

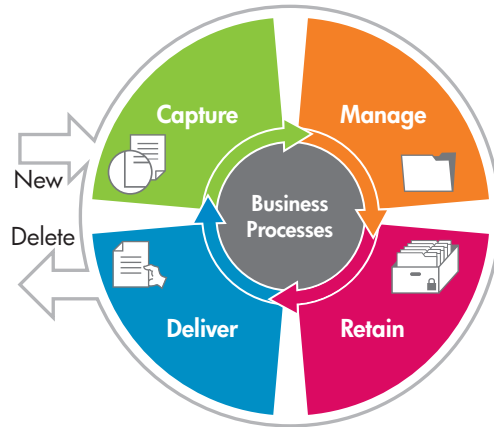


HP Information Lifecycle Management A technology perspective



For today's problems and tomorrow's challenges, HP ILM Solutions help you capitalize on business information to gain competitive advantage.

Figure 1
HP ILM solution methodology



Today's business environment is one where information rules—it is the key to your organization's success. The ability to access important business information can make the difference in becoming a market leader. And while the volume of e-mail, files and databases grows at an unprecedented rate, the technologies used to manage this data changes every 12-18 months. In addition to these IT issues, aging media and applications threaten to render archived information irretrievable.

Compliance is another issue that has become an IT challenge across all industries. Corporate governance and regulations such as Sarbanes-Oxley, HIPPA and Basel II require organizations to retain information for longer periods of time while the business requires this same information remain accessible according to its business relevance—and that relevance can quickly change. For example, potential compliance audits and legal action require that enterprises provide quick access to specific information stored in very large archives—a complex and time-consuming task under the best of circumstances.

You are at the center of ensuring that information is accessible and available to your users when they need it and how they need it. You're chartered with managing growing volumes of information with increasing compliance demands and ever more stringent Service Level Agreements (SLAs) all while your budget and other resources remain stagnant or shrink.

An Information Lifecycle Management (ILM) strategy can help you meet these challenges. And HP is here to help you with a comprehensive ILM portfolio of hardware, software and services to better capture, manage, retain and deliver the information on which your organization relies.

ILM that meets your needs

HP offers fully comprehensive ILM solutions—from defining what ILM means to your organization to establishing how ILM can help your organization be more effective to complete implementation of the associated technologies.

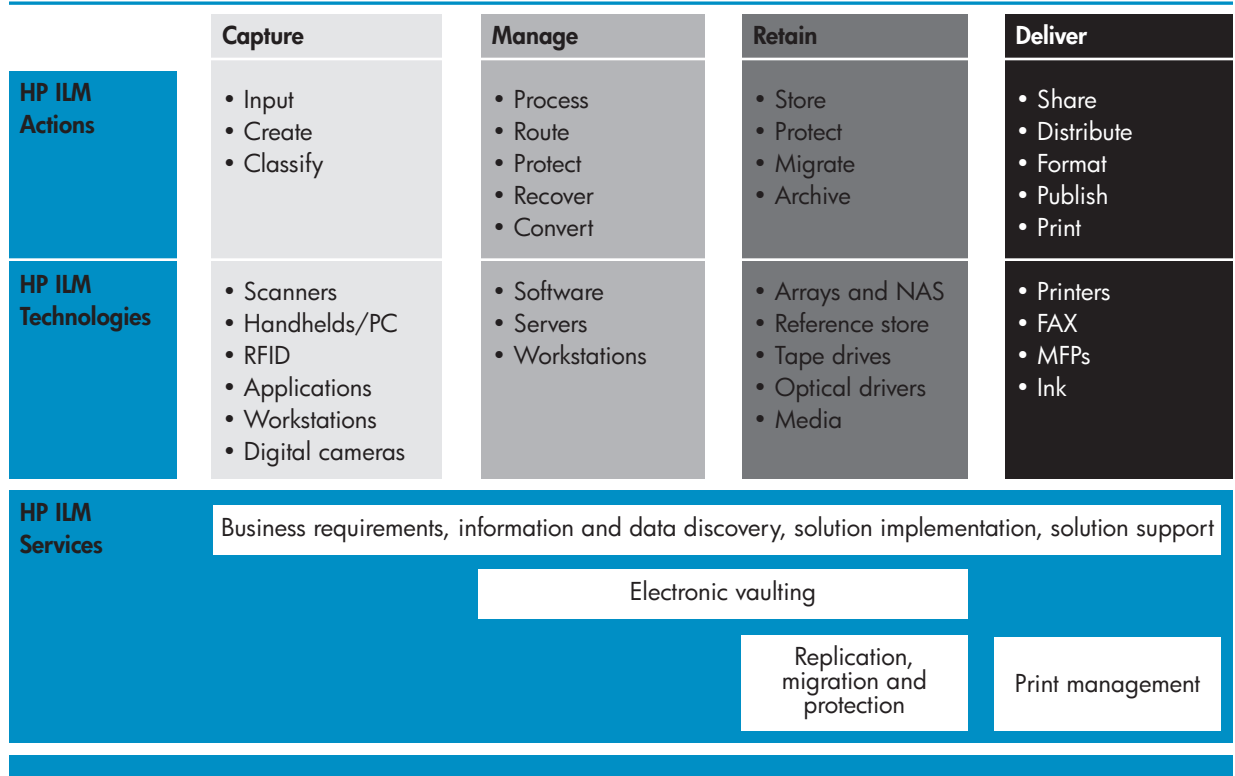
HP utilizes a variety of technologies—both conventional and unique—to implement an ILM solution tailored to your needs. Leveraging deep application and information management expertise as well as extensive partner collaboration, HP provides integrated applications, tiered storage, a full suite of services, and information capture, manage, retention and delivery solutions. End-to-end management across all server and storage systems, as well as industry leading business critical capabilities, make HP's ILM solutions highly robust and easy to deploy. HP also takes the complexity out of deploying ILM solutions with a dedicated consulting practice.

