

# HPE 3PAR Storage System Installation and Startup Service

## HPE Lifecycle Services

For smooth startup, the HPE 3PAR Storage System Installation and Startup Service provides deployment of your HPE 3PAR Storage System, helping to ensure proper installation in your storage environment—and helping you realize the maximum benefit from your storage investment.

The service provides the necessary activities required to deploy your HPE 3PAR Storage System into operation. With the assistance of your designated IT storage administrator, a service specialist deploys your array.

When ordered with the upgrade products, the service also provides deployment of hardware upgrades to your existing HPE 3PAR Storage System.

The service includes:

- For new arrays, configuration and presentation of Virtual Volumes for up to two hosts
- For array upgrades, installation and configuration of the array upgrade products and the minimum activities required to present the upgrade products to designated hosts
- For array rack transition, removal of the array from the HPE 3PAR factory rack and installation of the array into a rack you supply that meets Hewlett Packard Enterprise requirements

Reconfiguration of your existing array—for example, Virtual Volumes, hosts, or SAN—is excluded from this service.

For installation of the rack version of the array into a rack you supply, assembly, configuration, and positioning of the rack are excluded from this service.

Rack transition does not include installation of upgrades or relocation services. Rack transition service delivery requires that the HPE 3PAR Storage System be temporarily powered down. Upgrade installation and relocation services are available separately.

Additional configuration/integration activities can be accommodated at incremental cost.

## Service benefits

- Allows your IT resources to stay focused on their core tasks and priorities
- Reduces implementation time as well as impact on and risk to your storage environment
- Helps ensure a successful implementation by providing Hewlett Packard Enterprise installation planning and coordination
- Helps you more effectively utilize your HPE 3PAR Storage System, thanks to the knowledge you gain from the service specialist during on-site delivery of the service

## Service feature highlights

- Service planning and coordination
- Service deployment
- Installation verification tests (IVT)
- Customer orientation session

**Table 1.** Service features

Feature	Delivery specifications
<b>Service planning and coordination</b>	<p>A service specialist will plan all the necessary activities, including the identification of any prerequisites (see service eligibility requirements), and schedule the delivery of the service at a mutually agreed upon time, which shall be during local HPE standard business hours excluding HPE holidays, unless otherwise agreed. Any services provided outside of HPE standard business hours may be subject to additional charges. The service specialist will provide the planning and coordination activities detailed below either remotely or on-site, at Hewlett Packard Enterprise's discretion.</p> <p>The service specialist will perform the following installation planning and coordination activities:</p> <ul style="list-style-type: none"> <li>– Communicate with the Customer, including handling Customer queries regarding service delivery or requests for information needed from the Customer</li> <li>– Verify, using a predelivery checklist, that all service prerequisites have been met</li> <li>– Schedule the array deployment at a mutually agreed-upon time</li> <li>– Provide a brief consultation to guide the Customer in defining the array configuration objectives based on application performance, availability needs, Virtual Volume layout, and Hewlett Packard Enterprise best practices</li> <li>– Create a written installation plan, which will serve as the guide for the coordination of the installation and startup deliverables</li> </ul>
<b>Service deployment</b>	<p>The service specialist will perform the following array deployment activities:</p> <ul style="list-style-type: none"> <li>– Coordinate the installation plan</li> <li>– Confirm appropriate operating-system patch levels on up to two hosts identified in the installation plan</li> <li>– Install HPE 3PAR Storage System hardware and upgrades according to the product specifications</li> <li>– Upgrade to latest release of HPE 3PAR InForm OS software and confirm that the Inform OS version is at a supported and appropriate version</li> <li>– Initialize the array</li> <li>– Assist the Customer with installation of the Management Console software on a Customer-provided server</li> <li>– Verify that keys for purchased optional features are installed and active, that the Customer has access to appropriate product documentation, and that the Customer understands how to obtain additional optional integration assistance if required</li> <li>– For initial installation of an array, create and present Virtual Volumes for up to 2 hosts as documented in the installation plan that the Customer has provided at the time of service delivery</li> <li>– For hardware performance, capacity, and functionality upgrades, as applicable, verify that the prerequisite Inform OS version is met, install OS updates as required, and install and initialize purchased upgrade components based on the agreed-upon upgrade installation plan</li> <li>– For rack transition, remove the array from the HPE 3PAR factory rack and install it into a customer-supplied rack that meets Hewlett Packard Enterprise requirements</li> </ul>

