HP P6000 ENTERPRISE VIRTUAL ARRAY SOFTWARE

Data sheet

HP P6000 EVA storage software and disaster-tolerant solutions help enable high-availability for your application environments. These solutions, simplify storage management activities, improve capacity utilization, automate backups and data protection, and utilize your IT staff and resources better.

Storage device management software
HP P6000 Command View software

Discover, monitor, and configure your HP P6000 EVA disk arrays from a single Web-based console

HP P6000 Command View software is a comprehensive software suite used to simplify management of all HP Enterprise Virtual Array (EVA) products. Its ease of use makes this software attractive for SMB and enterprise market applications. Provides efficient capacity utilization with thin provisioning and effective tiered storage implementation using dynamic LUN/RAID migration. Also includes new Performance Advisor software for performance monitoring and troubleshooting on P6000 EVA arrays.

With its simple provisioning capacity you can easily create virtual disks (Vdisks) and grow or shrink LUNs, all without downtime. P6000 Command View software helps you replicate data with snapshots for immediate use. Provision storage for higher capacity utilization at reduced costs with reservationless thin provisioning. Or change the characteristics of an existing Vdisk using Dynamic LUN/RAID migration to quickly meet changing business needs. Trust that your data is secure with the industry-leading security features.

Features and benefits

Reduce IT costs and management complexity

- **Comprehensive software for P6000 EVA management**: HP P6000 Command View software suite includes everything needed for managing P6000 EVA from provisioning data quickly, monitoring and troubleshooting performance, adjusting LUNs, and creating Vdisks and RAID groups with just a few mouse clicks.

- **Reduce management costs**: Flexible connectivity with expanded multi-SAN discovery increases value and lowers management costs compared to managing traditional arrays. This software includes a powerful scripting utility for documenting and automating P6000 EVA configuration tasks.

- **Flexible connectivity with multi-SAN discovery**: Provides lower management costs compared to managing traditional arrays.

- **Deployment options**: Aggregate server-based management and array based management into a single pane of glass user interface. New support for disk drive code load with array-based management.

- **Storage capacity**: Optimize storage capacity with reservationless thin provisioning.

Easily provision your P6000 EVA storage and replicate your data

- **Quickly add physical disk drives**: Exact capacity is available for immediate use

- **Easy creation of Vdisks**: Add capacity without downtime

- **No application downtime**: Dynamically grow, shrink or move LUNs between disk groups

- **Instant data replication**: Snapshots and Snapclones available for immediate application usage

Industry-leading security features

- **Dual access levels**: Two levels of access; administrator (read/write) and user (read-only)

- **Robust logging support**: Audit-logging support for user actions and events that change system state

- **Protection against unauthorized access**: LUN security

HP P6000 Command View software—www.hp.com/go/p6000cvs
HP P6000 Performance Advisor software

Monitor performance of your HP P6000 EVAs from a simple integrated interface

HP P6000 Performance Advisor software provides an easy-to-use performance monitoring and troubleshooting interface for the HP P6000 EVA family. Performance Advisor software is well integrated with the HP P6000 Command View software for a single pane of glass management and performance monitoring. Performance Advisor software can monitor performance on both the P6000 EVA and the prior generation EVA 4x00, 6x00, and 8x00 through a single interface. The software has an intuitive user interface and offers capabilities such as dashboard display, key metrics monitoring, threshold summary and alerting, and historical performance charts and reports.

Features and benefits

- **Dashboard for P6000 EVA performance**: Integrated performance monitoring view of overall storage system and individual performance object types. The drill-down capability helps further analyze performance along with user-defined key performance indicators.
- **Key metrics**: View preconfigured charts and statistical info for selected counters for each performance object.
- **Threshold monitoring and notification**: Monitor performance object metrics against set threshold values. Also receive SNMP/SMTP notification for threshold-monitored objects.
- **Customizable charts for live and historical data**: View live and historical data for multiple metrics in a single or multiple charts.
- **Customizable reports for further analysis**: Generate, view, and save reports in PDF or CSV format for various performance metrics.

HP P6000 Performance Advisor software—
www.hp.com/go/p6000pa

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Figure 1: HP P6000 Command View software—Simple to manage

Figure 2: Performance Advisor software—Single pane of glass management and performance monitoring
HP P6000 SmartStart software

Wouldn’t it be invaluable to have a simple tool that walks you through the setup of a new storage system?