HP's experience can help you successfully solve today's issues and tomorrow's unknown challenges. A properly implemented ILM strategy can allow you to access any information, any time, from any authorized location as well as search, retrieve and communicate information across applications and information repositories from multiple devices or applications. Further, ILM can help you reduce the cost of managing ever-increasing amounts of data while simultaneously transforming it into relevant, accessible business information.

Information where and when you need it

HP ILM solutions help ensure your information is stored efficiently, cost-effectively and accurately based your unique business needs. HP is able to offer this by working closely with you to evaluate your requirements and create a system to meet your needs today while enabling your system to grow flexibly as your needs change.

Figure 2
HP ILM actions and capabilities



Capture all of your critical information

HP helps you capture more than digital data. Using HP multi-function printers, HP Digital Senders and HP StorageWorks software and devices, you can capture paper-based information and send it directly to your enterprise database and applications, share electronic copies of paper documents quickly and archive them efficiently. Additionally, you can improve your compliance and reduce litigation exposure through highly reliable document capture, indexing and tracking, and secure authentication of users through industry-leading security standards.

HP AutoStore transforms paper-based data into digital information that can then be managed electronically to more efficiently and cost effectively meet business and compliance needs. It digitally captures, processes and routes paper-based data to multiple destinations, including tiered storage, archives and document management systems as well as your standard work flow processes

Manage information effectively and efficiently

Protecting and managing information are fundamental storage tasks but they are also important elements in an ILM strategy. An efficient protection process will automatically provide mechanisms to help ensure that information is not inadvertently destroyed or accessed by non-authorized applications or individuals while efficient

management will enable you to ensure your ILM infrastructure is optimized, providing substantial time and cost savings.

HP StorageWorks Continuous Information Capture (CIC) complements HP Data Protector's enterprise-wide data protection and disaster recovery capabilities. In the event of corruption or a hardware failure, HP CIC enables you to quickly and efficiently roll-back key database and application environments to virtually any previous point in time.

After a failure has occurred, pick a roll-back point. HP CIC rapidly creates and presents a virtual snapshot—snapshots need not be created in advance. And because virtual snapshots are created and maintained away from application servers, processing tasks, such as testing or analysis, are much more efficient. You can ensure that critical information is available while you lower your backup and management costs.

HP OpenView Storage Data Protector simplifies the use of complex backup and recovery procedures with the fastest installation, automated routine tasks and easy-to-use features. HP Data Protector is a scalable data management solution that automates high performance backup and recovery, from disk or tape, over unlimited distances, ensuring 24x7 business operations and maximized IT resources. Support for dozens of applications and platforms ensures that you can appropriately and effectively protect information at any stage in the information lifecycle.

“Growing volumes of e-mail were stretching our computer systems to the limit, with the result that it was becoming increasingly costly to manage storage, backup and disaster recovery. Information retrieval was also a problem: it was taking more and more time to search through past e-mails to recover a particular business-critical communication.”

—Richard Hall
CODA Group

HP Storage Essentials delivers integrated heterogeneous functionality for storage network (Direct Attached Storage/DAS, Storage Area Network/SAN, Network-Attached Storage/NAS) management, storage resource management, provisioning and application infrastructure monitoring. When you use HP Storage Essentials, mundane tasks such as discovery, reporting, event management, authentication, authorization and centralization of license management can become automated. As a result, you not only get the most out of your ILM infrastructure, you will have the time to focus on improving and extending your ILM strategy.

Retain information based on your business needs

Tiered storage

Tiered storage is one of the many solutions to help you design an ILM strategy that is right for you. Tiered storage is essentially the assignment of different categories of data to different types of storage devices. These categories can be based on the levels of protection needed, performance requirements, frequency of use, cost and other considerations unique to your business.

