The ILM Cure for Data Amnesia

HP StorageWorks Reference Information Storage System
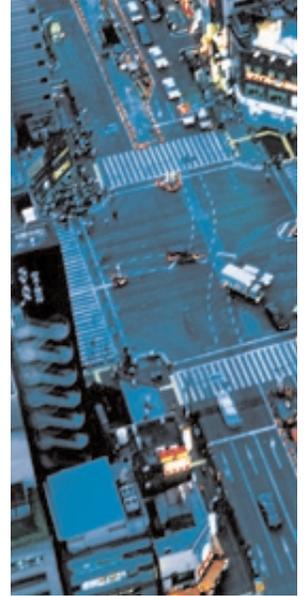
It is Monday morning, you have a critical 9:00 meeting, and you can't find your car keys. You need to make this meeting, but haven't a clue where you left your keys... sound familiar?

We have all been there, and at the moment when you realize you cannot remember where things are, it seems as though a case of amnesia has set in. From time to time, corporations suffer from this phenomenon as well, only in a different way. Data amnesia is costly and can be detrimental to business.

Reference information in the enterprise

When information is no longer being modified, it is classified as reference information and over 50% of today's enterprise primary storage is composed of reference information. Reference information is the fastest growing area in Information Lifecycle Management (ILM) and spans from pervasive e-mail and office documents to specialized check imaging or architectural drawing. The challenge becomes three-fold: to exploit information, manage costs, and comply with regulations using proactive processes that offer viable solutions for future growth. Reference information is the corporate memory,

but it also represents an additional layer of data to be managed by hard-pressed IT organizations.

In most corporations today, e-mail and office documents are poorly organized due to lack of suitable tools offered by the storage infrastructure itself, namely the file systems.

To further compound the issues, a growing amount of reference information is now subject to some form of regulation. The combination of regulatory requirements and poor organization tools lead to challenges for the enterprise such as high total cost of ownership of information management and loss of corporate intellectual capital or even worse, hidden liability.

Over time e-mail has become one of the mainstays of reference information as its use has morphed from an information routing technology to a filing technology for today's knowledge worker. E-mail and the attached files have become the de-facto standard as the primary communication mechanism for both business and government. At the same time, the importance and complexity of e-mail has evolved from a few simple lines of text to complex, business-critical documents that contain proposals, bids, contracts, legal agreements, and other vital documents. E-mail and, to an increasing extent,

E-mail and office documents

Check and document imaging

Medical imaging and patient records

Digital audio and video files

Engineering documenta- tion

FDA documenta- tion
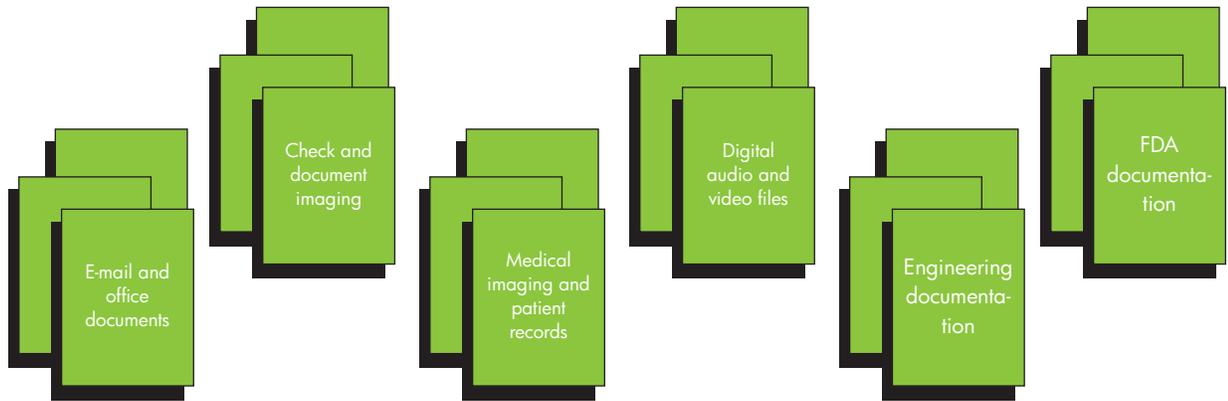
instant messaging is now the corporate memory of how an organization has conducted itself. E-mail, instant messages (IM), and other types of electronic business communications relating to potential litigation must be preserved and available.

So it should come as no surprise that regulatory institutions across a wide range of industries are researching how e-mail, IM, and office documents should be preserved as evidence and available for disclosure. While it is important to note that regulations are becoming increasingly stringent across these industries, the financial services industry is at the forefront of document retention regulations as a result of the SEC Rule 17a-3 and 17a-4.

The corporate memory—introducing HP StorageWorks Reference Information Storage System

HP StorageWorks Reference Information Storage System (RISS) helps you conquer these challenges, providing you an all-in-one, highly scalable, active, and selective archiving solution for storing, searching, and rapidly retrieving reference information. HP StorageWorks Reference Information Storage System reduces costs, mitigates risk, and provides unprecedented accessibility for long-term storage.