HP P6000 SmartStart software is a configuration utility that simplifies installation for the HP P6000 EVA family. Installing HP P6000 Command View software, assists with the initial provisioning of new storage. Easy-to-follow instructions with on-screen help allow storage setup with a few mouse clicks. The P6000 EVA family is known for its ease of use. HP P6000 SmartStart software continues that tradition by further simplifying the setup for new users of the P6000 EVA family of storage arrays.

Features and benefits

• **Simplified setup with on-screen help:** Comprehensive assistance at every step of the installation and setup process for HP P6000 Command View software.

• **Help for novice P6000 EVA users in a Windows®, VMware, or Linux environment:** HP P6000 SmartStart software is designed specifically for self-installation of P6000 EVA management software on a Windows, Linux, or VMware management server.

• **Detailed driver installation support:** After installing the management software, HP P6000 SmartStart software assists in HBA and Multipath I/O driver installation and Multipath Storage System Scripting Utility (SSSU) installation, used for custom storage actions.

• **Efficient storage presentation:** HP P6000 SmartStart software assists with the storage initialization process, creating LUNs, provisioning the storage, and then presenting it to the server application.

HP P6000 SmartStart—[www.hp.com/go/p6000smartstart](http://www.hp.com/go/p6000smartstart)

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Adaptive provisioning

HP P6000 Thin Provisioning software

Purchase only the storage capacity needed today

HP P6000 Thin Provisioning software provides the ability to create a Vdisk, such that the application sees more capacity available than is physically allocated by the array. This provides an ideal solution to combat the challenges of storage sizing and management. P6000 EVA thin provisioned Vdisks, once defined, automatically grow over time, and allocate additional physical disk space only when there is a requirement for more storage. As Vdisks get provisioned based on requirements, Vdisk utilization rates are exceptionally high. The combined efficiency of a high-utilization rate and on-demand provisioning means that disk drive purchases can be deferred, reducing CAPEX. Also, the OPEX associated with power and cooling and floor space requirements can be reduced.

The P6000 EVA continues to provide high performance through wide striping of data across the physical disks in a disk group.

Together, thin provisioning and wide striping deliver an easy-to-manage, cost-effective, and high-performance solution.

Such just-in-time provisioning coupled with appropriate monitoring capability means that a measurable and an accessible amount of unused storage capacity is always held in reserve. With Vdisks, managers know what they have in use and what is being held in reserve, and can plan more efficiently.

Features and benefits

• **Lower CAPEX:** Optimizing initial capacity means that newly purchased storage systems require less initial storage, presenting an opportunity to defer capital expenditure.

• **Enhance disk storage:** Vdisks share the same physical space with a virtualized storage pool, allowing multiple servers and applications to access the data, maximizing the use of disk capacity, eliminating storage silos and stranded storage.

• **Easy to configure and manage:** Thin provisioning on the P6000 EVA is a single attribute that is enabled on a Vdisk—there are no new object types to manage. Standard Vdisks and thin provisioned Vdisks can be mixed in the same disk group.

• **Better monitoring and control:** Thin provisioning on the P6000 EVA provides multiple monitoring functions and alerts to avert the array from entering an over-committed state.

• **Greener IT:** Deferring disk capacity purchase and allowing more servers to share a single thin-provisioned storage system encourages storage system consolidation, and saves power and cooling costs.
HP Dynamic Capacity Management (DCM) software provides a comprehensive solution that automates storage provisioning and improves capacity utilization for the HP P6000 EVA. It uses advanced automation to “right-size” the supported file system and the Vdisk storage volume to the needs of an application. This dramatically improves capacity utilization by allowing the administrator to simply specify a capacity utilization range for each Vdisk. In some cases, HP DCM software can offer more than double storage utilization when compared to traditional storage provisioning methods, where utilization may be as low as 20 to 40 percent.

With its wizards and advanced automation, configuration of HP DCM software policies can be done in seconds. The simple “set and forget” provisioning not only reduces the resource cost of ongoing storage provisioning, but also allows for the potential deferment of additional capacity purchases due to increased storage utilization. This also helps to reduce the operational costs of powering and cooling unnecessary storage while helping enterprises lower their carbon footprint.

