HARNESS

the power of information.

HP X9000 Network Storage Systems and CommVault Simpana

Classify, optimize and protect your data with a consolidated archive that spans disk and tape

Solution brief

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 X9000 Network Storage Systems 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.

The latest research from the Enterprise Strategy Group states that every 3 to 4 years, companies will need to store 4 times as much data as they do today—which equates to nearly 200,000 petabytes of information.

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.

In this environment, driving down costs and improving overall storage efficiency is a huge challenge. The advent of scale-out architectures with the flexibility to handle mixed workloads and respond rapidly to fluctuating demands provide the infrastructure foundation for coping with the "big everything" problem. Information management software adds the ability to classify data, move data between storage tiers to balance cost and performance, and apply policies to intelligently mine, retrieve and retire data as needed.

Harnessing the power of information

The combination of HP X9000 Network Storage Systems 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 X9000 Network Storage Systems provide an ideal platform for consolidating backup and archives across disk and tape tiers, while CommVault Simpana software delivers powerful, full content indexing (CI). 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.

commvault
solving forward

hp

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

- Simplifies information management; a single management interface completes all data analysis, policy management, single-pass data archiving, backup and management
- Balances long-term retention of information through a flexible storage deployment
- Unifies archiving; seamlessly spans 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 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 audit are absolutely critical. The cost of non-compliance or the inability to produce proof to support legal discovery could be very high.

Together, HP X9000 Network Storage Systems and CommVault Simpana provide integrated Write Once, Read Many (WORM) and data retention capabilities to ensure data immutability throughout the content life cycle. Built-in data validation ensures that write-protected data continues to remain unaltered to meet regulatory compliance needs. eDiscovery management is provided proactively for collection, identification (search), preservation, processing and review during a legal matter or incident of discovery. A scalable architecture allows customers to grow capacity on demand and scale performance linearly to support rapid search and retrieval of information to support the eDiscovery process. This multi-tier archiving solution provides a single IT administration console for the provision of discovery capabilities, as well as a single web interface for legal workflow management and preservation capabilities. In essence, all information across online, offline, archive and backup resources is fully managed and accessible for discovery to improve the speed and reduce the cost of legal, compliance and HR-driven enterprise searches.

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

- Policy-driven, long-term data retention using integrated WORM capabilities
- Unified search, retrieval, audit and workflow of information across backup and archives
- Simple interface that empowers a range of end users to search for and manage information for specific use cases without involving IT

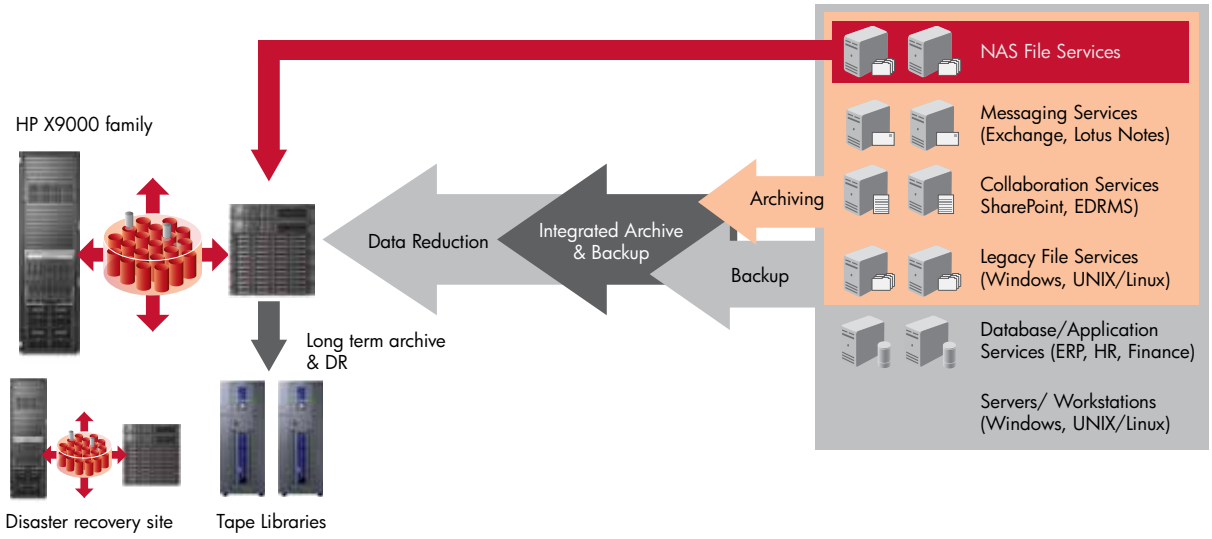
HP and CommVault workflow

HP X9000 Network Storage Systems offer 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 shares across heterogeneous operating system platforms.

