

Brochure

Harness information

HP StoreAll Storage and CommVault Simpana



Research from the Enterprise Strategy Group states that every three to four years, companies will need to store four times as much data as they do today—which equates to nearly 200,000 petabytes of information.

Today's enterprises are experiencing rapid growth in unstructured data, giving rise to unforeseen information and data management challenges, including the need for data retention to comply with organizational standards and governmental regulations. The combination of HP StoreAll Storage and CommVault Simpana software delivers a flexible information management solution—offering simplified management of data across backup and archives. This solution balances cost and performance through seamless and unified archiving of data across multiple storage tiers, including both disk and tape, while enabling tamper-proof data retention. With this solution, businesses can better harness information to reduce risk, improve decision-making, and realize productivity gains.

Coping with “big everything”

As the volume of unstructured, file-based data continues to grow exponentially, legacy storage architectures struggle to keep pace. For example, traditional archiving methods create silos of storage with limited accessibility. Aging systems fail to deliver the right information at the right time within budget. Legacy archiving and storage solutions carry forward the complexities of a bygone era, while forcing flexibility compromises that hinder desired business outcomes.

The complexities and scalability limitations of legacy architectures can stunt the deployment of emerging applications, such as server virtualization, as well as the ability to more effectively harness the power of information. And for today's organizations, this is not just a Big Data problem, but a “big everything” problem—brought on not only by massive growth in unstructured data and ineffective archiving solutions, but also by general content proliferation, the explosion of analytical data, and the rise of massive content depots.



Harnessing the power of information

The combination of HP StoreAll Storage and CommVault Simpana information management software simplifies data management, and gives customers analytical insight into their own data so it can be organized, retained, and effectively policy-managed for informed decision-making. This flexible archiving solution is based on a massively scalable virtual resource pool that seamlessly and transparently combines online, disk-based storage with nearline tape resources to balance cost and performance.

Available deduplication capabilities reduce space and operational costs relating to access and recovery, while integrated data locking features enable secure data retention. HP StoreAll Storage provides an ideal platform for consolidating backup and archives across disk and tape tiers, while CommVault Simpana software delivers powerful, full content indexing. All copies of indexed data are combined into a single, searchable archive for maximum efficiency—giving customers access to information through enterprise search across backup and archives.

The joint HP and CommVault solution overcomes data management challenges by offering the following benefits:

- Simplifies information management with a single interface that completes all data analysis, policy management, single-pass data archiving, and backup
- Balances long-term retention of information through a flexible storage deployment
- Unifies archiving by seamlessly spanning disk and tape tiers, while optimizing data reduction
- Delivers automated, policy-based tiering of data and transparent access to information from anywhere within the storage tier
- Provides advanced data analytics, trend analysis, and reporting for improved policy definition
- Decreases backup and recovery times to meet or improve service-level agreements (SLAs)
- Scales massively to meet changing needs and accommodate data growth
- Drives down costs through intelligent archiving of data from business applications such as Microsoft® Exchange, SharePoint, and other mail and collaborative tools
- Provides advanced access to any managed data, regardless of storage tier, through intelligent archive browse and content index search



Simplifying compliance and the eDiscovery process

With increasing regulatory requirements, organizations are now forced to retain information for longer durations than in the past with full auditable authenticity. Data immutability and the ability to search and retrieve information for both litigation and regulatory audits are absolutely critical. The cost of non-compliance or the inability to produce proof to support legal discovery could be very high.

The joint HP and CommVault solution meets compliance requirements by providing:

- Policy-driven, long-term data retention using integrated write once, read many (WORM) capabilities
- Unified search, retrieval, audit, and workflow of information across backup and archives
- Audit logs documenting the evidence of activities on files or folders within the archive
- Simple interface that empowers a range of end users to search for and manage information for specific use cases without involving IT