How P6000 Thin Provisioning software differs from Dynamic Capacity Management software

DCM is not a thin provisioning product; rather, it is integrated with the server’s operating system to provide the capability to shrink and grow Vdisks. DCM automatically sets the size of the P6000 EVA storage volume according to the needs of the application.

While DCM and thin provisioning on the P6000 EVA share a common objective—reducing stranded capacity in the array—thin provisioning differs from DCM in several ways. These differences are outlined in the following table.

<table>
<thead>
<tr>
<th>Dynamic Capacity Manager</th>
<th>Thin Provisioning</th>
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</thead>
<tbody>
<tr>
<td>Host agent required for the file system</td>
<td>Host agent not required</td>
</tr>
<tr>
<td>OS-dependent</td>
<td>OS-independent</td>
</tr>
<tr>
<td>Resident on the application server</td>
<td>Available directly through the array</td>
</tr>
<tr>
<td>Requires partition records to change LUN sizes</td>
<td>Automatically allocates space within the LUN on demand</td>
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Storage replication software

HP P6000 Business Copy software

Combine management simplicity and advanced local replication technologies to improve application availability and reduce the backup window for the HP P6000 EVA

HP P6000 Business Copy software, an array-based application, creates, manages, and configures local replication across the P6000 EVA product family, to meet business continuity and regulatory requirements. It utilizes the powerfully simple HP Replication Solutions Manager (RSM) user interface. P6000 Business Copy software shares RSM with HP P6000 Continuous Access software. HP RSM manages all local and remote replication features across the full P6000 array storage family. The combination of P6000 Business Copy software, unique Snapclone, and Vsnap local replication technologies with an unparalleled easy-to-use RSM interface allow businesses to achieve new IT efficiencies. With the new instant restore capability, enterprises can now quickly and easily restore a source volume, should it become corrupt.

HP P6000 Business Copy software offers easy replication management, resulting in business continuity. It is:

- Less expensive through faster, automated space-efficient methods
- More accessible to other groups that can non-disruptively use production data for other key business activities
- More efficient with the ability to move data across tiers of storage as business value dictates
- Less labor-intensive, offering a much greater value to IT and its resources
Features and benefits

Ease of use

• Simple to manage and configure: HP P6000 Business Copy software uses an advanced management interface, where users can quickly configure and manage local replication with less effort.

• Dynamic data movement: Migrate data as business needs dictate without application disruption, using P6000 Business Copy Dynamic LUN/RAID migration feature.

• Advance replication technologies: Vsnap, Snapclone, and MirrorClone provide fast, non-disruptive point-in-time data copies.

• Reduce TCO: Dynamic LUN/RAID migration delivers one-step storage tiering, reducing the expense of maintaining explosive growth of data.

• Simply assign disk group and RAID to match protection levels to business value: Application availability is improved through non-disruptive restore of online volumes.

• Flexible and versatile: Operations are improved by allowing extended access to non-disruptive, read/write copies of production data to other users and servers.

Cost-effective business continuity solution

• Quickly restore online volumes: Customers can quickly recover a corrupted Vdisk.

• Instant Snapclones and Snapshots: Snapclones provide the unique ability to allow immediate access to clones. Vsnaps are true space-efficient snapshots that allocate space as needed. Both technologies provide the optimum use of storage capacity.

• Cost-effective business continuity: Accelerated ROI is achieved through advanced replication technologies that use storage capacity wisely while protecting your applications.

Advanced replication technology

• Match replica protection level to business need: Create a Vsnap or snapshot of a source and choose to keep it at the same RAID level. Choose a different RAID and place it in a different disk group based on business needs. Snapclones can be presented to different disk groups including mid-line drives.

• MirrorClone with fast resync: Pre-normalize a mirror and then fracture it to create an instantaneous byte-for-byte clone. MirrorClone also maintains its relationship with the source volume accelerating the re-sync time.

HP P6000 Continuous Access software—www.hp.com/go/p6000cas

HP P6000 Business Copy software—www.hp.com/go/p6000bcs

HP P6000 Continuous Access software

Protects valuable data by replicating from one HP P6000 EVA to another—providing advanced disaster recovery with ease of management.

