Boost your storage performance and availability

HP StoreEasy Storage and Double-Take Software

HP StoreEasy Storage and Double-Take Availability software by Vision Solutions provide an effective solution for facilitating nearly continuous protection and availability of your business data.

Protect your critical data

Businesses constantly increase their reliance on data and computing systems. As a result, the ability to access information and functionality can make the difference between success and failure.

Regardless of the type of data or systems deployed, minimizing data loss and maximizing uptime are essential to maintaining a robust disaster recovery plan. Finding protection and recovery solutions that are affordable, reliable, and don't require complex or expensive infrastructure can be challenging.

HP StoreEasy Storage

HP StoreEasy Storage is an all-inclusive optimized, efficient, secure, and highly available file storage solution that scales from small and medium to enterprise environments.

Chosen by more organizations than any other, HP StoreEasy Storage is number 1 NAS product family within the $5000–15000 USD range in units.[1]

With the fifth generation of StoreEasy Storage family, you can get up to 56 percent more capacity at up to 21 percent better $/GB with 2x faster drive transfer speed,[2] along with up to 25x faster RAID rebuilds for write operations, and up to 9x faster RAID rebuilds for read operations.[3]

[1] IDC Worldwide Quarterly Disk Storage, product brand in units for price bands 2 and 3 combined—Tracker 2014 Q3, December 2014
[2] HP Internal Analysis—internal capacity comparison between the previous generation 1640 vs. the new 1650, January 2015
[3] Based on HP internal testing—For more information, see the HP Smart Storage for HP ProLiant Gen9 servers—Technical white paper
[4] Plan to deploy data deduplication, Microsoft®, October 2013

Optimized: Tailored for file storage

• Preconfigured hardware with the latest generation storage OS for purpose-built file storage

• StoreEasy installation and network configuration wizards simplify installation and prevent configuration errors for faster deployment

• HP StoreEasy Dashboard consolidates all key status information in a single interface

• Best practices driven HP StoreEasy Pool Manager

• HDD bundles make it easier for you to buy, deploy, and provision additional storage capacity over the life of the product

Efficient: Saves you money and time

• Achieve an average of 50–60 percent space savings with granular data deduplication.[4] File sync and share feature enables mobile workers to access their files from anywhere

• Use advanced data management to automatically improve use of resources, comply with data retention policies, and enhance protection of sensitive files

• Consolidate multiple workloads and IT services in a single platform with included support for a broad range of file access protocols

• Reduce your branch office WAN usage with Hosted BranchCache, automatically caching frequently accessed corporate data center files

Secure: Protect your data always

• Protect data while at rest with file system encryption and BitLocker Drive Encryption, and while it is being transferred with SMB encryption and signing

• Use File Classification Infrastructure to dynamically identify files based on sensitivity and implement sophisticated access controls using Active Directory Rights Management Services

• Install and run endpoint protection, such as an antivirus, on the system itself—reducing the cost and complexity of connecting to an external endpoint protection server

• Optional backup software can run natively onboard

Highly available: Prevent user and organization disruption

• Increase uptime with standard features such as nearly continuous health monitoring with HP Active Health System, mirrored OS disks, redundant fans (not available on all models) and power, and advanced memory protection

• Deploy large file systems confidently and leverage file system online self-healing, online verification, and precise and rapid repair that massively reduces downtime from file corruption

• Get support from file storage experts with onsite parts and labor warranty for the system, and software telephone support. For details on HP StoreEasy warranty and support, visit Storage Warranty and HP Technology Services pages

High availability and disaster recovery Solutions

Vision Solutions is the premier provider of software solutions designed to protect data, minimize downtime, and maximize resource availability for the modern data center.

They deliver workload migrations, high availability, disaster recovery, and data sharing—across multiple operating systems, on any hardware and in any physical, virtual, or cloud-based environment.

Utilizing real-time replication, their solutions perform near-zero downtime protection and migration of data, applications, and systems to significantly reduce cost, risk, and resource requirements.

Vision Solutions has been serving enterprises and managed service providers for over 25 years through their portfolio of Double-Take, MIMIX, and iTERA product brands.

Double-Take Availability on HP StoreEasy Storage

Double-Take Availability combined with HP StoreEasy Storage provides state-of-the-art data replication and failover capabilities with highly scalable and secure storage. Double-Take Availability enables protection of either just data or entire workloads on physical, virtual, or cloud-based servers via replication to the same or different types of servers, including clusters. Administrators can choose what to replicate and how much bandwidth is used to synchronize the target replica, allowing them to protect exactly what they want to protect, while reducing their overall business continuity-related storage and network footprint.

Optimized

- **Comprehensive protection for stand-alone or clustered HP StoreEasy Storage environments**
- **Change-based, byte-level replication**
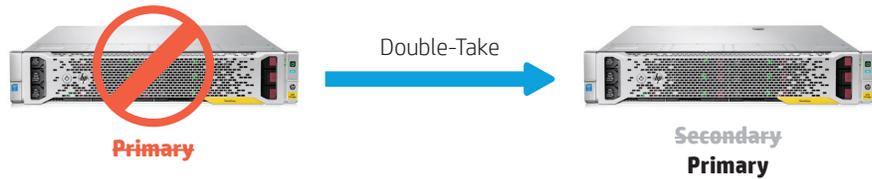- **Bandwidth throttling for network resource management**

Double-Take Availability and HP StoreEasy Storage enable multiple levels of optimization. HP StoreEasy Storage provides optimized file storage that helps eliminate the hassle of configuring the underlying storage hardware or operating system. Double-Take provides asynchronous byte-level replication that sends only the specific changes in real time as they happen on the source. This solution supports sub-second recovery point objectives (RPOs), reduces the resource impact on the production server, and helps minimize the total amount of data sent over the wire.

1 Setup data protection job from source StoreEasy Storage to a target StoreEasy Storage device

2 The target Double-Take agent applies real-time replication updates continuously to keep the data replica synchronized

Double-Take

Primary   **Secondary**

3 At time of failover the Double-Take target can initiate actions such as launching apps or running scripts, or fail over the entire source. Once Double-Take has failed over the target, end users can seamlessly access their production data

Double-Take

~~Primary~~   ~~Secondary~~
Primary

Efficient

- **Real-time replication to fulfill sub-second RPOs**
- **Data compression for efficiency over narrow bandwidth**
- **Works on existing server hardware and WAN infrastructure**

Double-Take Availability offers several features to help reduce the impact of implementing a disaster recovery solution. Bandwidth throttling is built into the solution, giving you the ability to pre-set network resource usage to the desired level and facilitate fair use between multiple applications. Compression is also available to reduce the total amount of data sent over the wire. Both HP StoreEasy Storage and Double-Take Availability enable the use of existing infrastructure to achieve storage and protection goals, facilitating hybrid and evolving data center implementations without the need for costly upgrades.

Highly available

- **Ensure business resiliency with a proven and reliable high availability/disaster recovery provider**
- **Patented write-order consistency ensures the integrity of replicated data**
- **Supports the most stringent RPOs and RTOs**

Double-Take Availability's support for sub-second RPOs make it possible to eliminate data loss when disaster strikes. In addition to ensuring that the most up-to-date data exists on the target replica, Double-Take Availability also provides failover monitoring and processing, which supports extremely low recovery time objectives (RTOs). Whether you are using standalone or clustered HP StoreEasy Storage, the addition of Double-Take Availability offers the ability to meet aggressive recovery objectives and SLAs.

Learn more at
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visionsolutions.com

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Double-Take®
by Vision Solutions