**Table 1.** Service features (continued)

Feature	Delivery specifications
<b>Service deployment (continued)</b>	<ul style="list-style-type: none"> <li>– For optional HPE 3PAR software purchased beyond the Inform OS and Management Console: <ul style="list-style-type: none"> <li>• For array-based software titles, verify that keys for purchased optional features are installed and active, that the Customer has access to appropriate product documentation, and that the Customer understands how to obtain additional optional integration assistance if required</li> <li>• For software titles external to the array, verify that the Customer has access to software and appropriate product documentation, and confirm that the Customer understands how to obtain additional optional integration assistance if required</li> </ul> </li> <li>– Provide limited integration of up to 2 hosts (physical or virtual) running a single OS into a pre-existing operational SAN/network consisting of switch technologies that meet the supportability standards of the HPE SAN Design Guide or other Hewlett Packard Enterprise supported configuration. Integration of a host is defined as performance of the following essential tasks necessary to establish and confirm visibility of the desired Virtual Volumes to the intended host: <ul style="list-style-type: none"> <li>• Advise the Customer of zoning and multi-pathing requirements based on the host Implementation Guides</li> <li>• Verify that the Customer has read-write access to Virtual Volumes from the target hosts, as applicable</li> <li>• Confirm that the Customer has path failover and failback functionality to the target hosts, as applicable</li> </ul> </li> </ul> <p>Configure appropriate supported HPE remote monitoring and support solutions, as applicable</p>
<b>Installation verification tests (IVT)</b>	<p>The service specialist will perform the appropriate installation verification tests to confirm product functionality, including verification that:</p> <ul style="list-style-type: none"> <li>– The event logs are accumulating data</li> <li>– The array is production ready, including confirming visibility of Virtual Volumes for up to two hosts as applicable</li> <li>– Remote support tools are installed and operational, as applicable</li> </ul>
<b>Customer orientation session</b>	<p>For installation of a new array, the service specialist will conduct an orientation session of up to four hours' duration, with the goal of reviewing the configuration information and demonstrating basic operation of the installed HPE 3PAR Storage System product.</p> <p>During the orientation, the service specialist will, in general:</p> <ul style="list-style-type: none"> <li>– Provide the Customer with information about how to obtain array configuration information</li> <li>– Demonstrate the creation of a Virtual Volume</li> <li>– Highlight the basic operation of the array hardware and operating system</li> <li>– Verify that the Customer understands how to gain access to product documentation</li> <li>– Provide an overview of the system architecture</li> <li>– Inform the Customer how to contact Hewlett Packard Enterprise for support</li> <li>– Hold a brief question and answer forum</li> </ul> <p>For upgrade installation or array transition to a customer-provided rack, the service specialist will conduct an orientation session of up to one hour duration, with the goal of reviewing the configuration following service delivery.</p> <p>The orientation is informal, typically conducted at a management console with selected members of the Customer's staff, and is not intended as a classroom activity or substitute for formal product training.</p>

## Service limitations

Unless specified in this document or in a separate Statement of Work, activities such as, but not limited to, the following are excluded from this service:

- A full site inspection, such as a comprehensive analysis of the Customer's power, cooling and humidity, airborne contaminant, and vibration levels, and determination of whether the data center's raised floor has sufficient structural capacity to accommodate the weight of the array to be installed; separate services are available
- Integration with any hardware or software components not supported by the HPE 3PAR Storage System product
- Implementation of software revisions, including hot fixes, patches, service packs, or upgrades from prior versions, on the Customer's existing SAN and host environment
- Implementation of major revisions to the HPE 3PAR Storage System factory configuration; if needed, such revisions may require additional services
- Configuration, consulting, and training for optional HPE 3PAR software such as Adaptive Optimization, Dynamic Optimization, MPIO, Policy Manager, Recovery Manager, Remote Copy, System Reporter, System Tuner, Virtual Copy, and Virtual Domains; separate services are available for these products
- Redesign or reconfiguration of the existing array for hardware upgrades or software add-ons, including hardware reconfiguration
- Design or implementation of high-availability and other complex configurations, such as host clustering
- Design or implementation of host-based logical volumes and associated file system structures
- Deployment activities, including planning, design, assessment, and configuration of switch technology related to the implementation of a new SAN or the redeployment or extension of an existing SAN
- Software downgrades to the Inform OS; downgrades are limited to currently supported versions compatible with the HPE 3PAR Storage System hardware configuration only
- Performance testing or modeling
- Installation or configuration of any hardware or software products external to the array subsystem, including, but not limited to, servers, host operating systems, host agent software, multi-pathing software, tape libraries, host bus adapters, network, SAN fabric, and Enterprise Backup software
- Migration of existing data to the new array or to a new configuration within an existing array, such as the migration of existing data to thin-provisioned LUNs
- Loading, management, or manipulation of the Customer's data
- Operational testing of applications or troubleshooting of interconnectivity, network, compatibility, or problems not related to the HPE 3PAR Storage System product
- Assembly, configuration, and positioning of the customer-supplied rack for the rackmount version of the array product are excluded from this service; this limitation is applicable to any rack (including generic HPE racks) other than the enclosure factory integrated with the array
- Relocation services; relocation is available as a separate service that is scheduled separately