Do you need to plan for advanced disaster recovery with simple configurations and management? HP P6000 Continuous Access software provides an array-based application that uses advanced replication technologies to replicate data over distances between the HP P6000 EVA systems. It utilizes a powerful simple GUI provided by RSM software to create, manage, and configure remote replication on the entire HP P6000 EVA family of storage arrays. With the combination of unique remote replication technologies and the unparalleled easy-to-use RSM software interface, enterprises can be confident their information is protected in the event of a disaster. Furthermore, P6000 Continuous Access software provides the necessary components to solve enterprise business continuity objectives in a cost-effective and easily deployable package.

Features and benefits

Advanced disaster recovery

• Business continuity: HP P6000 Continuous Access software helps enable compliance to business continuity and regulatory goals. Using advanced replication technologies, information is protected from disaster or unplanned downtime.

• Integrates with disaster tolerant solution: Provides a fully automatic failover/failback of storage and servers by integrating with disaster tolerant solutions such as HP Cluster Extension software, HP Serviceguard Metrocluster, and HP Serviceguard Continentalclusters products.

Flexible and versatile

• Both synchronous and asynchronous replication modes: P6000 Continuous Access software offers both synchronous and asynchronous modes of data transfers. These two replication modes provide flexibility in recovery time and recovery point objective planning.

HP Replication Solutions Manager software

HP Replication Solutions Manager software is a recovery solution for business application data designed to improve the efficiency of your IT resources.

Simplify the way you replicate, protect, and share data in HP P6000 EVA—reducing the time, number of clicks, and steps required for configuration.

Need a simple way to replicate data between your HP P6000 EVA systems? HP RSM software provides a powerful simple graphical user interface (GUI) to create, manage, and configure remote/local replication on the entire HP P6000 EVA family in RSM. With P6000 Business Copy software and P6000 Continuous Access software, it provides a unique, cost-effective disaster recovery solution, with less effort to configure and offering more value to IT and its resources.

Automated scripts, wizards, and the Interactive Replication Topology Viewer reduce complexity and provide greater flexibility of executing tasks.

Features and benefits

Simple to manage and configure

• Simple security model: The RSM software offers a simple security model that allows role-based operating system authentication and user administration with audit capabilities.

• Simple management software: HP Replication Solutions Manager software offers a simple control point that utilizes job engines, wizards, and host integration and an Interactive Topology Manager that reduces workload and errors, when configuring HP P6000 Continuous software.
Flexible and versatile

- **Support full P6000 EVA product family**: A single management interface supports the full P6000 EVA product family
- **Unified management interface**: RSM provides a unified management interface that integrates with HP P6000 Business Copy software and HP P6000 Continuous Access software for local and remote replication

Quick recovery solutions

**HP Data Protector software: Zero Downtime Backup and Instant Recovery**

HP offers solutions that protect your valuable information against the threat of downtime—whether planned or unplanned—making your operations resilient, regardless of external or internal events.

HP Data Protector increases the flexibility of the data protection process with more disk-based recovery options for tiered architectures—all while keeping costs low. Zero Downtime Backup and Instant Recovery (ZDB/IR), components of HP Data Protector software, automate restoration of applications such as Exchange, Microsoft® SQL, SAP, and Oracle in the event of failure or corruption and restores data to the moment before an outage. Powered by HP Data Protector software technology, these software components can be used in a Data Protector backup and recovery environment, or as a standalone solution to augment your existing backup software strategy by delivering application-aware data recovery. Data Protector Instant Recovery functionality is enhanced on HP P6000 EVA.

In Windows® environments, Volume Shadow Copy Service (VSS) provides the means to create online point-in-time copies of open files from a file server or backup application, or within Exchange or Microsoft SQL application environments. Zero Downtime Backup integrates with VSS to make non-disruptive, point-in-time copies of databases for down-to-the-second recovery, not hours as required by traditional recovery from tape. A single deployment supports Microsoft-compliant quick recovery using the VSS framework for Exchange and Microsoft SQL with HP P6000 EVA disk arrays.

Features and benefits

- **Down-to-the-second recovery**: Improve application availability by creating volume shadow copies of application databases while the application is still running. You can also experience down-to-the-second recovery rather than hours, as in traditional recovery from tape, with recovery-ready copies stored within the disk array.
- **Disk-to-disk reliability**: Access an array-based (disk-to-disk) solution for an accelerated, more reliable recovery process. You can obtain data-consistent, zero-downtime, point-in-time copies with database integrity check to detect potential errors or corruption.

