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 and can be enabled on the HP Smart Array P212, P410, P410i, and P411 controllers with a Battery Backed Write Cache module or a Flash Backed Write Cache module.. SAAP functionality is standard on the HP Smart Array P812 controller.

Models

NOTE: One license is required for every server or virtual machine to be deployed. Licenses are non-transferable. Full details are contained in the End User License Agreement. 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. 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 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		
RAID 6 (ADG)	RAID 6 (Advanced Data Guarding) protects against failure of any two drives. It requires a minimum of four drives. RAID 6 can tolerate two simultaneous drive failures without downtime or data loss and is ideal for applications requiring large logical volumes.	
RAID 60	RAID 60 (RAID 6+0) is a nested RAID method that uses RAID 0 block-level striping across multiple RAID 6 arrays with dual distributed parity. RAID 60 allows administrators to split the RAID storage across multiple external storage boxes. It requires a minimum of eight drives.	
Advanced Capacity Expansion (ACE)	Advanced Capacity Expansion complements the conventional capacity expansion feature of Smart Array controllers by allowing customers to perform two new operations to either shrink or move existing arrays	
	The Shrink Array operation allows customers to remove drives from an existing array The Move Array operation allows customers to transfer the contents of a disk array from one set of physical drives to a second set of physical drives.	
Mirror Splitting and Recombining in Offline Mode	Split an array with one or more RAID 1 or RAID 1+0 logical drives into two identical, new arrays with RAID 0 logical drives.	
Drive Erase	Erase physical disk or logical volume. Useful for the decommissioning, redeployment, or returning of hard drives.	
VOD Performance Optimization	Video on demand (VOD) focused enhancements that improve performance while video streaming.	
Dual Domain	Dual domain creates redundant pathways for external drives from servers to storage devices. The redundant paths created by these configurations reduce or eliminate single points of failure within the storage network.	
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).		
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	 nt The activation key program is provided for customers who plan to purchase Smart Array Advanced Pace 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 Authoriz 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 A minimum of: requirements HP Smart Array P212, P410, P410i, or P411 controller 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.		
		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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