

Overview

StorMagic

StorMagic SvSAN removes the need for a physical SAN in some of the world's most demanding environments by converting the disk, flash and memory of two servers into a virtual SAN. It meets the needs of typical edge computing deployments such as remote or branch offices and small datacenters that require a small IT footprint.

It is a sweet spot solution for small and medium sized enterprises (SMEs) like retail stores, factories, warehouses, and even wind farms or oil rigs. In all of these deployments, SvSAN enables small hyperconverged clusters with an unrivaled level of simplicity and affordability.

StorMagic SvSAN simplifies storage at the edge by turning the storage in HPE servers into highly available, shared storage. SvSAN is a lightweight virtual SAN solution designed to deliver hyperconverged compute and storage infrastructure with two (or more) low-cost servers. It is uniquely optimized for cost effective, multi-site data management, enabling continuous, high-speed data access for business-critical applications.

SvSAN eliminates the need for physical SANs, eliminates downtime for business critical applications and lowers IT acquisition and operating cost. SMEs and large organizations around the world have already chosen SvSAN to modernize their IT infrastructure.

SvSAN can be deployed with ease and the flexibility to scale up and out to meet changing performance and capacity requirements, without impacting service availability.

The StorMagic solution through HPE Complete drastically improves the manageability of edge sites. With SvSAN, it is as easy to deploy and manage 1,000 highly available sites as it is to manage 1. Paired with HPE servers, it is possible to create high performing on-site storage, at a surprisingly low price point, that eliminates the threat of unplanned downtime.

StorMagic is available as software purchased through the HPE Complete Program. StorMagic is licensed per node and not per edge site. Each node in an edge site will require a license and support SKU per license.

HPE Complete- Resell of Third Party Branded Products

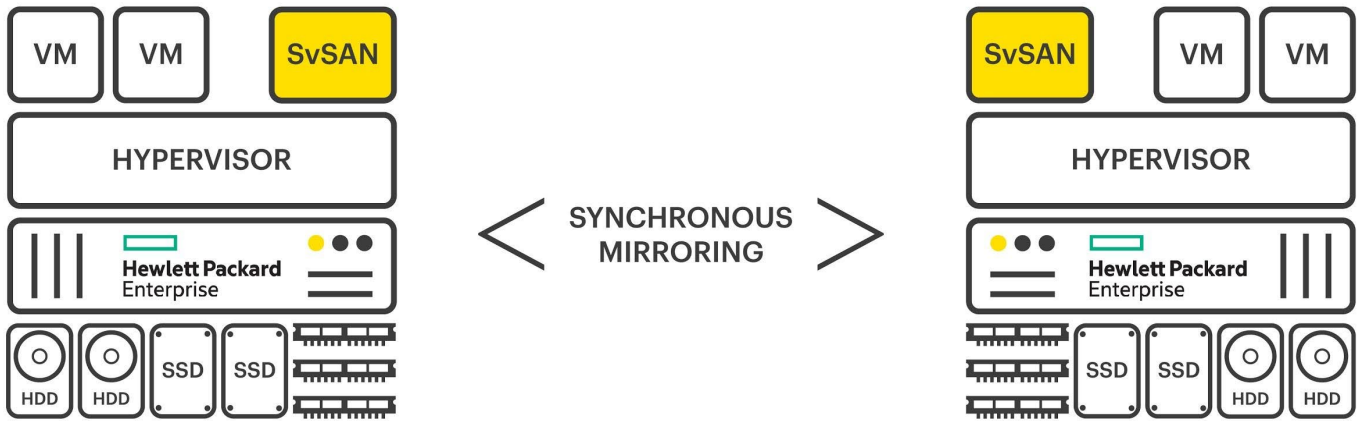
HPE Complete is a resource enabling the purchase of best in class third party branded products with the added reliability of Hewlett Packard Enterprise's interop assurance for a complete validated solution, all via one HPE purchase order.

Benefits

- One Stop Shop - Purchase complete solutions from HPE that include best in class third party branded products, all on a single HPE purchase order
- Validated solution - Confidence of The HPE interop assurance validation for third party branded products that complement HPE Storage & Server solutions
- Customer Experience - HPE Complete utilizes third-party expertise for installation, support, and warranty of their products. However, HPE Complete will step in to facilitate third-party issue resolution when required to assist in overall customer satisfaction. HPE products that are part of the overall solution are supported per HPE Pointnext services and support purchased
- Unique Value – Minimize risk, complexity and cost when deploying multi-vendor products and technologies into the HPE ecosystem. Many solutions come with custom HPE/Partner configuration and integration guides and tools.