For installation of an HPE 3PAR Storage System, additional activities such as, but not limited to, the following are excluded from this service:

- Integration of more than 2 hosts (physical or virtual) into a pre-existing operational SAN, consisting of switch technologies that meet the supportability standards of the HPE SAN Design Guide or other Hewlett Packard Enterprise supported configuration
- Extensive racking, re-racking, or cabling activities, including cabling activities involving conduits, raceways, patch panels, and movement/configuration of computer room floor panels
- Reconfiguration of existing environments, such as removal or movement of array disk magazines and adapter cards, conversion and reformatting of existing storage between RAID levels or emulation types, or installation of extensive Fibre Channel cabling

For installation of HPE 3PAR Storage System upgrades, additional activities such as, but not limited to, the following are excluded from this service:

- Extensive racking, re-racking, or cabling activities, including cabling activities involving conduits, raceways, patch panels, and movement/configuration of computer room floor panels
- Reconfiguration of existing environments, such as removal or movement of array disk magazines and adapter cards, conversion and reformatting of existing storage between RAID levels or emulation types, or installation of extensive Fibre Channel cabling
- Integration of hosts (physical or virtual) into a pre-existing operational SAN

For transition of the array from the HPE 3PAR factory rack to a customer-supplied rack, additional activities such as, but not limited to, the following are excluded from this service:

- Access to data during transition of the array from an HPE 3PAR factory rack to a customer-supplied rack; the storage system must be temporarily powered down during service delivery
  - Integration of hosts (physical or virtual) into a pre-existing operational SAN
  - Extensive cabling activities, including cabling activities involving conduits, raceways, patch panels, and movement/configuration of computer room floor panels
  - Reconfiguration of existing environments, such as removal or movement of adapter cards, conversion and reformatting of existing storage between RAID levels or emulation types, or installation of extensive Fibre Channel cabling
  - Installation of array upgrades associated with transition of the array from the HPE 3PAR factory rack to a customer-supplied rack; upgrade installation is available as a separate service that is scheduled separately
- Disposition of the HPE 3PAR factory rack

## Service eligibility

The Customer must meet the following hardware and software prerequisites prior to beginning on-site delivery of the service. Prerequisites include, but are not limited to, the following:

- The Customer's existing computing operating system platform(s) must be supported by and be compatible with the HPE 3PAR Storage System product(s) being installed.
- The Customer's SAN environment must be fully operational in a configuration supported by Hewlett Packard Enterprise, and connectivity must be available and operational in the location where the array will be installed.
- The Customer must provide and verify a suitable physical operating environment for the array product, including implementation of any power, cooling, and other environmental requirements.
- For the rackmount version of the array product, the Customer must assemble and configure the customer-supplied rack and position it in the location where the array will be installed. This requirement is applicable to any rack (including generic HPE racks) other than the enclosure that is factory integrated with the array.
- For array upgrade installation, the HPE 3PAR Storage System must be fully operational, in a supported configuration, and physically located where the upgrade will be installed.
- The Customer must install any recommended host- or SAN-based software upgrades, patches, device drivers, or multi-pathing software.
- The Customer is responsible for providing servers/workstations and network provisioning that meet the requirements for additional software products, such as the Information Management Console and Policy Manager.
- The Customer must provide appropriate network provisioning to enable the HPE remote monitoring and support solution.

