

Overview

HP SmartCache is a controller-based caching solution in a DAS environment that caches the most frequently accessed data ("hot" data) onto lower latency high performing SSDs to dynamically accelerate application workloads. HP SmartCache can be enable on HP Smart Array P-Series controllers found in HP ProLiant Gen8 Servers. HP SmartCache consists of firmware that provides the caching feature within the Smart Array controllers and requires a license key for activation.

NOTE: HP SmartCache is hosted on Smart Array Controllers and can be enabled on the HP Smart Array P420i, P420, and P421, P721m, and the P822 controllers that include a 1 GB or larger Flash Backed Write Cache module (FBWC). HP SmartCache features are standard on Smart Array P721m/2G and P822/2G controllers.

Models

NOTE: One license is required for every server to be deployed. Licenses are non-transferable. Full details are contained in the End User License Agreement.

HP SmartCache

HP SmartCache No Media 24x7 Technical Support 1 Svr License

D7S26A

NOTE: This part number can be used to purchase a single license or to order multiple licenses with a single activation key. Customer will receive a printed license entitlement certificate via physical shipment.. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Include one year of 24x7 HP Software Technical Support Services.

HP SmartCache No Media 24x7 Technical Support Flexible License

D7S27A

NOTE: This part number can be used to purchase multiple licenses with a single activation key. Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24x7 HP Software Technical Support Services.

HP SmartCache No Media 24x7 Technical Support Electronic License

D7S27AAE

NOTE: This part number can be used to purchase a single license or to order multiple licenses with a single activation key. Customer will receive a license entitlement certificate via email. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24x7 HP Software Technical Support Services.

Standard Features

Features and Benefits

HP SmartCache provides the following features and benefits:

- **Workload Acceleration** - Workload acceleration performance by caching hot data on SSDs.
- **Simplified Deployment** - Seamless integration into your datacenter with no application or operating system changes
- **Unified Management** - Manage your array and HP SmartCache through the Array Configuration Utility (ACU)
- **Efficient Operations** - Performance and efficiency gains utilizing your existing HP ProLiant Gen8 server technology

Bulk storage

The first element is the bulk storage device, which is any supported storage attached to the HP Smart Array controller.

Accelerator

The second element, the accelerator, is a faster/lower latency SAS or SATA SSD device that caches the data. The capacity of the accelerator is typically less than the capacity of the bulk storage device.

Metadata

The final element is metadata, information held in a relatively small storage area that maps the location of information residing on the accelerator and bulk storage devices.

Compatibility

For up to date compatibility, please see the following URL for complete Smart Array Controller compatibility and support information:

<http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA3-4003ENW&cc=us&lc=en>

Licensed Features

Single-Server License Contains one license per server, a printed license entitlement certificate, end user license agreement, and license key installation card delivered via physical shipment.. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s).

Electronic License Can be purchased as a single license or as multiple licenses with a single activation key. Contains license(s) for a customer defined quantity of servers, a license entitlement certificate, end user license agreement, and license key installation information delivered via e-mail. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s).

Flexible-Quantity License Used to purchase multiple licenses with a single activation key. Contains license(s) for a customer-defined quantity of servers, a license entitlement certificate for the quantity of licenses purchased, end user license agreement, and license key installation card delivered via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s).

Activation Key Agreement The activation key program is provided for customers who plan to purchase HP SmartCaches periodically over a 1 to 3 year timeframe. The program is a way for HP to customers under contract to pay for each license of the value pack software as it is used. Customers are provided a single key to deploy throughout their network.

NOTE: No physical components or license keys are delivered in conjunction with the purchase of this part number. For more information on Activation Key Agreements please visit:

<http://h18004.www1.hp.com/products/servers/proliantessentials/license/akalic.html>

NOTE: To order the HP Smart Array Advanced Pack or the and HP Smart Array Advanced Pack 2.0, contact your HP Account Manager or HP Authorized Reseller, or go online at: <http://www.hp.com/go/saap>

HP Software Support HP offers a number of software support services, many of which are provided to customers at no additional charge.

Software Technical Support Service

HP SmartCache includes one year of 24 x 7 HP Software Technical Support Service. This service provides access to HP technical resources for help in resolving software implementation or operations problems. The service also provides access to reference manuals either in electronic form or on physical media as they are made available from HP. (Customers who purchase an electronic license to use are eligible for electronic updates only.)

NOTE: Software Bug fixes will be available for download via the web when made available. Refer to <http://www.hp.com/go/smartcache>

For support questions in the U.S. that are not covered in any of the above services, please call 1-800-HP-INVENT (1-800-474-6836). HP Worldwide numbers for support are available at: <http://www.hp.com/country/us/en/wwcontact.html>

Technical Specifications

Software License	HP SmartCache - skus 1 Year 24x7 Support: D7S26- One Single Server License D7S27A- Multiple licenses one single key D7S27AAE- One Single Server License Web purchase
Controllers supported	Controllers Supported with License: HP Smart Array P420i, P420, P421 Controllers Supported with base offering SmartCache: HP Smart Array P82/2GB 2 & P721m/2GB
Supported Operating Systems	Operating Systems supported on HP ProLiant Gen 8 Smart Array Controllers. For more information visit: http://www.hp.com/go/ossupport
Supported SSDs	ProLiant Gen 8 Supported SSD. For more details please visit www.hp.com/products/harddiskdrives
Max Number of SSD Cache volumes supported	Up to 32 SSD Cache Volumes
Max number of HDD Volumes + Cache volumes	Up to 64 (Total number of HDD Volumes + Cache volumes must not exceed 64)
Max. SSD SmartCache Capacity per Controller	2TiB

HP SmartCache requirements	HP Smart Array Controller requirements - minimum of: <ul style="list-style-type: none">• HP ProLiant Gen8 server NOTE: Also supported on the HP ProLiant SL4540 G7.• HP Smart Array P420i, P420, and P421, P721m and P822 upgraded to 1GB or greater Flash Back Write Cache.• Minimum one HDD (SAS or SATA) attached to the HP Smart Array controller (supported on HP ProLiant Gen8 Server)• Minimum firmware version: February 2013 version or later• Minimum driver version: February 2013 version or later• Minimum ACU version: February 2013 version or late
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Environment-friendly Products and Approach	End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green . To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.
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The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Technical Specifications

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