For more information please refer [HPE Complete](#) on HPE.com

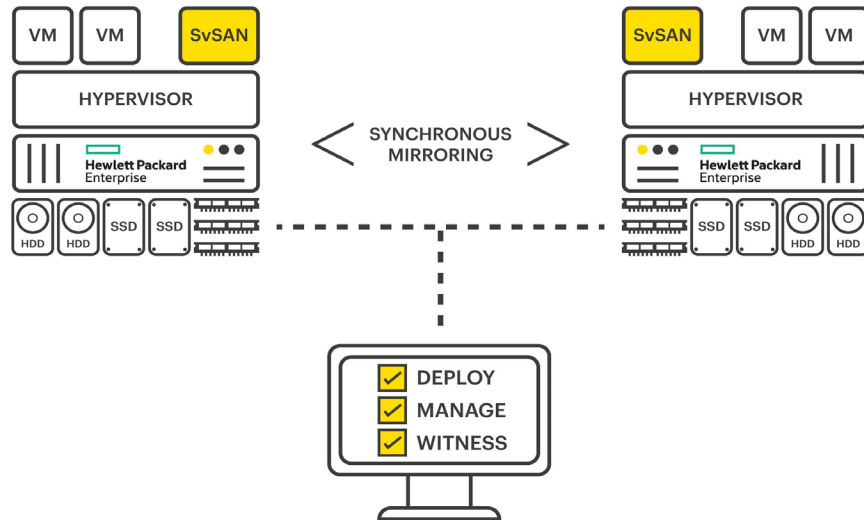
Overview



StorMagic Solution Architecture

The StorMagic solution via HPE Complete provides small sites with lightweight highly available storage, delivering 100% uptime for mission critical applications in edge sites, remote and branch offices and small datacenters.

StorMagic SvSAN converts the disk, flash and memory of any two HPE servers into a virtual SAN. Further details on StorMagic with HPE servers can be found at <https://stormagic.com/hpe>



StorMagic SvSAN cluster on HPE servers



Overview

Models

Hewlett Packard Enterprise is making the following StorMagic SKUs available via HPE Complete. StorMagic SKUs are licensed per node, not by SvSAN site. Each license requires an accompanying support SKU.

Description	SKU
StorMagic 2 TB licenses & support	
StorMagic SvSAN 1 Node 2TB Base E-LTU	R7H19AAE
StorMagic SvSAN 1 Node 2TB 1-year Platinum Support	R7H20AAE
StorMagic SvSAN 1 Node 2TB 3-year Platinum Support	R7H21AAE
StorMagic SvSAN 1 Node 2TB 5-year Platinum Support	R7H22AAE
StorMagic 6 TB licenses & support	
StorMagic SvSAN 1 Node 6TB Base E-LTU	R7H23AAE
StorMagic SvSAN 1 Node 6TB 1-year Platinum Support	R7H24AAE
StorMagic SvSAN 1 Node 6TB 3-year Platinum Support	R7H25AAE
StorMagic SvSAN 1 Node 6TB 5-year Platinum Support	R7H26AAE
StorMagic 12 TB licenses & support	
StorMagic SvSAN 1 Node 12TB Base E-LTU	R7H27AAE
StorMagic SvSAN 1 Node 12TB 1-year Platinum Support	R7H28AAE
StorMagic SvSAN 1 Node 12TB 3-year Platinum Support	R7H29AAE
StorMagic SvSAN 1 Node 12TB 5-year Platinum Support	R7H30AAE
StorMagic Unlimited TB licenses & support	
StorMagic SvSAN 1 Node Unlimited TB Base E-LTU	R7H31AAE
StorMagic SvSAN 1 Node Unlimited TB 1-year Platinum Support	R7H32AAE
StorMagic SvSAN 1 Node Unlimited TB 3-year Platinum Support	R7H33AAE
StorMagic SvSAN 1 Node Unlimited TB 5-year Platinum Support	R7H34AAE
StorMagic Predictive Storage Caching licenses & support	
StorMagic SvSAN 1 Node Predictive Storage Caching E-LTU	R7H35AAE
StorMagic SvSAN Advanced 1 Node 1-year Platinum Support	R7H36AAE
StorMagic SvSAN Advanced 1 Node 3-year Platinum Support	R7H37AAE
StorMagic SvSAN Advanced 1 Node 5-year Platinum Support	R7H38AAE
StorMagic 2 TB Capacity Upgrade licenses & support	
StorMagic SvSAN 2-6TB Upgrade per Server E-LTU	R7H06AAE
StorMagic SvSAN 2-6TB Upgrade per Server Monthly 24x7 Support	R7H07AAE
StorMagic SvSAN 2-12TB Upgrade per Server E-LTU	R7H08AAE
StorMagic SvSAN 2-12TB Upgrade per Server Monthly 24x7 Support	R7H09AAE
StorMagic SvSAN 2TB-Unlimited TB Upgrade per Server E-LTU	R7H10AAE
StorMagic SvSAN 2TB-Unlimited TB Upgrade per Server Monthly 24x7 Support	R7H11AAE
StorMagic 6 TB Capacity Upgrade licenses & support	
StorMagic SvSAN 6-12TB Standard Upgrade per Server E-LTU	R7H12AAE
StorMagic SvSAN 6-12TB Standard Upgrade per Server Monthly 24x7 Support	R7H13AAE
StorMagic SvSAN 6TB-Unlimited TB Upgrade per Server E-LTU	R7H14AAE
StorMagic SvSAN 6TB-Unlimited TB Upgrade per Server Monthly 24x7 Support	R7H15AAE