As many organizations rethink their data protection strategies due to the tremendous growth in 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 NAS filing systems are increasingly becoming the target of backup 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 X9000 Network Storage Systems, with their unique ability to independently scale capacity and performance, offer an ideal converged platform for backing up active data sets, 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.

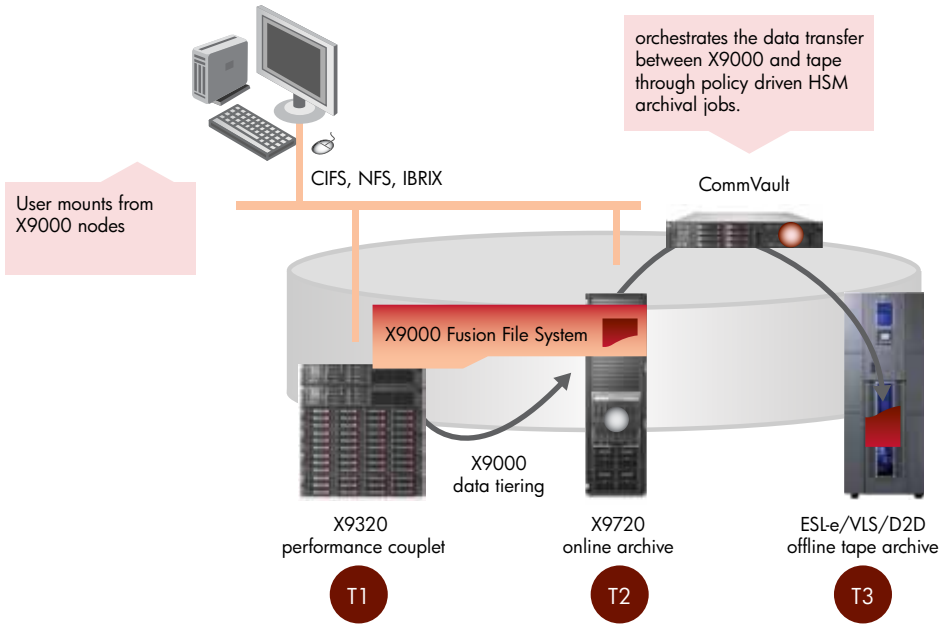
Figure 1: Converged platform for backup and archiving, featuring dynamic placement of data across multiple storage tiers.



Flexible converged archiving configuration

The next-generation data center will be 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.

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



Ready to handle the "big everything" challenge?
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. Using this powerful solution for information archiving, you can benefit from:

- Reduced space and cost of unstructured data management
- Improved business access to information through enterprise search
- Reduced risk and cost of compliance and e-Discovery
- Seamless and transparent archiving across disk and tape tiers
- Storage virtualization to avoid service disruption as hardware technology changes

Resources
To learn more about the information archiving solution from HP and CommVault, please visit www.hp.com/go/storage and www.commvault.com.

As part of the HP Converged Infrastructure, HP X9000 Network Storage Systems work 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 D2D/VLS/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 archive content is completely transparent for applications and end users.

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—Simpana delivers on the promise of efficient information lifecycle management. By analyzing and archiving NAS, e-mail, and file system data, 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 (RTOs) and recovery point objectives (RPOs)
- Retains archived data at a granular level for compliance and eDiscovery purposes, while maintaining transparent multi-user access

HP X9000 Network Storage Systems

HP X9000 Network Storage Systems offer the benefits of a modular storage infrastructure with the independent capacity and performance growth of a scale-out architecture—features of particular importance to large content archives and performance-intensive applications. Built to be extremely scalable, flexible and cost-efficient, X9000 Network Storage Systems accommodate rapid storage growth and increased performance needs with a design and implementation that is:

- **Simple.** Provides modular growth of online archives up to 16 PB in a single archive namespace. A single management point simplifies management of all content in the archive. Standards-based data access to archives removes vendor lock-in present with proprietary APIs.
- **Efficient.** Saves cost by moving less frequently used data to lower cost storage tiers, including tape.
- **Adaptable.** Starts small and grows on demand. Non-disruptive technology upgrades eliminate external migrations and downtime.

HP StorOnce D2D, VLS and tape

For customers looking to further optimize the cost of retaining archives, HP offers numerous products including D2D, VLS and tape systems. For rarely used content, these nearline 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.

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 (BTA) is an end-to-end assessment service that evaluates an existing solution in terms of strategy, architecture, technology and operational inefficiencies, as well as helps create an archive solution blueprint that meets your needs.

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