- **Pinpoint restoration**: Create point-in-time copies of application databases and allow recovery through the log file beyond the time of the last shadow copy. You can also restore it to a recovery point objective of zero (RPO = 0) or stop short of any corruption.

Disaster tolerance solutions

**HP Cluster Extension software (CLX)**

HP Cluster Extension software is full-site disaster tolerance software solution designed for the midrange storage or tiered enterprise storage markets. HP CLX specifically integrates with HP P6000 Continuous Access and Microsoft Cluster Service for Windows environments and native clusters on Red Hat and SUSE for Linux environments. In doing so, HP CLX is capable of automatically making the decision of whether it is appropriate for the cluster software to failover the application from one cluster node to another. Since it also monitors the health of the storage, HP CLX provides services such as swapping the personalities of the replicated disk pair to facilitate read/write access to the disaster recovery (DR) group LUNs when necessary.

Features and benefits

- **Fully automatic failover and failback**: Automated failover and failback reduces the complexity involved in a DR situation. It is protection against the risk of downtime, whether planned or unplanned.
- **Dual OS support**: Integrates with native clusters in Red Hat and SUSE Linux environments and Microsoft Cluster Service in Windows environments.
- **Integrates with Live Migration on Microsoft Hyper-V**: Integrates with Live Migration on Microsoft Hyper-V to achieve end-user transparent application migration across data centers; across servers and storage.
HP Serviceguard Metrocluster with HP P6000 Continuous Access software

HP Serviceguard Metrocluster software integrates with the array-based HP P6000 Continuous Access for data replication to provide automatic and bi-directional failover of business-critical data and applications located up to 600 kilometers apart with P6000 EVA storage. As a result, both data centers can be active, protected, and capable of handling application failover for each other.

Features and benefits

- **Automatic bi-directional failover**: Primary and standby data centers can be designed to act as backup for each other, depending upon where the disaster strikes. Applications failover automatically reducing downtime.

- **Single interface for applications and Oracle databases**: Disaster tolerance for critical applications as well as Oracle RAC databases within the same HP Serviceguard Metrocluster environment with its new Site Aware Disaster Tolerant Architecture. Need for a single DT software provides better asset utilization and lower TCO.

- **Network and solution flexibility**: It is possible to have different network subnets at two data centers. It offers solution deployment options of raw volumes or cluster file system (CFS).

- **Integration with virtualization solutions**: HP Serviceguard Metrocluster can be integrated with HP Virtual Server Environment (VSE) suite of products to provide benefits of workload management, Capacity Advisor, Utility pricing, Partitioning Continuum solutions, and much more.

- **Based on Serviceguard portfolio of products**: This helps in investment protection and lower TCO as HP Serviceguard Metrocluster is based on the basic clustering software from HP on HP-UX.

HP Serviceguard Continentalclusters

HP Serviceguard Continentalclusters software integrates with the array-based HP P6000 Continuous Access for data replication to provide manual and bi-directional failover of business-critical data and applications over unlimited distance. It also features bi-directional push-button failover giving your IT staff complete control over when to initiate a failover.

Features and benefits

- **Unlimited distances supported**: With HP Serviceguard Continentalclusters, the two data centers can be at any distance from each other. This means that a data center in another country or continent can act as a standby for your data center.

- **Integrates Oracle, Oracle RAC, and Oracle Data Guard**: HP Serviceguard Continentalclusters can integrate different versions of single instance Oracle databases, Oracle RAC, and Oracle Data Guard databases.

HP Cluster Extension, HP Serviceguard Metrocluster with Continuous Access EVA, and HP Serviceguard Continentalclusters offer high levels of protection and disaster tolerance for enterprise, tiered-enterprise, and mid-range storage environments. These solutions enable integration of extended high-availability server clustering with HP remote mirroring technologies. This strategy reduces downtime and provides rapid site recovery with automatic failover of application services, automatic data consistency checking, and read/write enabling of remotely mirrored storage. For more information, refer to [www.hp.com/go/dt](http://www.hp.com/go/dt).