Overview

Description

SKU

StorMagic 12 TB Capacity Upgrade licenses & support

StorMagic SvSAN 12TB-Unlimited TB Standard Upgrade per Server E-LTU

R7H16AAE

StorMagic SvSAN 12TB-Unlimited TB Standard Upgrade per Server Monthly 24x7 Support

R7H17AAE

StorMagic Encryption and Services

StorMagic SvSAN 1 Node Encryption Feature E-LTU

R9F25AAE

StorMagic 4-hour Remote Professional Service

R9F26AAE

StorMagic 8-hour Remote Professional Service

R9F27AAE

StorMagic Witness-as-a-Service (WaaS)

StorMagic WaaS 1 Node Maintenance 1-year Subscription E-LTU

R9F28AAE

StorMagic WaaS 1 Node Maintenance 3-year Subscription E-LTU

R9F29AAE

StorMagic WaaS 1 Node Maintenance 5-year Subscription E-LTU

R9F30AAE



Standard Features

Key Features

Simple

- StorMagic SvSAN utilizes the internal storage of any two HPE servers and creates a virtual environment that runs on any storage type. StorMagic SvSAN is licensed per server.
- It is able to tolerate poor, unreliable networks, eliminates single points of failure and ensures high availability in hard to reach locations
- The software benefits from centralized deployment and management, making it as easy to run 1,000 sites as it is to run 1

Cost Effective

- StorMagic SvSAN eliminates the need for a physical SAN, and it lowers CAPEX as significantly less hardware is required due to SvSAN's lightweight requirements
- SvSAN greatly reduces OPEX through lower power consumption and cooling, requires less maintenance and spare parts and reduces the need for specialist IT staff to always be on-site

Flexible

- SvSAN can be configured precisely to fit a specific environment, eliminating over-provisioning
- StorMagic SvSAN has numerous deployment options:
 - it can be deployed as a 'build-your-own'
 - or pre-configured hyperconverged solution
 - or as a storage-only server SAN
- Easy to scale up and out, as and when required, with minimal disruption and cost

Features required for the Deployment

Features	Base License	Predictive Storage Caching	Data Encryption	Witness-as-a-Service (WaaS)
Synchronous mirroring / high availability	•	N/A	N/A	N/A
Stretch / metro clusters	•	N/A	N/A	N/A
Volume migration	•	N/A	N/A	N/A
VSA restore (VMware only)	•	N/A	N/A	N/A
VMware vSphere Storage API (VAAI) support	•	N/A	N/A	N/A
Centralized management and monitoring	•	N/A	N/A	N/A
Multiple VSA GUI deployment and upgrade	•	N/A	N/A	N/A
I/O performance statistics	•	N/A	N/A	N/A
Witness	•	N/A	N/A	N/A
PowerShell script generation	•	N/A	N/A	N/A
Cluster-aware upgrades	•	N/A	N/A	N/A
Software RAID	•	N/A	N/A	N/A
Predictive read ahead caching (SSD and memory)	N/A	•	N/A	N/A
Write back caching (SSD)	N/A	•	N/A	N/A
Data pinning	N/A	•	N/A	N/A
Data encryption	N/A	N/A	•	N/A
Witness-as-a-Service (WaaS)	N/A	N/A	N/A	•

There are minimum server configuration requirements for use with the StorMagic software depending on the size of the data set analyzed. HPE has developed and maintains a HPE Hardware Configuration Guide for StorMagic deployments located at :

<https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a50001084enw>



Service and Support

Service and Support for StorMagic software

Is provided directly from StorMagic. For any support and general queries please email support@stormagic.com. The StorMagic Technical Services team will be responsible for responding, assigning a severity level to the call, and determining the service Severity Level acceptable to the Hewlett Packard Enterprise customer. The support request will be processed by StorMagic in accordance with the Severity Level agreed upon.