HP ILM tiered storage solutions enable you to automatically move information to a variety of storage tiers of varying cost, performance, and data accessibility aligned to your information needs. HP offers technologies that address online, nearline and offline storage tiers with a variety storage devices including high performance disk arrays, storage servers, lower cost/high capacity arrays, active archive, tape and magneto optical storage. Each of these tiers supports storage policies relating to the capture, management, retention and delivery of information—including data handling, backup, recovery, retention periods and retrieval policies.

Only HP offers a complete portfolio of storage technologies and solutions that align and evolve with changing

business requirements—while supporting the level of accessibility you need for data now and in the future.

Archiving

Archiving data is another key element in an ILM strategy. An archive is a collection of data that is maintained as a long-term record of a business, application or information state. While archives are typically kept for auditing, regulatory compliance and future analysis or reference purposes rather than for application or data recovery, HP has extended the role of archiving by providing technologies that help you use archives for specific application performance and recovery purposes. Only HP provides technologies and services that can help you implement a cost effective retention environment that can lower costs without compromising availability needs while also helping to improve performance.

E-mail archiving

Merging hardware and software into an easy-to-manage archiving appliance that’s scalable, HP Reference Information Storage System (RISS) is a unique solution that delivers high-performance search and retrieval of critical information while enabling you to manage e-mail and associated documents in compliance with the growing number of regulations around the world. An active archiving platform that transforms unstructured data into exploitable information, HP RISS enables you to find and retrieve critical archived information in seconds.

Figure 3
HP ILM tiered storage

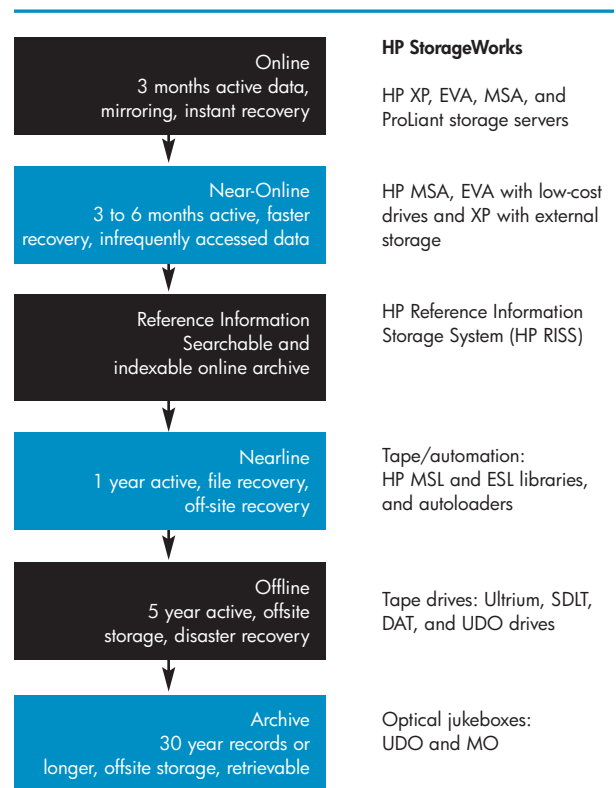
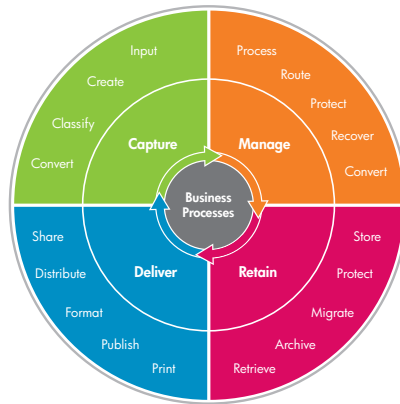


Figure 4
Expanded HP ILM solution capabilities



HP RISS is an object model disk-based archiving and compliance platform designed for high scale enterprise deployments. Delivered in a rack-mount appliance, HP RISS leverages industry standard HP ProLiant servers with their own internal SATA storage. HP provides a complete end-to-end e-mail archiving solution by integrating HP RISS with HP Reference Information Manager for Messaging (RIM), HP's e-mail archiving application with support for MS Exchange and Lotus Notes.

Database archiving

HP StorageWorks Reference Information Manager (RIM) for Databases is a software tool that delivers comprehensive database archiving capabilities for managing your accelerating database growth. Further, it improves the performance and availability of mission-critical ERP and CRM applications almost immediately. HP StorageWorks RIM for Databases applies ILM policies to archive and remove precise sets of rarely accessed data from overloaded production databases, storing them on a variety of lower-cost storage arrays such as the HP MSA 1500 array or HP EVA4000 (with your choice of Serial Advanced Technology Attachment/SATA or Fibre Advanced Technology Attachment/FATA drives).