HP and CommVault workflow

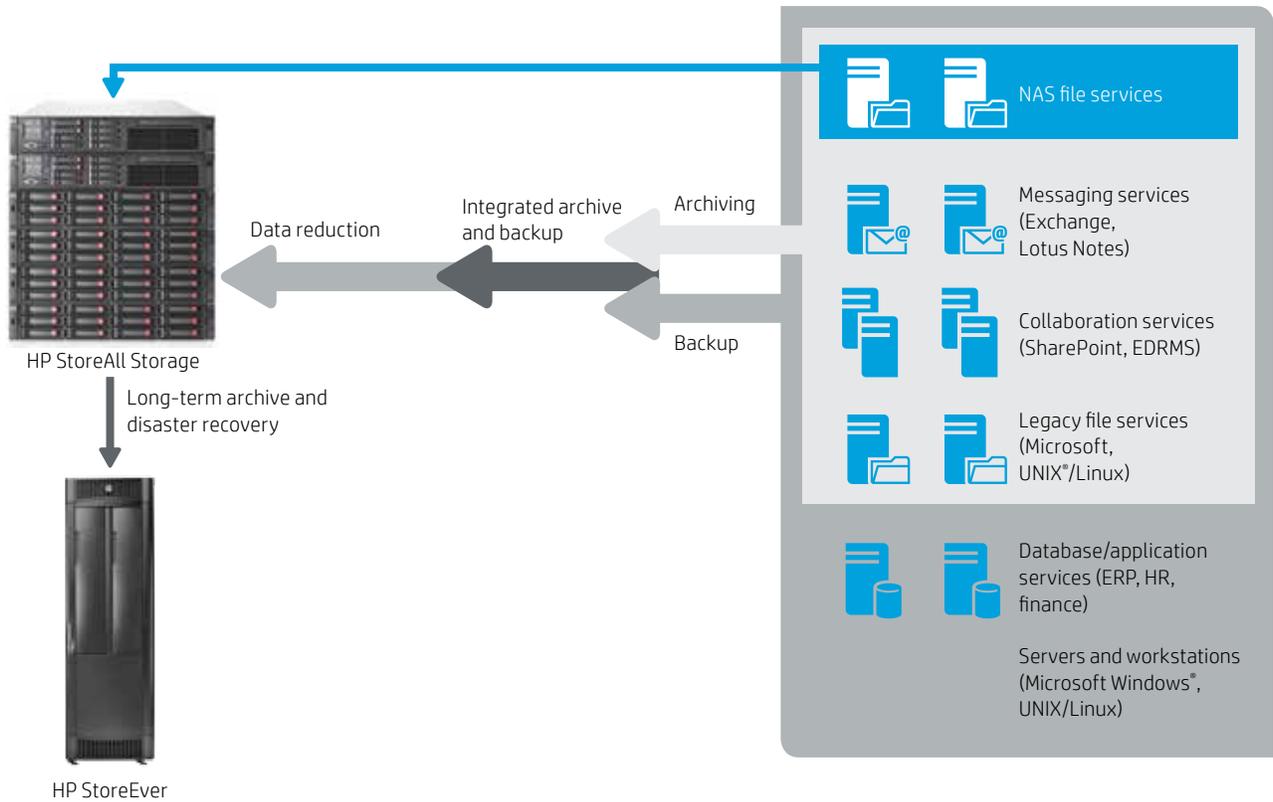
HP StoreAll Storage offers a massively scalable platform for consolidating archives from multiple sources into a common repository that grows on demand. CommVault Simpana software integrates with key business applications, such as Microsoft Exchange and Lotus Domino Messaging Services, collaboration services such as Microsoft SharePoint, and other enterprise-wide file sharing systems across heterogeneous platforms.

As many organizations rethink their data protection strategies due to the tremendous growth of unstructured data, this solution delivers a modern data management approach that provides flexibility in improving recovery SLAs. With the adoption of cloud technologies, there is new shift toward using disk-based data protection. Scalable network attached storage (NAS) filing systems are increasingly becoming the focus of backup strategies because they provide instantaneous access to data, the ability to recover a single file or a complete data set, and high performance levels. Here again, HP StoreAll Storage, with its unique ability to independently scale capacity and performance, offers an ideal converged platform for backing up active data, as well as archiving inactive data sets.

CommVault Simpana software protects customer environments and provides a single management approach and interface that unifies backup and archives—greatly simplifying management and providing more visibility into active and inactive data sets.



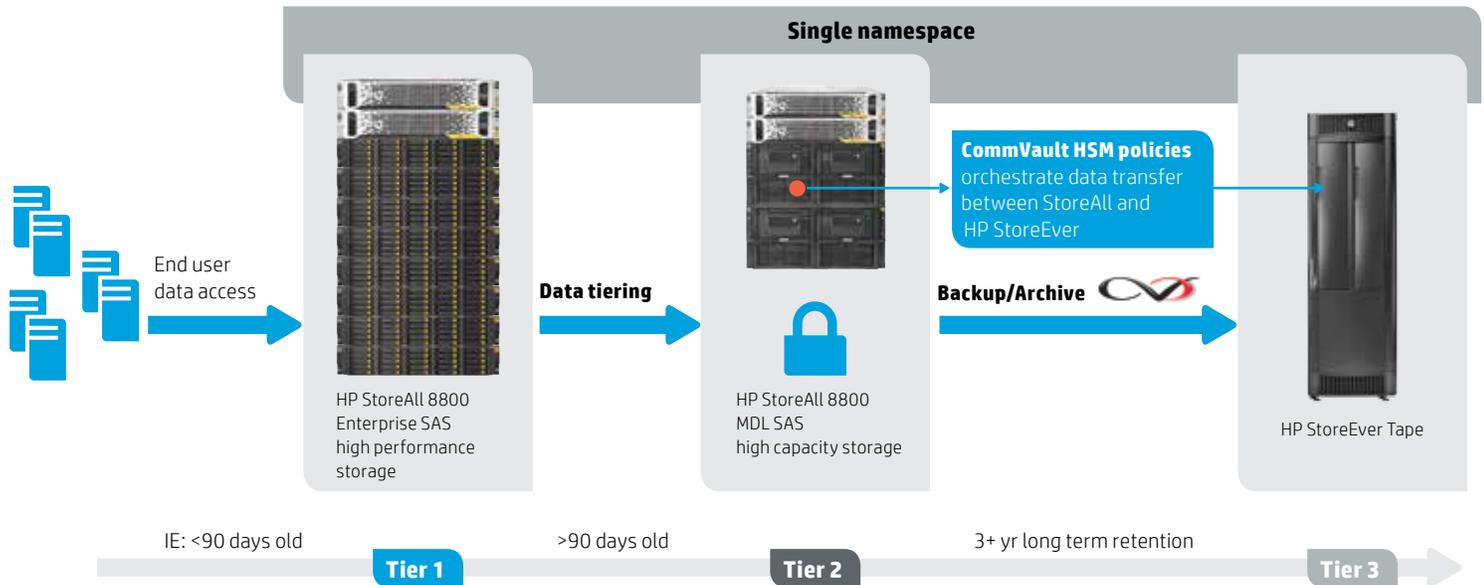
Figure 1. Converged platform for backup and archiving featuring dynamic placement of data across multiple storage tiers