## Customer responsibilities

The Customer will:

- Contact a Hewlett Packard Enterprise service specialist within 90 days of date of purchase to schedule the delivery of the service
- Coordinate deployment activities on third-party-maintained hardware or software (if applicable) with the service specialist
- Ensure that all service prerequisites as identified in the 'Service eligibility' section have been met
- Complete and return the prerequisite Hewlett Packard Enterprise predelivery checklist to the service specialist at least two weeks prior to the start of the service, including array configuration information for upgrade installations, as necessary
- Assign a designated person from the Customer's staff who, on behalf of the Customer, will grant all approvals, provide information, and otherwise be available to assist Hewlett Packard Enterprise in facilitating the delivery of this service
- Ensure that all hardware, firmware, and software that the service specialist will need in order to deliver this service are available and that software products are properly licensed
- Ensure the availability, at all times during service delivery, of one or more individuals who will provide administrator-level access to the systems where the work is to be performed
- Provide all necessary network and administration assistance to enable connectivity to the HPE 3PAR Storage System to allow HPE remote monitoring and support tools to communicate with the Hewlett Packard Enterprise Support Center
- Provide all necessary administration to enable end-to-end connectivity of the HPE 3PAR Storage System, including network, SAN fabric, and host
- Provide server and network provisioning that meet the requirements for additional software products, such as the Information Management Console
- Ensure that any and all prerequisite firmware or driver dependencies for the environment are handled before on-site service delivery begins
- Uncrate cabinet products and place them in the immediate location where the installation service will take place; Hewlett Packard Enterprise will unpack products to be installed in a customer-supplied rack
- Assemble and configure the customer-supplied rack for the rackmount version of the array product and position in the location where the array will be installed; this requirement is applicable to any rack (including generic HPE racks) other than the enclosure factory integrated with the array
- Plan and schedule for the maintenance window required to temporarily power down the HPE 3PAR Storage System and dispose of the HPE 3PAR factory rack when the array is transitioned from an HPE 3PAR factory rack to a customer-supplied rack
- Adhere to licensing terms and conditions regarding the use of any Hewlett Packard Enterprise service tools used to facilitate the delivery of this service or support tools used to provide ongoing remote monitoring, if applicable
- Be responsible for all data backup and restore operations
- Provide a suitable work area for delivery of the service, including access to an outside telephone line, power, and any network connections required
- Allow Hewlett Packard Enterprise full and unrestricted access to all locations where the service is to be performed
- Perform other reasonable activities to help Hewlett Packard Enterprise identify or resolve problems, as requested by HPE

## General provisions / other exclusions

- Hewlett Packard Enterprise reserves the right to re-price this service if the Customer does not schedule and provide for subsequent delivery within 90 days of purchase.
- Hewlett Packard Enterprise reserves the right to charge, on a time and materials basis, for any additional work over and above the service package pricing that may result from work required to address service prerequisites or other requirements that are not met by the Customer.
- Hewlett Packard Enterprise's ability to deliver this service is dependent upon the Customer's full and timely cooperation with HPE, as well as the accuracy and completeness of any information and data the Customer provides to HPE.
- The service is delivered during local HPE standard business hours. Service delivery outside these hours is available at additional cost.
- This service is delivered as a single, contiguous event. If Customer resource availability or other Customer restrictions delay installation or require additional visits beyond the defined scope of the service, additional charges may apply.
- Services defined in this data sheet will be delivered remotely. If the customer requests on-site delivery, additional charges may apply.
- For remote installation by HPE, remote installation will be performed by HPE support resources from Global Competency Center.
- A partner must be enabled to perform installation on-site in order to perform on-site installation and remotely in order to perform remote installation.
- Customers must purchase a service that is available for purchase in their location. Please note that remote delivery might occur from another country. A Customer's remedy for a purchase of a remote or on-site service that cannot be delivered in a given location will be limited to a refund of the purchase price.
- Travel charges may apply; please consult your local office.

Activities such as, but not limited to, the following are excluded from this service:

- Service deployment on hardware not covered by a Hewlett Packard Enterprise warranty or service maintenance contract
- Service deployment on hardware covered by a third-party maintenance contract
- Services that, in the opinion of Hewlett Packard Enterprise, are required due to unauthorized attempts by non-HPE personnel to install, repair, maintain, or modify hardware, firmware, or software
- Service required due to causes external to the Hewlett Packard Enterprise maintained hardware or software
- Any services not clearly specified in this document

## Ordering information

To order HPE 3PAR Storage System Installation and Startup Service, please contact your Hewlett Packard Enterprise representative.

## For more information

For more information on Hewlett Packard Enterprise support services, contact any of our worldwide sales offices or visit the following website:

[HPE.com/services/support](https://hpe.com/services/support)

[HPE.com/services/lifecycleevent](https://hpe.com/services/lifecycleevent)

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