Severity levels are detailed in the below document: https://stormagic.com/pdf/Support_policy_lifecycle.pdf

The support engagement process is detailed in the below document:

https://support.stormagic.com/release_notes/Customer_Support_How_to_Guide.pdf

Warranty - Disclaimer

The services are provided "as is." to the fullest extent permitted by law, except as expressly stated in this agreement, neither StorMagic and its affiliates, suppliers, and distributors make any warranty of any kind, whether express, implied, statutory or otherwise, including warranties of merchantability, fitness for a particular use, or non-infringement. No oral or written information or advice given by StorMagic, its agents, authorized resellers or employees shall create a warranty or in any way increase the scope of this warranty and customer may not rely on any such information or advice. StorMagic does not warrant that the functions contained in any services or software will meet the requirements of customer or that the operation of any such services or software will be uninterrupted or error free. Customer is responsible for maintaining and backing up any file data.

Return Policy for Resellers

StorMagic does not accept licenses returns. Please purchase accurate quantity required to fulfil the customer order.



Configuration Information

As a guide to deployment of the StorMagic solution with HPE Servers, please consult this HPE StorMagic configuration guide: <https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a50001084enw>

For the differences in features between a Base SvSAN license, and an SvSAN license that includes the Predictive Storage Caching , Data Encryption , and witness (WaaS) add-ons, please see: <https://stormagic.com/svsan/features/>

To configure StorMagic solutions through HPE Complete follow these steps (1 through 4):

Step-1: Determine the usable Virtual Storage Appliance (VSA) capacity required for the installation

This is the amount of storage to be mirrored by the end user. Licenses are offered in 2TB, 6TB, 12TB and unlimited TB. A license and accompanying support SKU is required for each VSA. A license/support SKU is required per each server.

Step-2: Determine the features required for the deployment

The **Base SvSAN license** provides all of the features necessary to deliver and manage highly available shared storage, while the **Predictive Storage Caching SKU** adds additional performance-enhancing features, the **Data Encryption SKU** adds security-enhancing data encryption, and the **WaaS SKUs** simplify maintenance.

The full list of features available in each version is illustrated on Features required for the Deployment table.

Further details about SvSAN's features, capabilities and requirements can be found at <https://stormagic.com/svsan/features/>

Step-3: (Optional) for installations needing a Server deployment

Select any HPE server from this Hewlett Packard Enterprise site: <https://www.hpe.com/us/en/servers/rack.html>

Step-4

Step-4a Select the StorMagic Perpetual License based on steps 1 and 2

Each SKU is for a given capacity of data you wish to manage with StorMagic and for the features needed (base or addition of predictive caching license and/or data encryption). Select the minimum capacity which exceeds the capacity determined in step 1. StorMagic Software Perpetual SKU, Predictive Caching SKU, and Data Encryption SKU must include a same capacity Support and Maintenance SKU as listed in step 4b. The Advanced Platinum Support SKU is needed if you are including either the Predictive Caching SKU or the Data Encryption SKU. Also note, if you are ordering both Platinum Support and Advanced Platinum Support, then the term lengths must be identical. There is no mixing of term lengths allowed between these two support SKUs.

Description	SKU
StorMagic SvSAN 1 Node 2TB Base E-LTU	R7H19AAE
StorMagic SvSAN 1 Node 6TB Base E-LTU	R7H23AAE
StorMagic SvSAN 1 Node 12TB Base E-LTU	R7H27AAE
StorMagic SvSAN 1 Node Unlimited TB Base E-LTU	R7H31AAE
StorMagic SvSAN 1 Node Predictive Storage Caching E-LTU	R7H35AAE
StorMagic SvSAN 1 Node Encryption Feature E-LTU	R9F25AAE

Step-4b Select the StorMagic Maintenance and Support to match the license(s) selected in 4a.

These SKUs can also be used for renewals.