### HP P6000 EVA Disaster Tolerant solutions at a glance

<table>
<thead>
<tr>
<th></th>
<th>HP Cluster Extension software</th>
<th>HP Serviceguard Metrocluster</th>
<th>HP Serviceguard Continentalclusters</th>
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</thead>
<tbody>
<tr>
<td><strong>Operating system (OS) support</strong></td>
<td>Windows, Linux</td>
<td>HP-UX</td>
<td>HP-UX</td>
</tr>
<tr>
<td><strong>Maximum distance</strong></td>
<td>500 km (300 mi) and 20 ms round trip time between EVAs</td>
<td>300 km (187 mi)</td>
<td>Unlimited</td>
</tr>
<tr>
<td><strong>Automated failover and failback</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Cluster size</strong></td>
<td>Up to 8 total nodes (2 sites*)</td>
<td>Up to 16 total nodes (2 sites*)</td>
<td>Up to 64 total nodes (4 sites*)</td>
</tr>
<tr>
<td><strong>Bi-directional failover</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Replication software</strong></td>
<td>HP P6000 Continuous Access</td>
<td>HP P6000 Continuous Access</td>
<td>HP P6000 Continuous Access</td>
</tr>
<tr>
<td><strong>Replication mode</strong></td>
<td>Synchronous and asynchronous</td>
<td>Synchronous and asynchronous</td>
<td>Synchronous and asynchronous</td>
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* Two main data centers and a third location for the quorum server or arbitrator nodes
P6000 EVA and VMware Site Recovery Manager

With VMware Site Recovery Manager, a solution jointly developed between HP and VMware that enables VMware to help you build, manage, and execute reliable disaster recovery plans. Combine ProLiant and BladeSystem servers, P6000 EVA Disk Arrays and P6000 Continuous Access replication software for a complete data protection solution.

With VMware Site Recovery Manager, you can automate the recovery of virtual machines to simplify the recovery process. With P6000 EVA, you get up to 20 percent improvement in management efficiency compared to competitors’ arrays.

By combining VMware Site Recovery Manager with HP disk arrays and Continuous Access replication software, you can:

- Reduce costs by automating and simplifying disaster recovery
- Deliver greater application uptime with reliable server and storage infrastructure from HP to deliver the highest levels of availability
- Increase agility with a flexible virtualized infrastructure that adapts to changing business needs

Service and Support

Factory Express

HP Factory Express is designed to help you get a better return from your IT investment by providing customization, integration, and deployment services along with your storage and server purchases. It provides predictable, trusted, and tested IT solutions tailored to your business needs. We allow you to customize hardware to your exact specifications in the factory—helping to speed up deployment and free up internal resources. For more information, visit www.hp.com/go/factoryexpress.

Customer technical training

Consider education as an integral part of your strategy to get a better return on investment for your HP storage solution. HP offers a variety of training courses on storage software, networking, archiving, and disk storage systems. Our classes are available in many delivery modalities from traditional instructor-led courses at one of our 80 training centers worldwide to onsite training customized to your needs or online. For more information on these services, visit www.hp.com/learn/storage.

Learn how HP P6000 EVA storage software helps your enterprise application environments high availability at www.hp.com/go/p6000software.

Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help customers cost-effectively acquire, manage, and ultimately retire their HP solutions. For more information on these services, visit www.hp.com/go/hpfinancialservices.

HP Services

Tap into the HP support services advantage, backed by the strategic and technical know-how of our consulting experts—for a single source solution that makes the most of your investments. Depending on your individual support requirements, choose from three levels of care that cover the entire lifecycle to better address your needs:

- **Optimized Care**: Delivers best performance and stability through deployment and proactive management practices
- **Customer installable**
  - 3-Year 24x7 HP Software Technical Support
  - 3-Year HP Proactive Select with 90 credits (30 credits/year)
- **Optional related service**: HP Performance Analysis for Disk Arrays

- **Standard Care**: Maintains high level of uptime, along with expert help to cut the cost and complexity of implementation and support
- **Customer installable**
  - 3-Year 24x7 HP Software Technical Support
  - 3-Year HP Proactive Select with 60 credits (20 credits/year)
- **Optional related service**: HP Performance Analysis for Disk Arrays

- **Basic Care**: Minimum recommended support
- **Customer installable**
  - 3-Year 24x7 HP Software Technical Support
  - 3-Year HP Proactive Select with 30 credits (10 credits/year)
- **Optional related service**: HP Performance Analysis for Disk Arrays

If none of our support recommendations meet your needs, we can tailor a service solution for your unique support requirements. Only HP brings together deep expertise, proactive and business critical support and a strong partner network—plus, a full set of infrastructure services designed to power a Converged Infrastructure.

For more information visit www.hp.com/services/storage.

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