

Overview

HP Smart Array Advanced Pack (SAAP) consists of a group of firmware that provides additional and advanced feature functionality within the Smart Array Controllers that requires a license key for activation. These licensed features provides an easy key activation to enable features such as added RAID protection, drive erase and performance optimization and more.

NOTE: Smart Array Advanced Pack is hosted on the Smart Array Controller hardware firmware stack and can be enabled on the P212, P410, P410i, and P411 running a minimum of 256MB cache and Battery Backed.

Models

HP Smart Array Advanced Pack No Media 1-Server license including 1yr 24x7 Technical Support	516471-B21
NOTE: This part number can be used to purchase a single license or to order multiple licenses with a single activation key. Customers will receive a license entitlement certificate via e-mail. 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 Smart Array Advanced Pack No Media Flexible-Quantity License, including 1 year 24x7 Technical Support	516474-B21
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 Smart Array Advanced Pack No Media - AKA Tracking License including 1 year of 24x7 Technical Support	516475-B21
NOTE: For use with signed and implemented Activation Key Agreements only. Purchase of this part number entitles the customer to deploy additional licenses of the product under the terms of the existing Activation Key Agreement. Nothing is delivered in conjunction with the purchase of this part number.	
HP Smart Array Advanced Pack License No Media -Electronic, including 1 year of 24x7 Technical Support	TA852AAE
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

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

RAID 6 (ADG) RAID 6 (Advanced Data Guarding) protects against any 2 drive failures. Supported with a minimum of 4 drives, but would have 2 available. Can be supported on all servers.
NOTE: Blades not supported until JBOD expander availability

RAID 60 Supported with a minimum of 8 drives, but would have 4 available. A target benefit is to split RAID across the external boxes. Can be supported on all servers.
NOTE: Blades not supported until JBOD expander availability

Advanced Capacity Expansion (ACE) Higher capacity migrations use capacity transformation to remove logical drives by shrinking and then expanding them online.

Mirror Splitting and Recombining in Offline Model This is similar to a scaled down rollback functionality which requires 2 HDDs (ie, take a RAID 1 and break into 2 RAID 0s).

Drive Erase Erase physical disk or logical volume securely. Useful to decommission, redeploy, or return hard drives for security purposes.

Performance Optimization Degraded reads and read coalescing (VOD) - Video on demand performance optimizations that improve latency while video streaming.

Compatibility For up to date compatibility, please see the following URL for complete Smart Array Controller compatibility and support information:
<http://h18006.www1.hp.com/products/servers/proliantstorage/arraycontrollers/index.html>

Licensed Features

Single-Server License Contains one license, a printed license entitlement certificate, end user license agreement, and license key installation card delivered via physical shipment. For use with a single server. 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). Only available directly from HP and select resellers and in the Americas region.

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 Smart Array Advanced Packs 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 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 Smart Array Advanced Pack 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/saap>

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

HP Smart Array Controller requirements A minimum of:
256MB Cache Module
Battery Kit for Battery Backed Write Cache (BBWC)

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.

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