Copy Space Reclamation Features Improve Capacity Utilization**

HPE 3PAR RAID MP (Multi-Parity) uses Fast RAID 6 and the accelerated performance of the HPE 3PAR ASIC to prevent data loss as a result of double disk failures. Performance levels are maintained within 15% of RAID 10 and with capacity overheads comparable to popular RAID 5 modes.



HPE 3PAR Full Copy is an HPE 3PAR Operating System Software feature that allows you to create thin-aware, point-in-time clones with independent service level parameters which can be rapidly resynchronized with base volumes as needed.

The HPE 3PAR Thin Copy Reclamation feature keeps your storage lean and efficient by reclaiming unused space resulting from the deletion of virtual copy snapshots associated with virtual copy and remote copy volumes.

## Technical specifications

## HPE 3PAR Operating System Software

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### Supported hardware environment

HPE 3PAR Storage systems, HPE 3PAR StoreServ 7000 Storage

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For additional technical information, available models and options, please reference the [QuickSpecs](#)

## HPE POINTNEXT SERVICES

[HPE Pointnext Services](#) brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

### Operational Services from HPE Pointnext Services

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

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- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

### Other related services

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

**Defective Media Retention** is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

## HPE GREENLAKE

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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