Converged backup and archiving

The next-generation data center is based on a converged Infrastructure. This powerful strategy and architecture integrates all data center resources—servers, storage, networking, management software, services, power, and cooling—onto one flexible, modular, standards-based platform. The result: a simplified data center with pools of virtualized, interoperable resources that can handle any workload, anywhere, anytime. HP Converged Infrastructure is the HP strategy and portfolio to help customers overcome the rigidity and high costs created by IT sprawl. HP is best positioned to deliver infrastructure convergence because we are the only company to offer a full portfolio of standards-based, integrated solutions and services developed specifically to solve the complexities of the data center. As part of HP Converged Infrastructure, HP StoreAll Storage works with CommVault Simpana software to enable rich, policy-driven data placement that balances cost and performance by uniting both disk and tape elements by dynamically placing data sets on the most suitable storage tier. With this solution, storage appears as a single virtual resource pool of disk and nearline HP StoreOnce Tape tiers that can be dynamically altered to balance cost and performance. This gives customers the option to either grow their online disk archive environment to provide improved access speed for archives, or grow the nearline tier to maintain lower cost of storage for long-term data retention. This dynamic solution allows flexible configuration of storage so access to archived content is completely transparent for applications and end users.

Figure 2. Multi-tier archiving solution delivers seamless and transparent access to information regardless of storage tier or medium



CommVault Simpana

CommVault Simpana is a unified data and information management platform that optimizes data tiering and retention, and improves information governance. With a “bottom up” approach to strategic content archiving that embraces built-in tiered storage and multi-platform support—including Microsoft Exchange servers, IBM Lotus systems, and Microsoft SharePoint data—CommVault Simpana delivers on the promise of efficient information lifecycle management. By analyzing and archiving NAS, email, and file system data, CommVault Simpana:

- Reclaims space on primary storage
- Reduces the amount of data to be backed up
- Improves operational efficiency through single-pass approaches to data management
- Allows enterprises to keep more logical data copies to meet or even exceed established recovery-time objectives and recovery-point objectives
- Retains archived data at a granular level for compliance and eDiscovery purposes while maintaining transparent multi-user access

HP StoreAll Storage

HP StoreAll Storage offers the benefits of a modular storage infrastructure with the independent capacity and performance growth of scale-out architecture—features of particular importance to large content archives and performance-intensive applications. Built to be extremely scalable, flexible, and cost-efficient, HP StoreAll Storage accommodates rapid storage growth and increased performance needs with a design and implementation that is:

- **Hyperscale:** Provides massive scalability without complexity. Allows scaling of archives to over 16 PB, with billions of files and objects in a single archive namespace.
- **Harnessed:** Custom metadata tagging, retention policies, WORM, and autonomic protection through constant data validation to ensure data durability.
- **Instant:** HP StoreAll Express Query feature provides ultra-fast search and value extraction at petabyte scale.
- **Economic:** Policy-based tiering and modular architecture to scale down costs of long-term data retention.

Service options

HP offers a full suite of services to implement the archive solution that meets your business objectives. HP Professional Services Backup Transformation Assessment is an end-to-end assessment service that evaluates an existing solution in terms of strategy, architecture, technology, and operational inefficiencies, and helps create an archive solution blueprint that meets your needs.

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HP StoreEver

For customers looking to further optimize the cost of retaining archives, HP StoreEver offers an excellent long-term retention platform. For rarely used content, offline tiers provide excellent cost efficiencies, providing customers with the right balance of cost and performance. The multi-tier HP and CommVault solution provides policy-driven placement of data across all storage tiers, while also providing transparent access to data across the storage pool.

Ready to tackle “big everything?”

The volumes of unstructured data are exploding today, and will continue to do so in the coming years. You can work with HP and CommVault to deploy an elegant information management solution that helps you meet the “big everything” challenge by providing more insight and control over your data.

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