HP StorageWorks Reference Information Storage System:

- **Automatically harvests data from primary systems**— reduce information overgrowth and control storage costs

- **Accomplishes high scalability**—from terabytes to petabytes of data without loss of performance

- **Achieves full content indexing and grid computing architecture for rapid search and retrieval**—exploit your information assets

- **Performs time stamping and authentication**—to assist customers with data retention regulations compliance

- **Offers a complete solution**—everything you need from one source: HP

Reference Information Storage System simplifies management and reduces storage costs

At the core of all reference information are issues concerning the volumes of records that must be archived, indexed, and managed. Consider e-mails. Research into corporate e-mail use estimates the average corporate e-mail user sends/receives 76 e-mails daily. For a 25,000-employee enterprise, that means over half billion e-mails are generated in one year. Add attachments and other office productivity files to these numbers and you truly have a "needle in the haystack" scenario. Reference Information Storage System offers the following benefits:

- **Older e-mails archived to Reference Information Storage System**—you are no longer reliant upon mailbox quotas to contain primary storage expense/volume

- **Improved server availability**—Reference Information Storage System archives e-mails reducing server load and allowing servers to run more efficiently

- **Less primary storage is required**—older data is stored on the Reference Information Storage System

Existing systems

A non-integrated solution consists of multiple vendors, rtp, contracts, upgrades, maintenance agreements, and administration tasks

	Existing systems			Reference Information Storage System
	E-mail			E-mail
Application middleware	Storage and archiving middleware			HP StorageWorks Reference Information Storage System Appliance
Access software	File system	Database	Search engine	
Storage software	Hierarchical storage management (HSM)	CAS software	Servers	
Industry standard hardware	Tape library	CAS hardware	DAS, SAN or NAS storage	

HP StorageWorks Reference Information Storage System is the only archiving product in the industry to deliver a total solution that includes all the hardware, software, and services needed to protect your reference information.

- **True cost savings**—increases in users and volumes no longer require increases in mail servers and related storage

- **All data on Reference Information Storage System is protected**—you no longer need to manage local personal files that may or may not be backed up

- **Faster, smaller backups**—reduces backup time liberating resources for more value-added tasks and lowers administrative costs

Reference Information Storage System reduces risk

Some companies operate in heavily regulated industries and some do not. But all organizations are waking up to the fact that badly managed data is a corporate risk. What is needed is greater control. Whether the data is needed to defend a lawsuit or prove compliance with a data retention regulation or whether accurate records preservation is just a case of good corporate governance, HP StorageWorks Reference Information Storage System can help. HP Reference Information Storage System includes multiple features for data management risk reduction including the automated migration of data to the archive, the protection of the data with time stamps and digital signatures, and the ability to provide certified proof that the data has not been tampered with. Moreover, any data in the archive cannot be deleted or modified until the end of its retention period (at the end of this period, the document is erased and the disk space recycled for future use).

The most powerful search and recovery tools available

Archiving is not just about putting data away, it is about getting information back out. When you lose your keys, you think to yourself, "OK let's backtrack and I will find them", narrowing the possibilities of where you may have placed them.

The HP StorageWorks Reference Information Storage System combines advanced indexing with a grid computing storage architecture based on a concept of smart cells. For high performance, HP StorageWorks Reference Information Storage System utilizes multiple smart storage cells in a grid computing architecture to provide unprecedented response times even for complex inquiries. Each smart storage cell combines both computing intelligence and storage capacity so that as demand grows, additional storage smart cells can be added without disruption and without performance degradation.

These innovations allow HP Reference Information Storage System to deliver the most powerful search and retrieval capability in the industry.

HP StorageWorks ILM services

Information Lifecycle Management is about business process, company strategy and tools.

HP Services for ILM are focused around a consulting and deployment team that has expertise across the IT infrastructure. ILM has strong process content and HP Services' leadership in IT Service Management design containing multi-vendor components in a heterogeneous environment is a strong driver for successful implementations.

HP offers a range of consulting and deployment services designed to integrate into the customer environment. These services help customers to identify specific archiving and compliance requirements, system design of reference information use, and implementation and configuration. The resulting solutions tightly integrate into customer's e-mail and document management environments.

A total archiving solution

HP StorageWorks Reference Information Storage System is the only archiving product in the industry to deliver a total solution that includes all the hardware, software, and services needed to protect your reference information. No other vendor can offer this—they only offer components. The installation of HP solution involves minimal disruption or reconfiguration to existing applications.

HP StorageWorks ILM strategy

The HP StorageWorks product family is unique in that it introduces storage solutions for the whole information life cycle. Terabytes of inaccessible data are transformed into a corporate knowledge asset. The underlying philosophy of ILM is to utilize current proven, reliable, and scalable solutions and architectures. HP takes a solutions approach to give our customers application transparency and accelerated time to value.

For more information

For more information on ILM and Reference Information Storage System, visit **www.hp.com/go/storageworks/riss**

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