StorMagic SvSAN 1 Node 2TB 1-year Platinum Support	R7H20AAE
StorMagic SvSAN 1 Node 2TB 3-year Platinum Support	R7H21AAE
StorMagic SvSAN 1 Node 2TB 5-year Platinum Support	R7H22AAE

Configuration Information

Description	SKU
StorMagic SvSAN 1 Node 6TB 1-year Platinum Support	R7H24AAE
StorMagic SvSAN 1 Node 6TB 3-year Platinum Support	R7H25AAE
StorMagic SvSAN 1 Node 6TB 5-year Platinum Support	R7H26AAE
StorMagic SvSAN 1 Node 12TB 1-year Platinum Support	R7H28AAE
StorMagic SvSAN 1 Node 12TB 3-year Platinum Support	R7H29AAE
StorMagic SvSAN 1 Node 12TB 5-year Platinum Support	R7H30AAE
StorMagic SvSAN 1 Node Unlimited TB 1-year Platinum Support	R7H32AAE
StorMagic SvSAN 1 Node Unlimited TB 3-year Platinum Support	R7H33AAE
StorMagic SvSAN 1 Node Unlimited TB 5-year Platinum Support	R7H34AAE
StorMagic SvSAN Advanced 1 Node 1-year Platinum Support	R7H36AAE
StorMagic SvSAN Advanced 1 Node 3-year Platinum Support	R7H37AAE
StorMagic SvSAN Advanced 1 Node 5-year Platinum Support	R7H38AAE
StorMagic WaaS 1 Node Maintenance 1-year Subscription E-LTU	R9F28AAE
StorMagic WaaS 1 Node Maintenance 3-year Subscription E-LTU	R9F29AAE
StorMagic WaaS 1 Node Maintenance 5-year Subscription E-LTU	R9F30AAE

To configure StorMagic Capacity Upgrades through HPE Complete follow these steps (1 through 4)

Step-1: Determine the customers current capacity, and the new capacity required

Step-2: Select the StorMagic Capacity Upgrade License

Each SKU is for a given increase of capacity of data you wish to manage with StorMagic. These licenses will allow current StorMagic customers to increase the capacity of the original license purchased.

2TB capacity upgrades

StorMagic SvSAN 2-6TB Upgrade per Server E-LTU	R7H06AAE
StorMagic SvSAN 2-12TB Upgrade per Server E-LTU	R7H08AAE
StorMagic SvSAN 2TB-Unlimited TB Upgrade per Server E-LTU	R7H10AAE

6TB capacity upgrades

StorMagic SvSAN 6-12TB Standard Upgrade per Server E-LTU	R7H12AAE
StorMagic SvSAN 6TB-Unlimited TB Upgrade per Server E-LTU	R7H14AAE

12TB capacity upgrades

StorMagic SvSAN 12TB-Unlimited TB Standard Upgrade per Server E-LTU	R7H16AAE
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Step-3: Determine the amount of support left on customers current StorMagic support contract.

Capacity upgrade support is structured monthly in order to co-terminate with existing support of the current license that is being increased in capacity.

Step-4 Select the StorMagic Maintenance and Support to match the capacity upgrade license(s)

Selected in step 2. Quantity must match the number of months left on current support contract

2TB capacity upgrade support options

StorMagic SvSAN 2-6TB Upgrade per Server Monthly 24x7 Support	R7H07AAE
StorMagic SvSAN 2-12TB Upgrade per Server Monthly 24x7 Support	R7H09AAE
StorMagic SvSAN 2TB-Unlimited TB Upgrade per Server Monthly 24x7 Support	R7H11AAE

Configuration Information

Description**SKU****6TB capacity upgrade support options**

StorMagic SvSAN 6-12TB Standard Upgrade per Server Monthly 24x7 Support

R7H13AAE

StorMagic SvSAN 6TB-Unlimited TB Upgrade per Server Monthly 24x7 Support

R7H15AAE

12TB capacity upgrade support options

StorMagic SvSAN 12TB-Unlimited TB Standard Upgrade per Server Monthly 24x7 Support

R7H17AAE

Optional - If needed, select professional services for assistance in solution deployment

StorMagic 4-hour Remote Professional Service

R9F26AAE

StorMagic 8-hour Remote Professional Service

R9F27AAE



Summary of Changes

Date	Version History	Action	Description of Change
21-Mar-2022	Version 7	Changed	Changed description of features and clarified how to select support SKU term lengths
07-Feb-2022	Version 6	Changed	Added WaaS licenses
10-Jan-2022	Version 5	Changed	Added Encryption License and Remote Professional Services
04-Jan-2021	Version 4	Changed	Updated to reflect new SKU offerings for the Jan 2021 launch
08-Sep-2020	Version 3	Changed	Added license requirement of per node and not per site
04-May-2020	Version 2	Changed	Added Support Renewal Licenses
02-Mar-2020	Version 1	New	New QuickSpecs



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