File archiving

HP StorageWorks File Migration Agent (FMA) software offers a technologically innovative approach that helps organizations manage more data per administrator. As a complementary solution to traditional backup and recovery, HP StorageWorks File Migration Agent even helps speed backups because there is less data to back up and allows faster volume-level restores.

HP FMA simplifies Windows®-based file, web and application server administration through automatic policy-based file migration and archiving to popular storage targets, including HP StorageWorks Reference Information Storage System, HP StorageWorks File System Extender and NAS devices, via Common Internet File System.

HP StorageWorks File System Extender (FSE) is a new generation modular file archiving system designed to help manage large amounts of stored file system data via seamless archive to disk and/or tape. HP FSE helps make the management of massive amounts of stored file system data simpler and more cost effective. Using policies that reflect business requirements, FSE acts as a virtual archive, automatically moving files between production storage and secondary storage. In addition, the migrating file system can be upgraded to WORM, making FSE an attractive addition to your compliance strategy.

Deliver information when and where you need it

HP ILM Information Delivery solutions deliver information quickly and reliably to your customers, partners, suppliers or back to your business in the desired format while helping to boost productivity and lower total cost of ownership. Incorporating printing and other technologies, this unique portfolio of solutions enables you to deliver information to any destination including print, fax, e-mail, web or file. For example, the HP Output Server provides one common point of management and control for all document delivery. This means you get reliable, timely and confirmed delivery of business-critical reports and documents provided in the preferred user format.

Another example of HP's delivery technology is HP's Medical Archive Solution (MAS). HP MAS enables imaging centers and hospitals to securely store and ensure the availability of rapidly growing volumes of reference images. Utilizing a streaming transport and dynamic load balancing across computing resources—storage, bandwidth and CPU—to optimize performance, HP MAS quickly delivers medical images and other medical information to radiologists, technicians and other medical professionals.

"HP Output Server continues to give our IT administrators control over, and visibility into, the entire output management process, effectively eliminating confusion in the warehouses, lost orders and missed product deliveries."

—Jeff Winston, Vice President of I.S. Technology & Engineering, Allergan, Inc.

“With an HP Tiered Storage solution and HP Critical Services, I can go to sleep and not worry about getting calls in the middle of the night.”

—Sheldon Hinkson
Children’s Hospital and
Health Center of San Diego



Services simplify ILM

HP Services help organizations make the most of ILM by helping them implement the right technologies at the right time to meet to meet their specific information management goals. HP accomplishes this through a broad portfolio of ILM services that span every stage of an ILM strategy—from needs analysis and strategy development through solution planning and design, implementation, and ongoing management and support.

HP can assess your current business needs and objectives to help you understand the impact and advantages of moving to a specific ILM-related technology or process, determine compliance requirements for data retention policies and data archival and retrieval processes, gauge ILM-related service-level requirements, and conduct TCO/ROI analysis for financial decision support. HP ILM services include our ILM Discovery Workshop, ILM Business Requirement and Business Value Analysis, ILM Data and Information Discovery HP StorageWorks RISS and RIM Installation and Startup, Electronic Vaulting, Data Migration and more.

In addition, HP’s broad-based IT Service Management (ITSM) design capabilities are based on the ITIL framework and can incorporate components from multiple vendors. You have the ability and flexibility to utilize existing systems and expand using your preferred vendors. HP has decades of experience delivering heterogeneous environment services, to provide you with the best possible services and solution.

HP ILM for your enterprise

Only HP sees ILM as a continuous workflow that spans input and output as well as storage, compute and network infrastructures. HP’s cross-infrastructure expertise and enterprise-spanning ILM solutions help ensure that your ILM implementation addresses all of your needs.

HP ILM solutions help you and your organization address the many issues associated with your rapidly growing information and compliance environment. HP’s deep application and information management expertise along with our extensive partnerships has led to the development of a broad portfolio of solutions including integrated applications, tiered storage and information capture, management, retention and delivery systems that leverage both conventional and unique platforms. In addition, HP has services that span every stage of ILM, from needs analysis and strategy development through solution planning and design, implementation, and ongoing management and support.

HP has ILM solutions that help organizations like yours achieve sustained compliance and improve business performance—while managing complex and rapidly growing information. For today’s problems and tomorrow’s challenges, HP ILM Solutions help you capitalize on business information to gain competitive advantage.

For more information

For more information about HP ILM solutions, please contact your local HP representative or visit www.hp.com/go/ilm.



For more information visit www.hp.com/go/ilm

© Copyright 2006 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. Windows is a registered U.S. trademark of Microsoft Corporation and its subsidiaries.

4AA0-4186ENW rev. 1, March 2006

